

**Europass  
Curriculum Vitae**



**Personal information**

First name / Surname **Ion SANDU**  
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 Fax(es) 40232214816  
 E-mail [Ion.sandu@uaic.ro](mailto:Ion.sandu@uaic.ro), or [sandu\\_i03@yahoo.com](mailto:sandu_i03@yahoo.com)  
 Nationality Romanian  
 Date of birth 03.01.1952  
 Gender Male

**Occupational field** **Scientific Conservation of Cultural and Natural Heritage, Environmental Science and Engineering, Materials Science and Technology, Inventics**

**Work experience**

Dates ( <i>from – to</i> )	01.10.1990 – PRESENT
Occupation or position held	Professor,
Main activities and responsibilities	Director of Laboratory Scientific Investigation and Discipline titular
Name and address of employer	"Al. I. Cuza" University of Iasi, 11 B-ld Carol I, Iasi, Romania
Type of business or sector	Department of Conservation of Cultural Heritage
Dates ( <i>from – to</i> )	01.10.2009 –Present
Occupation or position held	Professor
Main activities and responsibilities	Supervisor, Thesis coordinator, Tutor and discipline titular
Name and address of employer	Environmental Science PhD School (Science of Conservation of the Cultural Heritage and Biodiversity), "Al. I.Cuza" University of Iasi, B-dul Carol I, Iasi, Romania
Type of business or sector	Scientific Conservation and Investigation of Works of Art and Historic Monuments, and Environmental Science and Engineering/PhD in Science of Conservation and Environmental Science and Engineering
Dates ( <i>from – to</i> )	01.10.2010 –Present
Occupation or position held	Professor
Main activities and responsibilities	Supervisor Project, Thesis coordinator, Tutor and discipline titular

<i>Name and address of employer</i>	Forensic Science Master School "Al. I.Cuza" University of Iasi, B-dul Carol I, Iasi, Romania and "Al.I.Cuza" Police Academy, .Aleea Privighetorilor, Bucharest, Romania
<i>Type of business or sector</i>	A Forensic Science Treasures and Counterfeit Documents (Scientific Conservation and Investigation of Works of Art and Historic Monuments Archeological Sites and Old Documents -Forgery and use of forgery), Conservation Materials Traces etc.
<i>Dates (from – to)</i>	01.10.2006 – 01.10.2010
<i>Occupation or position held</i>	Director Partner Project
<i>Main activities and responsibilities</i>	Supervisor Project, Thesis coordinator, Tutor and discipline titular
<i>Name and address of employer</i>	EPISCON (European PhD in Science for Conservation), Studies University of Bologna/"Al. I.Cuza" University of Iasi, B-dul Carol I, Iasi, Romania
<i>Type of business or sector</i>	Scientific Investigation and Conservation of Cultural Heritage Department
<i>Dates (from – to)</i>	01.10.2005 –Present
<i>Occupation or position held</i>	Director
<i>Main activities and responsibilities</i>	Supervisor research projects and themes,
<i>Name and address of employer</i>	"Al. I.Cuza" University of Iasi, B-dul Carol I, Iasi, Romania
<i>Type of business or sector</i>	Laboratory of Scientific Investigation and Conservation of Cultural Heritage, ARHEOINVEST Research and Education Interdisciplinary Platform
<i>Dates (from – to)</i>	01.10.2000– 01.07.2006
<i>Occupation or position held</i>	Professor
<i>Main activities and responsibilities</i>	Master course: Conservation of Monuments
<i>Name and address of employer</i>	"Gh. Asachi" Technical University of Iasi, B-dul D. Mangeron 71, Iasi, Romania
<i>Type of business or sector</i>	Department of Civilian Constructions and Architecture
<i>Dates (from – to)</i>	01.03.1980 – 31.09.1990
<i>Occupation or position held</i>	Assist. Prof.
<i>Main activities and responsibilities</i>	Discipline titular Supervisor Project and Thesis coordinator
<i>Name and address of employer</i>	"Gh. Asachi" Technical University of Iasi, B-dul D. Mangeron 71, Iasi, Romania
<i>Type of business or sector</i>	Department of Inorganic Chemistry
<i>Dates (from – to)</i>	03.11.2003 – PRESENT
<i>Occupation or position held</i>	President
<i>Main activities and responsibilities</i>	Manager and Supervisor Project
<i>Name and address of employer</i>	Romanian Inventors Forum, Iasi, Romania
<i>Type of business or sector</i>	Research and Innovation Department
<b>Education and training</b>	
<i>Dates</i>	1976 – 1984 Ph.D. Programme "Gh. Asachi" Technical University of Iasi, Romania 1975-1976: Master - "Gh. Asachi" Technical University of Iasi <b>Specialization: Inorganic Chemistry</b> 1971 – 1975: "Gh. Asachi" Technical University of Iasi <b>Specialization: Inorganic Chemistry</b> 1967- 1971: High-School – Moinesti, Bacau, Romania
<i>Title of qualification awarded</i>	Ph.D degree in Chemistry

**Personal skills and competences**

Mother tongue(s)

**Romanian**

Other language(s)

Self-assessment

European level (\*)

**Russian Language**

**French Language**

**Italian Language**

Understanding		Speaking		Writing			
Listening		Reading		Spoken interaction		Spoken production	
B2	B1	B2	B1	B2	B1	B2	B1
B2	B1	B2	B1	B2	B1	B2	B1
A2	B1	B1	B2	A2	B1	A2	B1

**Social skills and competences**

Team work: I have worked in various types of teams from research teams.  
 Very good communication skills, team building gifts;  
 Creative, high capacity of synthesis of interdisciplinary knowledge, non-discriminating people of different cultures;  
 Amazing capacity to receive new information, strong sense of duty, hard-working.

**Organisational skills and competences**

Good manager (Founding member of two National Institutes for Research and two Academic Associations, 116 Research Projects as Director)  
 European Expert in Science for Conservation  
 Great capacity for developing laboratories (more than 16).  
 Organization of the Technical Creativity Exhibitions (5)  
 Organization of International Symposium in Cultural Heritage (7)

**Computer skills and competences**

Office 2007, Adobe Photoshop,

**Other skills and competences**

Capacity for developing new devices, methods and techniques for laboratory (36 patents in field)  
 Good capacity for implementation of new technologies (6 micro production labs and 130 tested patents)  
 Author of wall paintings at two orthodox church  
 Three personal exhibition of paintings and four collective exhibition  
 The graphic at one poetry book  
 Collection keeper  
 Restorer

**Driving licence**

Driving License- B category

**Date:** 01.11.2011

**Signature**



**Author or co-author** of 44 Books, 520 scientific papers (182 abroad), 136 patents (22 abroad), 526 international scientific communications and 272 national.

**Director or coordinator of national research programme** 110 projects, 6 European projects and research team member in 66 national projects;

**Member in International Juries** (ARCHIMEDES - Moscow, 2003-2011, NEW-TIMES - Sevastopol, 2006-2011, INFOINVENT - Kishinev, 2005-2011, INOVA – Zagreb, 2008-2011, INVENTICA-Bucharest, 2006-2010, PROINVENT - Cluj Napoca, 2006-2010, EUROINVENT – Iasi, 2009-2011);

**Member of Scientific Boards Journals** (Rev.Chim. Bucharest, International Journal of Conservation Science, Recent Patent on Corrosion Science Journal, Open Journal of Archeometry, Egyptian Journal of Archaeological and Restoration Studies; International Journal of Criminal Investigation, Chemia Sibiu, Scientifical Annals "Al. I. Cuza" University Iasi, Scientific Annals of University Galati, Inventic Revue Iasi, Danubius Journal Galati, Research Revue Iasi, Patrimony Book, „Al.I.Cuza” University Publishing House, - Coordinated Series. etc.);

**Doctor Honoris Causa** (Sofia 2006),

**International Research Networks** (UNESCO FORUM, University and Cultural Heritage - Valencia, Chair Unesco, Environmental Engineering and Scientific Conservation Cultural Heritage - Iasi, International Innovation Club ARCHIMEDES - Moscow),

**Member of National and European Expert Group** in Evaluation of the Technical Creativity and Scientifically Expertise, **Main Expert in Impact Studies**, Environment Survey and Conformation and Ecological Rehabilitation Plans Founding-member of the Romanian Scientist Association (1984 - 2011);

**Member of International Profesional Society (16)**

**Prises, Awards (108), Medals (391) and Diplomas (114)**, 32 first Prize in national invention exhibitions (1980-1989), 212 gold medals, 119 silver medals and 60 bronze medals at international exhibitions of inventions (Barcelona, Pittsburgh, Geneva, Brussels, Moscow, London, Barcelona, Zagreb, Varna, Budapest, Taipei, Novi Sad, Kishinev, Sevastopol, Bucharest and Iasi).

#### **Additional information**

**Excellent results in science of conservation and chemical research**

The three structures of metal artefacts patina theory building (primary, secondary and contamination structures); degradation and deterioration effects theory building by micro and macro structural destruction (physical state) and material alteration (chemical nature) process. The normal range of variation of hydric equilibrium of wood theory building, applied in archaeometry and impact studies for preservation process.

Solion theory building for NaCl aerosols.

Electrochemical Conversion of Energy, Science of materials implied in electronics, energetic, restoration and preservation of the cultural national values and biotechnology.

Non-conventional procedures for the synthesis and the physic-structural, chemical and electrochemical characterization of some new materials with technical implications ("Layer-on-layer" sequential coprecipitation by ionic exchange by using the bionics system model; obtaining and characterization of the structures with stratified atomic networks with phonon-absorbent, piro- and/or photoelectric proprieties, proton conduction by the "tunneling effect" in the van der Waals bands of the compacts hexagonal marginal structures of the chalcogenides type from the stratified atoms networks, modification of the "proton-electron" mechanism for the reduction of the monophasic redox couples by there passing in reversible diphasic redox couples).

Technical creativity (invents) in chemistry, metallurgy, chemical engineering, biotechnology and keeping of the cultural national values.

**Titular course of Chemistry** (general chemistry, descriptive inorganic and organic chemistry), Redox Systems in the Energy Conversion, Invents in Chemistry, Metals Chemistry, Structure and Reactivity of the Compounds, Scientific Investigation of Works of Art, Science of Materials for Restoring and Keeping of the Cultural National Values; Etiopatology of Works of Art, Metal Restoration, Photography and Photogrammetry; Conventional Representation in Restoration.

## Annexes

**Author or co-author** at 40 Books, 470 scientific papers (152 abroad), 130 patents (20 abroad) 451 International Scientifically communication and 262 National. Coordinator of 116 scientific grants.

**Director of National Research Programme** 110 projects, 6 European projects and research team member in 66 National Projects;

**Member in International Juries** (ARCHIMEDES - Moscow, 2003-2011, NEW-TIMES - Sevastopol, 2006-2011, INFOINVENT - Kishinev, 2005-2011, INOVA – Zagreb, 2008-2011, INVENTICA-Bucharest, 2006-2010, PROINVENT - Cluj Napoca, 2006-2010, EUROINVENT – Iasi, 2009-2011);

**Member of Scientific Boards Journals** (Rev.Chim. Bucharest, International Journal of Conservation Science, Recent Patent on Corrosion Science Journal, Open Journal of Archeometry, Egyptian Journal of Archaeological and Restoration Studies; International Journal of Criminal Investigation, Chemia Sibiu, Scientific Annals "Al. I. Cuza" University Iasi, Scientific Annals of University Galati, Inventic Revue Iasi, Danubius Journal Galati, Research Revue Iasi, Patrimony Book, „Al.I.Cuza" University Publishing House, - Coordinated Series. etc.);

**Medals: 371 medals, 105 Awards,**

**Doctor Honoris Causa** (Sofia 2006),

**International Research Networks** (UNESCO FORUM, University and Cultural Heritage - Valencia, Chair Unesco, Environmental Engineering and Scientific Conservation Cultural Heritage - Iasi, International Innovation Club ARCHIMEDES - Moscow),

**Member of National and European Expert Group** in Evaluation of the Technical Creativity and Scientifically Expertise,

Main Expert in Impact Studies, Environment Survey and Conformation and Ecological Rehabilitation Plans

**Member of Professional Society:**

Founding-member of the Romanian Scientist Association (1984 - 2011);

Active Member of The New York Academy of Sciences (1984-1996);

Member of the Invents Committee of the Romanian Academy (1988 - 2011);

Founding-member of Romanian Invents Society (1991 - 2003);

Member of the EURISTIKA International Creativity Association (1991, Volgograd);

Member of the Physical-Chemistry Society (1991 - 2011);

Corresponding Member of Osterreichische Albert Schweitzer-Gesellschaft, Vienna (1995);

Member of Institute for International Relations and Intercultural Studies, Alabama University (1997);

Honorary Member of Osterreichische Albert Schweitzer-Gesellschaft, Vienna (1997);

Honorary Member of The International Cultural Correspondence Institute, Bombay-India (1997);

Honorary Diploma of The Parthasarathy International Cultural Academy, Madras-India (1997);

Honorary Diploma of The "St.Andrew" Assoc., Scotland (1998);

Member of the Romanian Chemistry Society (2000 - 2011);

Member of the Romanian Scientific Investigation of Art Society (2002);

In of the European Extra LabSTECH Institution I am representative for "Al. I. Cuza" University (2001 - 2003);

President of Romanian Inventors Forum (2003-2011);

**Prises, Awards (105), Medals (371) and Diplomas (114):**

32 first Prize at the National Invention Exhibition (1980-1989),

202 gold medals, 111 silver medals and 59 bronze medals at International Exhibition of Invents (Barcelona, Pittsburgh, Geneva, Brussels, Moscow, London, Barcelona, Zagreb, Varna, Budapest, Taipei, Novi Sad, Kishinev, Sevastopol, Bucharest and Iasi):

European Arts Academy, Special Diploma (1993);

"HENRI COANDA" Award, 3-rd, 2-rd and 1-st Classes. (1991-1993);

"STEFAN CEL MARE SI SFANT" Kishinev,, Award 1-st Classes (1994);

"DIMITRIE LEONIDA", Award 1-st Classes (1996);

Parthasarathy International Cultural Academy, Madras - India, Special Award (1997);

Gold ARCHIMEDES, Moskow, GRAND PRIX (2004);

AGEPI, Kishinev, R.Moldova, Honorary Diploma (2002);

AGEPI, Kishinev, R.Moldova, Honorary PRICE (2004);

Chevalier DEGREE of Inventive Merit, Brussels – Belgium (2002);

OFFICER DEGREE of Inventive Merit, Brussels – Belgium (2003);

Commandor DEGREE of Inventive Merit, Brussels – Belgium (2004);

ICEPEC Gold Medal, Moskow (2005);

Gold ARCHIMEDES, Moskow, GRAND PRIX (2005).

COMMANDOR DEGREE "G. Constantinescu" – Cluj-Napoca (2005);

"PETRU PONI" Award 1st Class – Iasi (2005)

Excelency Dipoma for Culture – Bucharest (2005)

Prize of National Authority for Research – MedC, Bucharest (2005),

Great Officier DEGREE of Inventive Merit, Brussels – Belgium (2005)

Founding member of International Innovation Club ARCHIMEDES Moskow (2005);

Honorary Academician of International Academy of Arts and Science, Verbano, Italy (2005);

Gold Medal ICEPEC, Bruxelles, 2005;

Grand Prix „Archimede de Aur" 2005;

GRAND OFFICER DEGREE of Inventive Merite Order, Brussels – Belgium (2005);

Excelency Diploma – Romanian Association for Cultural Heritage, Bucharest (2005).

Excelency Diploma for Research with Gold Medal, Salonul INVENTICA 2005, Bucuresti,  
 Special Prize and Silver Cup, MCT-ANCS, București, 2005,  
 Special Prize and Gold Cup, „Pricinosti” Superiour School, Ucraina-Estonia-Belgia, 2005,  
 Special Prize and Gold Cup, Ajumel Academic Center, Sevastopol, 2005,  
 Special Prize and Cristal Cup, Pedagogical Assoc. of Inovators, Sevastopol, 2005;  
 Grad de Comandor Order „G. Constantinescu” Cluj-Napoca 2005;  
 DOCTOR HONORIS CAUSA, Balkan Academy of Science, Sofia, 2006;  
 Gold Medal and RUN Order, Bruxelles, 2006;  
 Gold Cup and Special Prize, MOO „Sociopolis in the Ukraine” (Kiev), sept. 2006;  
 Gold Cup and Special Prize, „Centri Sodeistvia Radiatïonoi Iadernoi i Ekologhiceskoi Bezopasnosti” Sevastopol, sept. 2006, Ukraina;  
 Attestation as Expert in Scienific Investigation and Conservation, Ministry of Culture, Bucharest, 2007;  
 Special Prize, Economic of the Development Agence of City Sevastopol, Ucraina, Moscova , 2007;  
 Order „Rojdenia”, Ajumel Academic Center, Sevastopol, Ukraina, 2008;  
 Grand Prix and Gold Cup, Technical University of Chişinău, 2008;  
 Prize of Inventors Union, R. Moldova, Chisinau, 2009;  
 Grand Prix „The Best International Delegation”, INOVA Zagreb, 2009;  
 Prize „Honor of Invention”, Taipei, 2009;  
 Order GOLD ARCHIMEDES (Ionation International Club of Moskow), Zagreb, 2009;  
 Grand Prix and Gold Cup, Technical University of Chişinău, Iaşi, 2009;  
 Grand Prix and Gold Cup, AGEPI- Chişinău, Iaşi , 2009;  
 „AS Popov” Medals, International Academy of Inventics of Sankt Petersburg, Iaşi, 2009;  
 Special Prize „Nicola TESLA”, Sevastopol 2010,  
 Chavalier of the Order STAR ODIN, Sevastopol, 2010,  
 Grand Prize „The Best International Delegation”, ATTIC Barcelona 2010;  
 Special Prize, International Academy of Inventics, Kiev, 2010  
 Special Prize, International Jury, INVENTICA 2010, Iasi;  
 Special Prize, National Scientific Book Exhibition, Iasi, 2010 (Scientific Conservation of the Stone Monuments);  
 Prize „Excelence in Research”, POLITEHNICA University of Bucuresti, 2010;  
 Special Prize of the Innovation Educational Association of Sevastopol, 2011;  
 Grand Prix of the Inventics Iranian Institute, 2011;  
 Special Award of the Croatian Inventors Association, 2011;  
 Creativity Order of the Superior School „Pricinosti” of Sevastopol, 2011;  
 Special Award of the Science Academy of Ukraine, 2011;  
 Diplom and Gold Medal of AGEPI, Kishinew, 2011;  
 Diplom and Gold Medal of Technical University of Moldova, Kishinew, 2011;  
 Diplom and Gold Medal of Medicine University of Moldova, Kishinew, 2011.

#### Excellent results in science of conservation and chemical research

The three structures of metal artefacts patina theory building (primary, secondary and contamination structures); degradation and deterioration effects theory building by micro and macro structural destruction (physical state) and material alteration (chemical nature) process. The normal range of variation of hydric equilibrium of wood theory building, applied in archaeometry and impact studies for preservation process.

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Electrochemical Conversion of Energy, Science of materials implied in electronics, energetic, restoration and preservation of the cultural national values and biotechnology.

Non-conventional procedures for the synthesis and the physic-structural, chemical and electrochemical characterization of some new materials with technical implications (“Layer-on-layer” sequential co-precipitation by ionic exchange by using the bionics system model; obtaining and characterization of the structures with stratified atomic networks with phonon-absorbent, piro- and/or photoelectric proprieties, proton conduction by the “tunneling effect” in the van der Waals bands of the compacts hexagonal marginal structures of the chalcogenides type from the stratified atoms networks, modification of the “proton-electron” mechanism for the reduction of the monophasic redox couples by there passing in reversible diphasic redox couples).

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## LIST OF PUBLICATIONS

### A. Books (29):

1. **I. SANDU**, V. COTIUGA, **Cercetarea criminalistică a bunurilor de patrimoniu și a documentelor falsificate**, Ed. AIT Laboratory Bucuresti (ISBN 978-606-8363-09-7), 2011, 530 p.;
2. **I. SANDU**, V. VASILACHE, **Conservarea amprentelor formă și a urmelor materiale**, Ed. AIT Laboratory Bucuresti (ISBN 978-606-8363-09), 2011, 330 p. (predat la editură);
3. G.DROCHIOIU, **I. SANDU**, **Bazele cercetării in domeniul stiintelor naturii**, Ed. AIT Laboratory Bucuresti, (ISBN 978-606-8363-09), 2011, 264 p. (predat la editură);
4. **I. SANDU**, V. VASILACHE, F.A. TENCARIU, V. COTIUGĂ, **Scientific Conservation of the Ceramic Artefacts**, Al.I.Cuza” University Publishing House, (ISBN 978-973-703-600-1), Iași, 2010, 455 p.;
5. M. QUARANTA, **I. SANDU**, **On the Degradation Mechanisms under Influence of Pedological Factors through the Study of Archaeological Bronze Patina**, “Al.I.Cuza” University Publishing House, (ISBN 978-973-703-499-1), Iași, 2010, 191 p.;
6. M. HAYASHI, **I. SANDU**, P. TIANO, N. MACCHIONI, **The Effect of Preservative Intervention on the Chemical-Physical and Structural Characteristics of Panel Painting**, “Al.I.Cuza” University Publishing House, (ISBN 978-973-703-476-2), Iași, 2010, 130 p.;
7. **I. SANDU**, M. CHIRAZI, **Ecology of Sports Systems**, Ed. Performantica (ISBN 978-973-703-688-3), Iași, 2010, 274 p.;
8. **I. SANDU**, M. BRÂNZILĂ, I.G. SANDU, **Scientific Conservation of the Stone Monuments**, “Al.I.Cuza” University Publishing House, (ISBN 978-973-703-476-2), Iași, 2009, 314 p.;
9. V. VASILACHE, **I. SANDU**, **Dispersive Systems and Physical-Chemistry of the Surfaces**, „Ștefan cel Mare” University Publishing House, (ISBN 978-973-703-341-3), Suceava, 2009, 324 p.;
10. V. VASILACHE, **I. SANDU**, C.LUCA, I.C.A.SANDU, **News concerning Scientific Conservation of the Old Polychrome Wood**, Ed. Univ. “Al.I.Cuza”, (ISBN 978-973-703-477-9), Iași, 2009, 282 p.;
11. C. MĂRUTOIU, **I. SANDU**, O. F. MĂRUȚOIU, I. GOGOȘĂ, **Chemistry of the Restoration of the metallic artefacts**, Ed. Risoprint Cluj Napoca, 2008, 220 p.;
12. **I. SANDU**, **Degradation and Deterioration of the Cultural Heritage**, Vol. I, “Al.I.Cuza” University Publishing House, (ISBN 978-973-703-341-3/978-973-703-342-0), Iași, 2008, 462 p.;
13. **I. SANDU**, **Degradation and Deterioration of the Cultural Heritage**, Vol. II, “Al.I.Cuza” University Publishing House, (ISBN 978-973-703-341-3/978-973-703-343-7), Iași, 2008, 538 p.;
14. **I. SANDU**, **Modern Aspects Concerning the Conservation of Cultural Heritage**, vol.V. **Identification of Painting Materials**, Ed. Performantica, (ISBN 973-730-048-3 și 973-730-049-1) Iași, 2007, 780 p.;
15. **I. SANDU**, I.C.A. SANDU, V. VASILACHE, M.L. GEAMAN, **Modern Aspects Concerning the Conservation of Cultural Heritage**, vol.IV. **Determination of the Conservation State and Restauration of the Easel Paintings**, Ed. Performantica, (ISBN 973-730-048-3 și 973-730-242-7) Iași, 2006, 432 p.;
16. I.G. SANDU, **I. SANDU**, A. DIMA, **Modern Aspects Concerning the Conservation of Cultural Heritage**, vol.III. **Autentication and Restauration of the Inorganic Material Artefacts**, Ed. Performantica, (ISBN 973-730-048-3 și 973-730-220-5) Iași, 2006, 502 p.;
17. I.C.A. SANDU, **I. SANDU**, C. LUCA, **Modern Aspects Concerning the Conservation of Cultural Heritage**, vol.II. **Autentication and Determination of the Old Paintings Conservation State**, Ed. Performantica, (ISBN 973-730-048-3 și 973-730-075-0), Iași, 2005, 537 p.;
18. **I. SANDU**, I.G. SANDU, **Modern Aspects Concerning the Conservation of Cultural Heritage**, vol.I. **Nomenclature, typologies and casuistries**, Ed. Performantica, (ISBN 973-730-048-3 și 973-730-049-1) Iași, 2005, 473 p.;
19. **I. SANDU**, **Nomenclature of the Conservation Cultural Heritage**, Ed. Performantica (ISBN 973-7994-90-6), Iași, 2004, 164 p.;
20. **I. SANDU**, I. C. A. SANDU, **Conservation and Restauration Chemistry**, vol I, Ed. Corson (ISBN 973-8225-27-1), Iași, 2002, 1058 p.;
21. **I. SANDU**, I. C. A. SANDU, **Conservation and Restauration Chemistry**, vol II, Ed. Corson (ISBN 973-8225-27-2), Iași, 2002, 668 p.;
22. **I. SANDU**, P. ATIYM, I. C. A. SANDU, **Complements of Structural Biochemistry**, Ed. Dacia, Cluj-Napoca, (ISBN 973-35-1414-4), 2002, 360 p.;
23. **I. SANDU**, I.C.A. SANDU, I. G. SANDU, **Colorimetry in Art**, Ed. Corson, Iași, (ISBN 973-8225-28-0), 2002, 430 p.;
24. **I. SANDU**, A. DIMA, I. G. SANDU, **Restauration and Conservation of Metallic Artefacts**, Ed. Corson, Iași, (ISBN 973-8225-24-8), 2002, 666 p.;
25. I. C. A. SANDU, **I. SANDU**, P. POPOIU, A. van SAANEN **Methodological Aspects Concerning Scientific Conservation of the Cultural Heritage**, Ed. Corson, Iași, (ISBN 973-8225-19-1), 2001, 686 p.;
26. P. van SAANEN, **I. SANDU**, I.C.A.SANDU, **Biochemistry Compendium**, vol I, Ed. Corson, Iași, (ISBN 973-8225-13-2), 2000, 506 p.;
27. **I. SANDU**, I. C. A. SANDU, A. van SAANEN, **Scientific Expertize of the Art Works, vol I**, “Al.I.Cuza” University Publishing House Iași, (ISBN 973-9272-21-5), 1998, 560 p.;
28. **I. SANDU**, I. C. A. SANDU, **Conservation and Restauration Chemistry of the Old Book, vol. I**, “Al.I.Cuza” University Publishing House,, (ISBN 973-9272-22-3), 1998, 610 p.;
29. A.GULEA, **I. SANDU**, M.POPOV, **Inorganic Chemistry Practical Laboratory Works**, Ed. Știința, (ISBN 5-376-01838-5), Kishinev, 1994, 400 p.;

## B. Manuals for Students (5):

1. I. SANDU, A. GULEA, **Legătura chimică. Structura și proprietățile moleculelor**, Ed. Universității de Stat din Chișinău, 1995, 240 p., FIN =  $2,40 \times 0,2 / 2 = 0,240$ ;
2. I. SANDU, S. ȘOVA, A. GULEA, **Structura atomului**, Ed. Universității de Stat din Chișinău, 1994, 148 p., FIN =  $1,48 \times 0,2 / 3 = 0,098$ ;
3. N. CALU, I. BERDAN, I. SANDU, **Indrumar de lucrări practice de chimie anorganică**, vol.I, Ed. Institutului Politehnic "Gh.Asachi" Iași, 1989, 308 pp., FIN =  $3,08 \times 0,1 / 3 = 0,103$ ;
4. N. CALU, I. BERDAN, I. SANDU, **Chimie anorganică. Funcția metalică**, vol.II, Ed. Institutului Politehnic "Gh.Asachi" Iași, 1988, 280 p., FIN =  $2,80 \times 0,1 / 3 = 0,093$ ;
5. N. CALU, I. BERDAN, I. SANDU, **Chimie anorganică. Starea metalică**, vol.I, Ed. Institutului Politehnic "Gh.Asachi" Iași, 1988, 260 p., FIN =  $2,60 \times 0,1 / 3 = 0,086$ ;

## C. Proceeding book edited as coordinator (8):

1. I. SANDU (editor), **Romanian Creativity in European Context**, Ed. Tehnopress, (ISBN 978-973-702-851-8), Iași, 2011, pp. 195-324 (128 pagini) (<http://www.eudirect.ro/euroinvent/cat/w2011.pdf>), FIN =  $1.28 \times 0,05 / 1 = 0,64$ ;
2. I. SANDU (editor), **Romanian Creativity in European Context**, Ed. Tehnopress, (ISBN 978-973-702-769-6), Iași, 2010, 230 p., FIN =  $2,30 \times 0,05 / 1 = 1,15$ ;
3. I. SANDU (editor), **Romanian Creativity in European Context**, Ed. Tehnopress, (ISBN 978-973-702-641-5), Iași, 2009, 195 p., FIN =  $1,95 \times 0,05 / 1 = 0,09$ ;
4. N. LUȚĂ, I. SANDU, O. PETREUȘ, **Produse și tehnologii pentru conservare patrimoniului cultural și istoric**, Ed. Performantica (ISBN 973-730-221-4), Iași, 2006, 286 p., FIN =  $2,86 \times 0,05 / 3 = 0,048$ ;
5. I. SANDU (redactor), **Știința, Tehnica și Arta Conservării și Restaurării Patrimoniului Cultural**, Ed. Universității "Al.I.Cuza" Iași, (Supliment al Analelor Științifice ale Universității, ISSN 1221-5333), vol. III, 1999, 420 p., FIN =  $4,2 \times 0,05 / 1 = 0,210$ ;
6. I. SANDU (redactor), **Știința, Tehnica și Arta Conservării și Restaurării Patrimoniului Cultural**, Ed. Universității "Al.I.Cuza" Iași, (Supliment al Analelor Științifice ale Universității, ISSN 1221-5333), vol. II, 1998, 334 p., FIN =  $3,34 \times 0,05 / 1 = 0,167$ ;
7. I. SANDU, M. MUSTĂȚĂ (redactor), **Știința, Tehnica și Arta Conservării și Restaurării Patrimoniului Cultural**, Ed. Universității "Al.I.Cuza" Iași (Supliment al Analelor Științifice ale Universității, ISSN 1221-5333), vol. I, 1997, 384 p., FIN =  $3,84 \times 0,05 / 2 = 0,096$ ;
8. P. JITARU, N. CALU, T. VIDRAȘCU, I. SANDU (redactor) al volumului **"Știința, Tehnica și Civilizația Umană în Perspectiva Viitorului"**, editat de Comisia de Futurologie a Academiei Române, Ed. Institutului Politehnic "Gh.Asachi" Iași, 1984, 412 p., FIN =  $4,12 \times 0,05 / 4 = 0,052$ .

## D. Chapter in International book (2):

1. F. TOFOLEANU, T. BALAU MINDRU, F. BRINZA, N. SULITANU, I.-G. SANDU, D. RAILEANU, V. FLORISTEAN, B.-A. HAGIU, C. IONESCU, I. SANDU, V. TURA, **Electrospun Gelatin Nanofibers Functionalized with Silver Nanoparticles, Silver Nanoparticles: Properties, Characterization and Applications**, Series: Nanotechnology Science and Technology (Editors: Audrey E. Welles), (ISBN 978-1-61728-062-7), Nova Science Publishers, 2010, Price \$145.00;
2. N. VRINCEANU, D. COMAN, I. SANDU, A. GRIGORIU, „*Surface microstructuring of PES fabrics by UV laser irradiation*”, in **DAAAM INTERNATIONAL SCIENTIFIC BOOK** (ISBN 978-3-901-509-71-1, ISSN 1726-9687), Cap. 59 (ed. B. Katalinic) Published by DAAAM International, Viena, 2009, p. 613-620, DOI:10.2507/daaam.scibook.2009.59;

## D. Papers published in ISI and SCOPUS Journals (109), Impact Factor = 121,065; Author Factor = 17,269

1. A.-M. TUDUCE TRĂISTARU, M.C. TIMAR, M. CAMPEANU, I. SANDU, *The influence of nano-ZnO as additive to Paraloid B72 solutions used for wooden artefacts consolidation: treatment by long time immersion*, **JOURNAL CULTURAL HERITAGE**, 2012, submitted for publication;
2. O. MIRCEA, I. SANDU, V. VASILACHE, A.V. SANDU, *Study of the Atypical Formations in the Corrosion Bulks of an Ancient Bronze Shield, by Optical and Electron Microscopy*, **MICROSCOPY RESEARCH AND TECHNIQUE**, 2012, submitted for publication;
3. I. SANDU, O. MIRCEA, V. VASILACHE, I.G. SANDU, *Impact of the Archaeological Environment on Ancient Copper Alloy Artifacts*, **JOURNAL OF ARCHAEOLOGICAL SCIENCE**, 2012, submitted for publication;
4. R.M.HLIHOR, M. DIACONU, D. FERTU, C. CHELARU, I. SANDU, T. TAVARES, M. GAVRILESCU, *Bioremediation of Cr(VI) Polluted Wastewaters by Sorption on Heat Inactivated Saccharomyces cerevisiae Biomass*, **INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH**, 2012, submitted for publication;
5. V.E. COPCIA, R. GRADINARU, N. BILBA, I. SANDU, *Antibacterial activity of ZnO nanoparticles dispersed onto SBA-15 and clinoptilolite*, **REVISTA DE CHIMIE**, 63, 11, (2012), submitted for publication;
6. M. IRIMIA, F. IACOMI, A.P. RAMBU, A.V. SANDU, C. DOROFTEI, I. SANDU, *Influence of substrate temperature on the properties of Ga doped ZnO thin films*, **REVISTA DE CHIMIE**, 63, 10, (2012), submitted for publication;



7. I.V. ASAFTEI, **I. SANDU**, N. BILBA, G. IOFCEA, *Conversion of Light Hydrocarbons from Petroleum Refining Processes over ZnO/HZSM-5 co-Catalyst*, **REVISTA DE CHIMIE**, 63, 8, (2012), submitted for publication;
8. A.V. SANDU, A. CIOMAGA, G. NEMTOI, C. CODDET, C. BEJINARIU, **I. SANDU**, *Corrosion Behaviour of New Zinc Phosphate Layers on Iron Objects*, **SURFACES AND INTERFACES ANALYSIS**, Maney Publishing (ISSN 1478-422X), vol. 47, 3, (2012), submitted for publication;
9. V. COPCIA, C.M. HRISTODOR, N. BILBA, **I. SANDU**, *Ion exchange properties of the natural and modified clinoptilolite tuff towards ammonium ions*, **SEPARATION AND PURIFICATION TECHNOLOGY**, Elsevier, 2012, submitted for publication;
10. B.A. HAGIU, O.C. MUNGIU, L.B. UNGUREANU, A.V. SANDU, A. NEAGU, V. VASILACHE, **I. SANDU**, *Silver Nanodispersion with Regenerative Properties*, **DERMATOLOGY**, (2012), submitted for publication;
11. R. SCĂRLET, L.R. MANEA, **I. SANDU**, B. CRAMARIUC, A.V. SANDU, *The Influence of the Needle – Collector Distance Upon the Characteristics of the Polyetherimide Nanofibers Obtained by Electrospinning*, **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 63, 8, (2012), pp XXX-XXX, submitted for publication;
12. R. SCĂRLET, L.R. MANEA, **I. SANDU**, L. MARTINOVA, O. CRAMARIUC, I.G. SANDU, *Study on the Solubility of Polyetherimide for Nanostructural Electrospinning*, **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 63, 7, (2012), pp XXX-XXX, submitted for publication;
13. R. DELIU, **I. SANDU**, R. BUTNARU, I.G. SANDU, D. LUKAS, *Study of the influence of electrospinning parameters on the structure and morphology of polyvinyl alcohol nanofibers*, **REVISTA DE CHIMIE**, 63, 6, (2012), submitted for publication;
14. D. BONTEA, C. IORDACHE, A.M. BONTEA, **I. SANDU**, A. LUCA, I.G. SANDU, *The Rheology of Silylcellulosic Derivatives Solutions used for Tissue Regeneration. II. Triphenylsilylcellulose*, **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 63, 6, (2012), pp XXX-XXX, submitted for publication;
15. M. ALEXIANU, **I. SANDU**, R.-G. CURCA, *Fire, Brine and Wood: The First Nutritional Supplement and Medicine in the Inland World*, **MANKIND QUARTERLY** (ISSN 0025-2344), 52, 3, (2012), Impact Factor = 1.150, Author Factor = **0,383**;
16. **I. SANDU**, D. APARASCHIVEI, V. VASILACHE, I.G. SANDU, O. MIRCEA, *The Archaeometric Characteristics of some Ancient Medical Instruments from the Moesia Inferior Roman Province, Revealed by SEM/EDX and  $\mu$ -FTIR*, **REVISTA DE CHIMIE**, 63, 5, (2012), Impact Factor = 0,693, Author Factor = **0,139**;
17. A.M. SAVIUC-PAVAL, **I. SANDU**, I.M. POPA, I.G. SANDU, V. VASILACHE, A.V. SANDU, *Preparation and characterisation of the new ceramic pigments for artistic polychromic elements. III. Therogravimetric Analysis*, **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 63, 3, 273-282, (2012), Impact Factor = 0,693, Author Factor = **0,115**;
18. V. VASILACHE, C. FILOTE, M.A. CRETU, **I. SANDU**, V.COISIN, Tr.VASILACHE, C. MAXIM, *Monitoring of Groundwater Quality in Some Vulnerable Areas in Botosani County – Nitrates and Nitrites Based Pollutants*, in **ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL**, Iasi (ISSN 1582-9596), 11,2, (2012), pp. 471-479; Impact Factor = 1,435, Author Factor = **0,205**;
19. L. CHIRILA, R. BUTNARU, **I. SANDU**, V. VASILACHE, M. TARLEA *Water pollution reduction by using new premetallised dyes in dyeing wool*, in **ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL**, Iasi (ISSN 1582-9596), 11, 2, (2012), pp. 285-290, Impact Factor = 1,435, Author Factor = **0,287**;
20. A.M. SAVIUC-PAVAL, **I. SANDU**, I.M. POPA, I.C.A. SANDU, V. VASILACHE, I.G. SANDU, *Preparation and characterisation of the new ceramic pigments for artistic polychromic elements. II. Microscopic and Colourimetric Analysis*, **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 63, 2, (2012), pp. 166-174, Impact Factor = 0,693, Author Factor = **0,115**;
21. C. GHERASIMESCU, **I. SANDU**, A.-C. CIOCAN, I.G. SANDU, M. LEVA MIHAIL, R. BERARIU, *The Use of Pekoflam DPN for Fireproofing Cotton Textile Materials*, **REVISTA DE CHIMIE**, vol. 63, 2, (2012), pp. 208-212, Impact Factor = 0,693, Author Factor = **0,115**;
22. A.M. SAVIUC-PAVAL, **I. SANDU**, I.M. POPA, I.G. SANDU, V. VASILACHE, A.V. SANDU, *Preparation and characterisation of the new ceramic pigments for artistic polychromic elements. I. Synthesis and SEM-ERDX and  $\mu$ -FTIR Analysis*, **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 63, 1, (2012), pp. 40-48, Impact Factor = 0,693, Author Factor = **0,115**;
23. D. BONTEA, C. IORDACHE, A.M. BONTEA, **I. SANDU**, A. LUCA, I.G. SANDU, *The Rheology of Silylcellulosic Derivatives Solutions used for Tissue Regeneration. I. Trimethylsilylcellulose*, **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 62, 12, (2011), pp. 967 - 971; Impact Factor = 0,693, Author Factor = **0,115**;
24. L.CHIRILĂ, **I. SANDU**, R. BUTNARU, F. CRIVOI, *Study of some new  $Ni^{2+}$ ,  $Zn^{2+}$  premetallised complexes derived from orto-aminoazo dyes*, **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 62, 9, (2011), pp. 867 - 871; Impact Factor = 0,693, Author Factor = **0,173**;
25. P. PREPELITA, R. MEDIANU, F. IACOMI, **I. SANDU**, *Structural properties of  $CuInGa-ZnS$  heterostructure deposited onto polyamide substrate*, **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 62, 9, (2011), pp. 905 - 907; Impact Factor = 0,693, Author Factor = **0,173**;
26. C.E. LUCHIAN, V.V. COTEA, **I. SANDU**, V.E. COPCIA, N. BILBA, *Removal of  $Mn(II)$ ,  $Ni(II)$  and  $Cu(II)$  ions from white wine through ion exchange in microporous mordenite and mesoporous  $Al-MCM-41$* , **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 62, 8, (2011), pp. 782 - 786; Impact Factor = 0,693, Author Factor = **0,139**;
27. N.C. LUNGU, M. ALEXANDROAEI, **I. SANDU**, *Study of the Penicillin Dissipation in Aqueous Solution of Penicillinase with Attenuated Activity*, **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 62, 8, (2011), pp. 787 - 791; Impact Factor = 0,693, Author Factor = **0,231**;
28. A.I. AMIRONESEI C. TABACARU, M. CAZACU, **I. SANDU**, F. IACOMI, *Layer of silicon-silver composite*, **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 62, 4, (2011), pp. 455 - 458; Impact Factor = 0,693, Author Factor = **0,139**;
29. L. CHIRILA, R. BUTNARU, **I. SANDU**, A.-C. CIOCAN, A.V. SANDU, *Research concerning the use as colorants with Cu for cotton textile*, in **REVISTA DE CHIMIE**, București (ISSN 0034 - 7752), vol. 62, 3, (2011), pp. 265-271; Impact Factor = 0,693, Cited Factor = 0.693 (Revista de Chimie) =  $0.693 \times 0.3 = 0.208$ , Author Factor =  $(0.639 + 0.208) / 5 = 0,180$ ;
30. E.-A. PERIANU, M. N. PALAMARU, A.R. IORDAN, F. GHEORGHIU, **I. SANDU**, I.A. GORODEA, A.V. SANDU, *Preparation and Dielectric Spectroscopy Characterization of  $A_2MnMoO_6$  ( $A = Ca, Sr$  and  $Ba$ ) Double Perovskites*, **REVISTA DE CHIMIE**, București (ISSN 0034 - 7752), vol. 62, 1, (2011), pp.17-20; Impact Factor = 0,693, Author Factor = **0,099**;

31. V. COPCIA, C. HRISTODOR, C. LUCHIAN, N. BILBA, **I. SANDU**, "Ammonium nitrogen removal from aqueous solution by natural clay", **REVISTA DE CHIMIE**, București (ISSN 0034 -7752), vol. 61, 12, (2010), pp. 1192 -1196; Impact Factor = 0,639, Cited Factor = 0.639 (Revista de Chimie) =  $0.693 \times 0.3 = 0.208$ , **Author Factor** =  $(0.693+0.208)/5 = 0,180$ ;
32. **I. SANDU**, V. VASILACHE, I.C.A. SANDU, M. HAYASHI, "New Method of Determining the Normal Range of Hydric-Equilibrium Variation in Wood with Multiple Applications", in **REVISTA DE CHIMIE**, București (ISSN 0034 -7752), vol. 61, 12, (2010), pp. 1212 -1218; Impact Factor = 0,693, Author Factor = **0,173**
33. R.I. CERNAT, R.D. MOCANU, E. POPA, **I. SANDU**, R.I. OLARIU, C. ARSENE, *Investigation of Chemical Parameters in Biological Systems*, **REVISTA DE CHIMIE**, București (ISSN 0034 -7752), vol. 61, 11, (2010), pp. 1125 -1130; Impact Factor = 0,693, Cited Factor = 0.639 (Revista de Chimie) =  $0.639 \times 0.3 = 0.192$ , **Author Factor** =  $(0.693+0.192)/6 = 0,144$ ;
34. **I. SANDU**, O. MIRCEA, A.V. SANDU, I. SARGHIE, I.G. SANDU, V. VASILACHE, "Non-invasive Techniques in the Analysis of Corrosion Crusts formed on Archaeological Metal Objects", **REVISTA DE CHIMIE**, București (ISSN 0034 -7752), vol. 61, 11, (2010), pp. 1054 -1058; Impact Factor = 0,693, Author Factor = **0,092**;
35. C. BEJINARIU, A.V. SANDU, C. BACIU, **I. SANDU**, Șt.-L. TOMA, I.G. SANDU, "Sewage Treatment of Subproducts Resulted from Phosphatation of Iron Objects", in **REVISTA DE CHIMIE**, București (ISSN 0034 -7752), vol. 61, 10, (2010), pp. 961-964; Impact Factor = 0,552, Impact Factor = 0,639, Cited Factor = 0.693 (Revista de Chimie) + 0.693 (Revista de Chimie) =  $0.693 \times 0.3 + 0.693 \times 0.3 = 0.416$ , **Author Factor** =  $(0.693+0.416)/5 = 0,222$ ;
36. D. HUMELNICU, C. ARSENE, B. BURGHELE, M. BERTESCU, I. HUMELNICU, **I. SANDU**, D. MANTU, R.-I. OLARIU, *Interaction of Actinide Cations with Heteropolyoxotungstate Ions [SiW<sub>11</sub>O<sub>39</sub>]<sup>6-</sup> and [SiW<sub>12</sub>O<sub>40</sub>]<sup>4-</sup>*, in **REVISTA DE CHIMIE**, București (ISSN 0034 -7752), vol. 61, 9, (2010), pp. 841 - 844; Impact Factor = 0,693, Author Factor = **0,086**;
37. **I. SANDU**, M. CHIRAZI, I.G. SANDU, G.I. OLTEANU, M. CANACHE, A.V. SANDU, V. VASILACHE, C. PASCU, "Researches on the NaCl saline aerosols. II. New Artificial Halo-chamber Characteristics", in **ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL**, Iasi (ISSN 1582-9596), 9, 8, (2010), pp. 1105-1113; Impact Factor = 0,885, Author Factor = **0,111**;
38. C. GHERASIMESCU, R. BUTNARU, **I. SANDU**, A.-C. CIOCAN, A.V. SANDU, "Research concerning the use of fireproof compounds for cotton textile treatment", in **REVISTA DE CHIMIE**, București (ISSN 0034 -7752), vol. 61, 8, (2010), pp. 728-732; Impact Factor = 0,693, Author Factor = **0,138**;
39. **I. SANDU**, M. CHIRAZI, M. CANACHE, M.T. ALEXIANU, I.G. SANDU, A.V. SANDU, V. VASILACHE, "Researches on the NaCl saline aerosols. I. Natural and Artificial Production Sources and their Implications", in **ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL**, Iasi (ISSN 1582-9596), 9, 6, (2010), pp. 881-888; Impact Factor = 0,885, Cited Factor = 1.435 (Environmental Engineering Management Journal) + 1.435 (Environmental Engineering Management Journal) =  $2.870 \times 0.3 = 0.862$ , **Author Factor** =  $(0.885+0.862)/5 = 0,350$ ;
40. I.C.A. SANDU, S. BRACCI, M. LOBERFARO, **I. SANDU**, "Integrated Methodology for the Evaluation of Cleaning in Two Russian Icons (XVII-XVIII Century)", in **MICROSCOPY, RESEARCH and TECHNIQUE**, Elsevier (ISSN -1059910X), vol. 73, 8, (2010), 752-760; DOI: 10.1002/jemt.20817, Impact Factor = 1,850, Cited Factor = 0.998 (Surface and Interface Analysis) =  $1.247 \times 0.3 = 0.374$ , **Author Factor** =  $(1.850+0.374)/4 = 0,556$ ;
41. **I. SANDU**, A. PORUCIUC, M. ALEXIANU, R.-G. CURCĂ, O. WELLER, "Salt and Human Health: Science, Archaeology, Ancient Texts and Traditional Practices of Eastern Romania", **MANKIND QUARTERLY** (ISSN 0025-2344), 50, 3, (2010), pp. 225-256, Impact Factor = 1,150, Cited Factor = 1.435 (Environmental Engineering Management Journal) + 1.435 (Environmental Engineering Management Journal) =  $1.435 \times 0.3 + 1.435 \times 0.3 = 0.862$ , **Author Factor** =  $(1.150+0.862)/5 = 0,402$ ;
42. **I. SANDU**, M. ALEXIANU, R.-G. CURCĂ, O. WELLER, C. PASCU, "Halotherapy: From Ethnoscience to Scientific Explanations", in **ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL**, Iasi (ISSN 1582-9596), 8, 6, NOV/DEC 2009, pp. 1331-1338; Impact Factor = 0,885, Cited Factor = 1.435 (Environmental Engineering Management Journal) + 1.435 (Environmental Engineering Management Journal) + 1.15 (Mankind Quarterly) =  $1.435 \times 0.3 + 1.435 \times 0.3 + 1.15 \times 0.3 = 1.207$ , **Author Factor** =  $(0.885 + 1.207)/5 = 0,418$ ;
43. D. HUMELNICU, R.I. OLARIU, **I. SANDU**, I. HUMELNICU, A.V. SANDU, C. ARSENE, "Studies on chemical interferences on uranium (VI) and thorium (IV) reaction with (iso)polioxometalates" in **REVISTA DE CHIMIE**, București (ISSN 0034 -7752), vol. 60, 12, (2009), pp. 1264 - 1269; Impact Factor = 0,552, Author Factor = **0,092**;
44. R.I. OLARIU, D. HUMELNICU, **I. SANDU**, I. HUMELNICU, C. ARSENE, "Physico-chemical characterization of new silica-polioxometalate thermally modified unit", in **REVISTA DE CHIMIE**, București (ISSN 0034 -7752), vol. 60, 11, (2009), pp. 1216 -1219; Impact Factor = 0,552, Author Factor = **0,110**;
45. **I. SANDU**, O. MIRCEA, I. SARGHIE, A.V. SANDU, "Study of Some Atypical Formations from the Bulk of the Iron Artefacts by Means of the Complementary Analytical Techniques", in **REVISTA DE CHIMIE**, București (ISSN 0034 -7752), vol. 60, 10, (2009), p. 1016-1024; Impact Factor = 0,552, Cited Factor = 0.693 (Revista de Chimie) + 0.693 (Revista de Chimie) =  $0.693 \times 0.3 + 0.693 \times 0.3 = 0.416$ , **Author Factor** =  $(0.552+0.416)/5 = 0,194$ ;
46. **I. SANDU**, N. VRINCEANU, D. COMAN, "Study of surface modifications of wool fabrics by UV excimer laser irradiation treatment", in **REVISTA DE CHIMIE**, București (ISSN 0034 -7752), vol. 60, 9 (2009), pp. 944-948; Impact Factor = 0,552, Cited Factor = 0,853 (Industria Textila. 2010) =  $0,853 \times 0,3 = 0,256$ , **Author Factor** =  $(0,552 + 0,256)/3 = 0,269$ ;
47. R. GRADINARU, S.O. VALU, Șt. POSTOLACHE, C.C. PAVEL, **I. SANDU**, K. POPA, "On The Influence of ETS-10 Porosity and Surface Properties in Retention of Some Nanoions and Nanomolecules", in **ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL**, Iasi (ISSN 1582-9596), 8, 4, JUL/AUG 2009, pp. 901-905; Impact Factor = 0,885, Cited Factor = 1.435 (Environmental Engineering Management Journal) + 0.777 (**Journal Radioanalytical Nuclear Chemistry**) + 0,659 (**Journal Radioanalytical Nuclear Chemistry**) =  $1,871 \times 0,3 = 0,561$  **Author Factor** =  $(0,885 + 0,561)/6 = 0,241$ ;
48. V. VASILACHE, S. GUTT, Gh. GUTT, Tr. VASILACHE, C. FILOTE, **I. SANDU**, "Studies of hardness for the electrodeposited nickel from Watts baths with addition of polyvinyl pyrrolidone (PVP)", in **REVUE ROUMAINE DE CHIMIE**, București (ISSN 0035-3930), vol. 54, 3, (2009), pp. 243 - 247; Impact Factor = 0,263, Author Factor = **0,044**;
49. I.C.A. SANDU, S. BRACCI, **I. SANDU**, M. LOBERFARO, "Integrated analytical study for authentication of five Russian icons (XVII-XVIII Century)", in **MICROSCOPY, RESEARCH and TECHNIQUE**, Wiley (ISSN -1059910X), vol. 72, 10, (2009), 755-765; Impact Factor = 1,850, Cited Factor = 0.998 (Surface and Interface Analysis) + 1,850 (Microscopy, Research and Technique) =  $2.848 \times 0.3 = 0.854$ , **Author Factor** =  $(1.850+0.854)/4 = 0,676$ ;
50. V. VASILACHE, S. GUTT, Gh. GUTT, T. VASILACHE, **I. SANDU**, I.G. SANDU, "Determination of the Dimension of Crystalline Grains of Thin Layers of Zinc-Nickel Alloys Electrochemically Deposited", **METALURGIA INTERNATIONAL**, (ISSN 1582-2214), 14, 3, (2009), p. 49 - 53; Impact Factor = 0,173, Author Factor = **0,080**;

51. O. MIRCEA, I. SARGHIE, **I. SANDU**, V. URSACHI, M. QUARANTA, A.V. SANDU, „The study of some atypical degradation processes of an iron archaeological piece”, în **REVISTA DE CHIMIE**, București (ISSN 0034 -7752), vol. 60, 4, (2009), p. 332-336; Impact Factor = 0,552, Author Factor = **0,092**;
52. N. VRINCEANU, **I. SANDU**, A. GRIGORIU, D. COMAN, C. FOTAKIS, P. POULI, „Analytical studies of contaminated documents cleaned by Nd:YAG laser treatment”, in **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 60, 3, (2009), p. 231-236; Impact Factor = 0,552, Cited Factor = 0,364 (Industria Textila, 2010) =  $0,364 \times 0,3 = 0,109$ , Author Factor = **0,092 + 0,018 = 0,110**;
53. O. MIRCEA, I. SARGHIE, **I. SANDU**, M. QUARANTA, A.V. SANDU, „The study of some textile impressions from the bulk of the iron artefacts by means of the complementary analytical techniques”, in **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 60, 2, (2009), p. 201-207; Impact Factor = 0,552, Cited Factor = 3,435 (Journal of Analytical Atomic Spectrometry) =  $3,435 \times 0,3 = 1,031$ , Author Factor =  $(0,206 + 0,110) = 0,316$ ;
54. V. VASILACHE, Gh. GÜTT, Tr. VASILACHE, **I. SANDU**, „Studies concerning nickel electrodeposition from Watts bath with addition of polyvinyl pyrrolidone (PVP)”, in **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 60, 1, (2009), p. 15-19; Impact Factor = 0,552, Author Factor = **0,138**;
55. G. CIOBANU, G. CARJA, O. CIOBANU, **I. SANDU**, A.V. SANDU, „SEM and EDX studies of bioactive hydroxyapatite coatings on titanium implants”, in **MICRON**, (ISSN 0968-4328), 40. (1), (2009), p. 143-156; Impact Factor = 1,651, Cited Factor = 4,502 (Biomacromolecules) + 1,181 (Journal of Materials Science) + 1,812 (Materials Science and Engineering: C) + 1,642 (International Journal of Nanomedicine) + 1,540 (J.Applied Electrochemistry) + 0,531 (International Journal of Chemical Reactor Engineering) + 1,727 (Thin Solid Films) + 3,108 (Macromolecular Bioeience) =  $16,043 \times 0,3 = 4,813$ , Author factor =  $(1,651 + 4,813) / 5 = 1,293$ ;  
[www.netmed.com.br/revistas/revistas.php?bd=pubmed&submit=y&eword=&nmid=9312850&retstart=60](http://www.netmed.com.br/revistas/revistas.php?bd=pubmed&submit=y&eword=&nmid=9312850&retstart=60); [www.science24.com/person/552](http://www.science24.com/person/552;);
56. N. VRINCEANU, D. COMAN, **I. SANDU**, A. GRIGORIU, „Surface microstructuring of polyester fabrics by UV excimer laser irradiation”, in **ANNALS of DAAAM** (ISSN 1726-9679), Viena, 2008, p. 1511-1512; Impact Factor = 0, Author Factor = 0;
57. N. VRINCEANU, **I. SANDU**, I. STEFANUȚA, D. VLAD, „Studies on the adherence of the thermoglued textile ensembles-method and instrument used”, in **ANNALS of DAAAM** (ISSN 1726-9679), Viena, 2008, p. 1513-1514; Impact Factor = 0, Author Factor = 0;
58. N. VRINCEANU N., D. COMAN, A. GRIGORIU, **I. SANDU**, „Hydrophilic Surface Patterning of Polyamide Textile Materials, Using Excimer UV Laser Treatment”, **ITC&DC: 4<sup>th</sup> INTERNATIONAL TEXTILE CLOTHING & DESIGN CONFERENCE, BOOK OF PROCEEDINGS**, 2008, p. 482-486; Impact Factor = 0, Author Factor = 0;
59. V. TURA, F. TOFOLEANU, I. MANGALAGIU, T.B. MINDRU, F. BRINZA, N. SULITANU, **I. SANDU**, D. RAILEANU, C. IONESCU, „Electrospinning of gelatin-chitin composite nanofibers”, in **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS (J.O.A.M.)**, Bucharest (ISSN 1454 - 4164), 10, (12) 2008, p. 3505-3511, Impact Factor = 0,827, Author factor = **0,092**;
60. F. TOFOLEANU, T.B. MINDRU, F. BRINZA, N. SULITANU, I.G. SANDU, D. RAILEANU, V. FLORISTEAN, B. HAGIU, C. IONESCU, **I. SANDU**, V. TURA, „Electrospun gelatin nanofibers functionalized with silver nanoparticles”, in **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS (J.O.A.M.)**, Bucharest (ISSN 1454 - 4164), 10, (12) 2008, p. 3512-3516, Impact Factor = **0,827**, Cited factor = 2,644 (Carbohydrate Polymers) + =  $2,644 \times 0,3 = 0,793$ , Author factor =  $(0,827 + 0,793) / 11 = 0,147$ ;
61. R.I. OLARIU, D. HUMENICU, C. ARSENE, **I. SANDU**, G. CARJA, „Obtaining and chemical characterization of the new derivated complex compounds on the  $UO_2^{2+}$  and  $Th^{4+}$  with cluster izopolyoxomolybdates and izopolyoxowolframate”, in **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 59, 9, (2008), p. 1052-1056; Impact Factor = 0,389, Author Factor = **0,078** (citat in Annals of Chemistry, Ovidius University of Constanta);
62. D. HUMENICU, R.I. OLARIU, **I. SANDU**, N. APOSTOLERSCU, A.V. SANDU, C. ARSENE, „New heteropolyoxotungstates and heteropolyoxomolybdates containing radioactive ions (uranyl and thorium) in their structure”, in **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 59, 8 (2008), p. 920 - 925; Impact Factor = 0,389, Author Factor = **0,065**;
63. **I. SANDU**, N. URSULESCU, I.G. SANDU, O. BOUNEGRU, I.C.A. SANDU, A. ALEXANDRU, „The pedological stratification effect of corrosion and contamination products on byzantine bronze artefacts”, in **CORROSION ENGINEERING SCIENCE AND TECHNOLOGY**, Maney Publishing (ISSN 1478-422X), vol. 43, 3, (2008), p. 256-266, Impact Factor = 0,553, Impact, Cited Factor = 0,639 (Material and Corrosion) + 0,896 (Crystal Research and Technology) =  $1,535 \times 0,3 = 0,461$ , Author Factor =  $0,092 + 0,077 = 0,169$ ;
64. I.C.A. SANDU, C. LUCA, **I. SANDU**, V. VASILACHE, M. HAYASHI, „Authentication of ancient easel-paintings through materials identification from polychrome layers. III. Cross-section and staining analysis” in **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 59, 8, (2008), p. 855-866; Impact Factor = 0,389, Author Factor = **0,078**;
65. G. DROCHIOIU, K. POPA, D. HUMELNICU, M. MURARIU, **I. SANDU**, A. CECAL, „Comparison of various sensitive and selective spectrophotometric assays of environmental cyanide”, in **TOXICOLOGICAL & ENVIRONMENTAL CHEMISTRY**, Taylor & Francis (ISSN 0277- 2248), vol. 90, 2, (2008), 221 – 235; Impact Factor = 0,00, Cited Factor = 2,00 (Journal of Microbiological Methods) + 0,00 () =  $2,00 \times 0,3 = 0,600$ , Author factor =  $0,100 + 0,00 = 0,100$ ;
- Web Cited: [www.terkko.helsinki.fi/mobile/feednavigator/?articleid=1620776](http://www.terkko.helsinki.fi/mobile/feednavigator/?articleid=1620776);  
[www.informaworld.com/smpp/469528249-95148328/title-db=all~content=g791838060~tab=to:](http://www.informaworld.com/smpp/469528249-95148328/title-db=all~content=g791838060~tab=to:)  
[www.informaworld.com/smpp/content~content=a781000563~db=all~jumptype=rss:](http://www.informaworld.com/smpp/content~content=a781000563~db=all~jumptype=rss:)
66. I.C.A. SANDU, C. LUCA, **I. SANDU**, V. VASILACHE, M. HAYASHI, „Authentication of ancient easel-paintings through materials identification from polychrome layers. II. FTIR Spectroscopy” in **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 59, 4 (2008), 384-387; Impact Factor = 0,389, Cited Factor = 0,389 (Rev.Chim.) =  $0,389 \times 0,3 = 0,1167$ , Author Factor =  $0,068 + 0,1167 = 0,185$ ;
67. I. CARCEA, C. ROMAN, A.V. SANDU, R. CHELARIU, **I. SANDU**, „Structure and composition disturbances in certain aluminium bronzes”, in **METALURGIA INTERNATIONAL** (ISSN 1582-2214), vol. XIII, 3 (2008), p. 14-20; Impact Factor = 0, Author Factor = 0;
68. **I. SANDU**, C. LUCA, I.C.A. SANDU, V. VASILACHE, „Authentication of ancient easel-paintings through materials identification from polychrome layers. I. Gas-chromatography analysis” in **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 58, nr. 10, (2007), p. 879 – 886, Impact Factor = 0,278, Author Factor = **0,070**;
69. M.L. RUSU, C. MARUTOIU, **I. SANDU**, D. TITA, I. GOGOASA, C.H. BARBU, A. POPESCU, „Separation and identification of eugenol presence in certain plants by HPTLC and GC/MS”, in **J. PLANAR CHROMATOGRAPHY - MODERN TLC** (ISSN 0933-4173), vol. 20, nr. 2 (2007), pp. 139-140, Impact Factor = 0,667, Cited Factor = 3,062 (J. Mass Spectr.) + 0,662 (JPC - Journal of Planar Chromatograph) =  $3,724 \times 0,3 = 1,117$ , Author Factor =  $0,095 + 0,160 = 0,255$ ;

70. N. SULITANU, C. PÎRGHIE, **I. SANDU**, „Effect of ultrasonication on the electrolytic growth of nanocrystalline Ni films”, in **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 58, nr.1 (2007), p. 20 – 24, Impact Factor = 0,278, Cited Factor = 0,261 (Rev.Chim.) = 0,261 x 0,3 = 0,078, Author Factor = 0,093 + 0,026 = **0,119**;
71. A. COTOVAIA, S. SHOVA, Yu.A. SIMONOV, T. ROSHU, **I. SANDU**, A. GULEA, „Structure and some properties of new formes of tris-(2-aminoethanolato-o,n) cobalt (III)”, in **KOORDINATSIONNAYA KHIMIYA**, Moskva, (ISSN 1070-3284), vol. 32, nr. 11, (2006), pp. 873 - 880, Impact Factor = 0,564, Author Factor = **0,094**;
72. I.C.A. SANDU, S. BRACCI, **I. SANDU**, „Instrumental analyses used in the authentication of old paintings. I. Comparison between two Icons of XIX<sup>th</sup> Century”, in **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 57, nr.8 (2006), p. 796 – 803, Impact Factor = 0,308, Author Factor = **0,103**;
73. I.G. SANDU, S., STOLERIU, **I. SANDU**, M. BREBU, A.V. SANDU, „Authentication of ancient bronze coins by the study of the archaeological patina. I. Composition and structure”, in **REVISTA DE CHIMIE**, București, (ISSN 0034-7752), vol. 56, nr. 10 (2005), p. 981-994, Impact Factor = 0,308, Author Factor = **0,062**;
74. **I. SANDU**, A. GULEA, I.C.A., SANDU, C. LUCA, I.G. SANDU., „Studies on the reaction system Pd<sup>2+</sup> - 2,6 diaminotoluene”, in **REVISTA DE CHIMIE**, București, (ISSN 0034-7752), vol. 56, nr. 8 (2005), p. 805-809, Impact Factor = 0,308, Author Factor = **0,062** (C.A. 12345W/145/2006);
75. **I. SANDU**, C. PASCU, I.G. SANDU, G. CIOBANU, A.V. SANDU, O. CIOBANU, „The obtaining and characterization of NaCl nanocrystalline dispersions for saline – type therapeutical climate. III. The evaluation of the SALIN device reliability”, in **REVISTA DE CHIMIE**, București, (ISSN 0034-7752), vol.55, nr. 12 (2004),p. 975-982; Impact Factor = 0,308, Author Factor = **0,051** (C.A. 435645r/145/2006);
76. **I. SANDU**, C. PASCU, I.G. SANDU, G. CIOBANU, A.V. SANDU, O. CIOBANU, „THE OBTAINING AND CHARACTERIZATION OF NaCl NANOCRYSTALLINE DISPERSIONS FOR SALINE – TYPE THERAPEUTICAL ENVIRONMENTS. II. THE IN SITU ANALYSIS OF SALINE ROOM AEROSOLS”, in **REVISTA DE CHIMIE, BUCUREȘTI**, (ISSN 0034-7752), VOL.55, NR. 10 (2004),P.791-797, IMPACT FACTOR = 0,308, AUTHOR FACTOR = **0,051** (C.A. 435631H);
77. **I. SANDU**, C. PASCU, I.G. SANDU, G. CIOBANU, V. VASILE, O. CIOBANU, „THE OBTAINING AND CHARACTERIZATION OF NaCl NANOCRYSTALLINE DISPERSIONS FOR SALINE – V. THERAPEUTICAL MEDIA. I. THEORETICAL ASPECTS”, in **REVISTA DE CHIMIE, BUCUREȘTI**, (ISSN 0034-7752), VOL.54, NR. 10 (2003), PP. 807-812, IMPACT FACTOR = 0,281, AUTHOR FACTOR = **0,047** (C.A. 275857Q);
78. N. SULIȚANU, **I. SANDU**, I.G. SANDU, „ROLE OF THIOUREA ADDITIVE IN THE ELECTRODEPOSITION PROCESS OF NANOCRYSTALLINE NICKEL AND IRON THIN FILMS”, in **REVISTA DE CHIMIE, BUCUREȘTI**, (ISSN 0034-7752), VOL.54, NR. 8, (2003), PP 670-676, IMPACT FACTOR = 0,281, CITED FACTOR = 0,261 (REV.CHIM.) = 0,261 x 0,3 = 0,078, AUTHOR FACTOR = 0,094 + 0,026 = **0,120** (C.A. 242590U);
79. N. SULIȚANU, **I. SANDU**, „SYNTHESIS BY CHEMICAL REDUCTION METHOD, MICROSTRUCTURE AND MAGNETIC BEHAVIOUR OF ULTRA-FINE AMORPHOUS POWDERS IN (Fe, Co, Ni)-B SYSTEMS”, in **REVISTA DE CHIMIE, BUCUREȘTI**, (ISSN 0034-7752), VOL.54, NR. 7 (2003), PP. 561-565, IMPACT FACTOR = 0,281, CITED FACTOR = 5,33 (CHEM: A EU.J.) + 0,261 (REV.CHIM.) = 5,591 x 0,3 = 1,677, AUTHOR FACTOR = 0,141 + 0,826 = **0,967** (C.A. 121228Y);
80. I.C.A. SANDU, M. BREBU, C. LUCA, **I. SANDU**, C. VASILE, „Thermogravimetric study on the ageing of lime wood supports of old paintings”, in **POLYMER DEGRADATION AND STABILITY** (Elsevier), Brighton, (ISSN: 0141-3910), 80, 1 (2003), pp.83-91, Impact Factor = 1,405, Cited Factor = 4,009 (Langmuir) + 0,847 (Chem.Eng.J.) + 3,374 (Talanta) + 3,250 (E-Prezervation Science) + 0,1 (Fire Sci.Tech.) + 0,603 (J.Cult.Herit.) + 2,505 (Microchem.J.) + 1,483 (J.Therm.Anal.Cal.) + 1,857 (Appl.Phys.:A Mater.Sci.Process.) + 0,00 (International Journal of Applied Chemistry) + 1,630 (Journal of thermal Analysis and Calorimetry) + 0,913 (Macromolecular Symposia) + 1,659 ([Thermochemica Acta](#)) + 1,236 (Holzforschung) = 21,553 x 0,3 = 6,466, Author Factor = (1,405+6,466)/5 = **1,574** (C.A. 35977Q);
81. I.C.A. SANDU, C. LUCA, **I. SANDU**, V. VASILACHE, I.G. SANDU, „Research concerning the evaluation of the ageing of some soft wood supports of old painting with preparation layer. III. The thermogravimetric analysis”, in **REVISTA DE CHIMIE**, București, (ISSN 0034-7752), 53, 9, 2002, p.607-616, Impact Factor = 0,281, Author Factor = **0,056** (C.A. 368257I);
82. **I. SANDU**, C. LUCA, I.C.A. SANDU, A. CIOCAN, N. SULIȚANU, „A study on the compatibility of the old, traditional artistical techniques with the new materials and methods used in the restauration, presevation processes. II. A chromatic analysis”, in **REVISTA DE CHIMIE**, București, (ISSN 0034-7752), 52, 9, 2001, p.485-491, Impact Factor = 0,281, Author Factor = **0,056**;
83. I.C.A. SANDU, C. LUCA, **I. SANDU**, M. POHONȚU, „Research regarding the soft wood supports degradation evaluation in old painting, using preparation layers. II. „IR and FTIR spectroscopy”, in **REVISTA DE CHIMIE**, București, (ISSN 0034-7752), 52, 7-8, 2001, p. 409-419, Impact Factor = 0,281, Cited Factor = 3,250 (E-Prezervation Science) + 1,486 (J.Mol.Str.) + 4,25 (Appl.Spectr.Rew.) + 1,707 (Chem.Eng.J.) = 10,693 x 0,3 = 3,208, Author Factor = 0,070 + 0,801 = **0,871**;
84. I.C.A. SANDU, C. LUCA, **I. SANDU**, P. ATYM, „Research regarding the soft wood supports degradation evaluation in old painting, using preparation layers. I. Chemical composition and technical analysis”, in **REVISTA DE CHIMIE**, București, (ISSN 0034-7752), 52, 1-2, 2001, p. 46-52, Impact Factor = 0,281, Cited Factor = 3,250 (E-Prezervation Science) = 3,250 x 0,3 = 0,975, Author Factor = 0,070 + 0,244 = **0,314**;
85. I.C.A. SANDU, C. LUCA, **I. SANDU**, „Study on the compatibility between the old artistic techniques and the new materials and methods for the conservation – restauration interventions. I. Theoretical aspects”, in **REVISTA DE CHIMIE**, București, (ISSN 0034-7752), 51, 7, 2000, pp. 532-541, Impact Factor = 0,281, Author Factor = **0,094**;
86. I.C.A. SANDU, C. LUCA, **I. SANDU**, „A study on the paintings cloth-supports ageing degradation”, in **REVISTA DE CHIMIE**, București, (ISSN 0034-7752), vol.50, nr.12, 1999, pp.902-908, Impact Factor = 0,281, Author Factor = **0,094**;
87. **I. SANDU**, I.GRUIA, II. POPESCU, O. CALANCEA, I.G. SANDU, „Production and characterization of the oxide enriched materials for ceramic varistors. II. Synthesis, chemical and physico-structural analysis, conductive grains doping influence upon the current-voltage characteristics”, in **REVISTA DE CHIMIE**, București, (ISSN 0034-7752), București, 49, nr.11, (1998), p.756-768, Impact Factor = 0,281, Author Factor = **0,094**;
88. **I. SANDU**, I.GRUIA, II. POPESCU, O. CALANCEA, G. LIMIȘCA, I.G.SANDU, „Production and characterization of the oxide enriched materials for ceramic varistors. I. General aspects regarding the production, structure and characteristics of the ceramic varistors”, in **REVISTA DE CHIMIE**, București, (ISSN 0034-7752), 49, nr.10, (1998), p.673-681, Impact Factor = 0,281, Author Factor = **0,047**;

89. **I. SANDU**, N.CALU, II. POPESCU, I.C.A. SANDU, „Preparation and characterization of some active MnO<sub>2</sub> forms having band structure. II. Strange acid-bazic type behaviour”, in **REVISTA DE CHIMIE**, Bucuresti, (ISSN 0034-7752), 49, nr.6, (1998), pp.401- 408, Impact Factor = 0,281, Author Factor = **0,070**;
90. **I. SANDU**, N.CALU, II. POPESCU, I.C.A. SANDU, „Preparation and characterization of some active MnO<sub>2</sub> forms having band structure. I. Reactivity analysis by structural terms”, in **REVISTA DE CHIMIE**, Bucuresti, (ISSN 0034-7752), 49, nr.4, (1998), pp.249-260, Impact Factor = 0,281, Author Factor = **0,070**;
91. A.GULEA, G.NOVIKI, G.TIMKO, **I. SANDU**, „Synthesis and Structure of  $\gamma_3$ -oxocomplex/Co<sub>3</sub>/(Piv)<sub>6</sub>(gamma-Pic)<sub>3</sub>/Piv.6HPiv”, in **JOURNAL OF COORDINATION CHEMISTRY**, New York, vol. 20, no. 4, (1994), pp.267-271, Impact Factor = 0,863, Cited Factor = 0,538 (Russ.Chem.Bull.) + 0,534 (Russ.Coord.Chem.J.) + 0,481 (J.Struct.Chem.) + 2,118 (Inorg.Chem.) = 3,671 x 0,3 = 1,101, Author Factor = 0,216 + 0,275 = **0,491**;
92. A.GULEA, G.NOVIKI, G.TIMKO, **I. SANDU**, „Sintez I stroenie trehiadernovo  $\gamma_3$ -oxocomplexa/Co<sub>3</sub>/(Piv)<sub>6</sub>(gamma-Pic)<sub>3</sub>/Piv.6HPiv, in **KOORDINATSIONNAYA KHIMIYA**, Moskva, (ISSN 1070-3284), tom.20, no. 4, (1994), pp.290-293, Impact Factor = 1,160, Cited Factor = 1,756 (Polyhedron) + 0,688 (Acta Chem.Scand.) + 0,614 (Russ.Coord.Chem.J) + 0,466 (Russ.J.Gen. Chem.) = 3,524 x 0,3 = 1,058, Author Factor = 0,290 + 0,265 = **0,555**;
93. A.GULEA, G. NOVIKI, S. SOVA, M. MASUS, **I. SANDU**, „The Use of NMR Spectroscopy and X-ray Crystal Structure Analyse to Study the Structure of Some Cobalt(II)-Diketonates”, in **JURNAL OF COORDINATION CHEMISTRY**, New York, Vol.19, no.3, (1993), pp. 212-217, Impact Factor = 0,863, Cited Factor = 1,434 (Magn.Res.Chem) + 0,257 (Dokl.Akad.Nauk) = 1,691 x 0,3 = 0,507, Author Factor = 0,173 + 0,101 = **0,274**;
94. A.GULEA, G. NOVIKI, S. SOVA, M. MASUS, **I. SANDU**, „Primenenie metodov IAMR spektropii i rentghenostrukturnovo analiza dlea izucenia ctroenia nekotarih 3-dicetonatih kompleksob kobalta (II)”, in **KOORDINATSIONNAYA KHIMIYA**, Moskva, (ISSN 1070-3284) tom. Vol.19, no. 3, (1993), 227-232, Impact Factor = 1,160, Cited Factor = 2x0,534 (Russ.Coord.Chem.J.) + 5,33 (Chem.:A Eu. J.) + 0,919 (Chemia) + 0,469 (Russ.Chem. Bull.) + 4,147 (Inorganic Chemistry) = 11,933 x 0,3 = 3,58, Author Factor = (1,160 + 3,58)/5 = **0,948**;
95. A. GULEA, G. NOVIKI, S. SOVA, **I. SANDU**, „Etudes de la structure géométrique et de la distribution de la densité électronique de spin pour certains complexes de Co(II), Ni(II) and solution à partir des spectres de RMN”, in **REVUE ROUMAINE DE CHIMIE**, Bucuresti, (ISSN 0035-3930), vol.38, no.5, (1993), pp. 505-514, Impact Factor = 0,286, Cited Factor = 1,434 (Magn.Res.Chem) + 0,919 (Chemia) = 2,353 x 0,3 = 0,706, Author Factor = 0,072 + 0,174 = **0,246**;
96. N.CALU, **I. SANDU**, M.BANGOURA, M.CALU, A.R.IORDAN, „Turning to good account of main components in red slurry II. IR Spectra of different steps of recovery process”, **REVISTA DE CHIMIE**, Bucuresti, (ISSN 0034-7752), vol. 42, nr. 4-5, (1991), pp.226-229, Impact Factor = 0,281, Author Factor = **0,056**;
97. N. CALU, B. MORLAYE, **I. SANDU**, M. CALU, „Turning to good account of main components in red slurry. I. Thermal behaviour in different systems”, in **REVISTA DE CHIMIE**, Bucuresti, (ISSN 0034-7752), vol. 39, nr. 4, (1988), pp. 340-345, Impact Factor = 0,281, Author Factor = **0,070**;
98. **I. SANDU**, N. CALU, I. BERDAN, M. LUPUTIU, „MnO<sub>2</sub> discharge characteristics in dry galvanic elements. I. Study of the discharge potential based on equivalent circuit diagram”, in **REVISTA DE CHIMIE**, Bucuresti, (ISSN 0034-7752), vol. 39,nr. 2, (1988), pp. 143-150, Impact Factor = 0,281, Author Factor = **0,070**, (C.A. 22 L 223/1988), (52- Energy Technology, 25214e, vol 109, 1988);
99. I. BERDAN, **I. SANDU**, „Combinaisons complexes du Tl(III) avec des ligands du type des hétérocycles organiques. III. Spectres d'absorbition infrarouge”, in **REVUE ROUMAINE DE CHIMIE**, București, (ISSN 0035-3930), vol. 33, nr. 1, (1988), pp. 67-74, Impact Factor = 0,286, Cited Author = 0,281 (REV.CHIM.) = 0,281 x 0,3 = 0,084, Author Factor = 0,143 + 0,042 = **0,185**;
100. N.CALU, **I. SANDU**, I. BERDAN, M. LUPUTIU, D. CIURCHEA, „Colloidal graphite – water disperse systems. II. Obtaining and determining of semigraphitized carbon – black water disperse systems”, in **REVISTA DE CHIMIE**, Bucuresti, (ISSN 0034-7752), vol. 38, nr. 4, (1987), pp.307-311, Impact Factor = 0,281, Author Factor = **0,056**;
101. **I. SANDU**, N. CALU, D. CIURCHEA, I. BERDAN, „Water colloidal graphite disperse systems. I. Description of the components”, in **REVISTA DE CHIMIE**, Bucuresti, (ISSN 0034-7752), vol. 37, nr. 11, (1986), pp. 968-974, Impact Factor = 0,281, Author Factor = **0,070**, (C.A. 15 B 2681/1987);
102. N. CALU, **I. SANDU**, „Hydrogen manufacturing out of water by thermochemical cycles using nonstoichiometric oxides of manganese”, in **REVISTA DE CHIMIE**, Bucuresti, (ISSN 0034-7752), vol. 37, nr. 6, (1986), pp.503-504, Impact Factor = 0,281, Author Factor = **0,141**, (C.A. 6 L 143/1987);
103. Al. CECAL, D. CIOBANU, **I. SANDU**, „Use of beta-rays back-scattering in the study of corrosion process of some carbon steel samples in acid solution”, in **REVUE ROUMAINE DE CHIMIE**, București, (ISSN 0035-3930), vol. 31, nr. 4, (1986), pp. 451-456, Impact Factor = 0,286, Cited Author = 0,286 (Rev.Roum.Chim) = 0,286 x 0,3 = 0,086, Author Factor = 0,095 + 0,029 = **0,124**;
104. N. CALU, **I. SANDU**, I. BERDAN, „Préparation et caractérisation de quelques formes actives de dioxyde de manganèse pour les éléments et piles galvaniques sèches”, in **REVUE ROUMAINE DE CHIMIE**, București, (ISSN 0035-3930), vol. 31, nr. 2, (1986), pp. 217-226, Impact Factor = 0,286, Author Factor = **0,095**, (C.A. 4 B 3347/1987);
105. N. CALU, EI. BALANESCU, I. BERDAN, **I. SANDU**, „Combinaisons complexes du Mn(III) et du Mn(IV). II.Le système Mn(III, IV) - acide 2-aminophénol - 4-sulfonique”, in **REVUE ROUMAINE DE CHIMIE**, București, (ISSN 0035-3930),vol. 31, nr. 1, (1986), pp. 71-78, Impact Factor = 0,286, Author Factor = **0,072**, (C.A. 2 B(V)132/1987);
106. I. BERDAN, D.ANCUTA, **I. SANDU**, „Combinaisons complexes du Tl (III) avec des ligands N-donneurs. Etude du système Tl (III) - 2,2'azopyridine”, in **REVUE ROUMAINE DE CHIMIE**, București, (ISSN 0035-3930), vol. 30, nr. 11-12, (1985), pp.1031-1037, Impact Factor = 0,286, Cited Factor = 0,411 (Rev.Chim.), 0,411 x 0,3 = 0,123, Author Factor = 0,095 + 0,041 = **0,136**, (C.A. 2 B(V) 105/1987);
107. **I. SANDU**, N. AELENEI, N. CALU, M. LUPUTIU, „Influence of some immobilization insertions on the properties of the ionic conductor from dry galvanic cells”, in **REVISTA DE CHIMIE**, Bucuresti, (ISSN 0034-7752), vol. 36, nr. 12, (1985), pp.1130-1133, Impact Factor = 0,281, Author Factor = **0,070**, (C.A. 18 L 193/1986);
108. **I. SANDU**, AL. CECAL, St. PETRESCU, V. ȘUNEL, „On the filtration of some hardly filtrable actinomycetes”, in **REVUE ROUMAINE DE BIOCHIMIE**, București, (0001-4214), vol. 21, nr. 3, (1984), pp.207-217, Impact Factor = 0,176, Author Factor = **0,044**;

109. N. CALU, Ad. RANG, Al. CECAL, I. BERDAN, I. SANDU, „Water treatment process with ammonium – ions and ammonia recovery”, in *REVISTA DE CHIMIE*, București, (ISSN 0034-7752), vol. 32, nr. 9, (1981), p.896-902, Impact Factor = 0,281, Author Factor = 0,056;

E. Papers published in International Journals in BDI, non ISI (29):

1. D. APARASCHIVEI, V. VASILACHE, I. SANDU, *A Study on Specific Archaeometric Characteristics of Garment Accessories Found in the Ibida Site, Romania*, *INTERNATIONAL JOURNAL OF CONSERVATION SCIENCE*, 3, 1, 2012, pp. 23-32;
2. V.E. COPCIA, I. SANDU, N. BILBA, S. DUNCA, *Silver Loaded Clay and Investigation of their Antimicrobial Activity*, *CHEMISTRY JOURNAL OF MOLDOVA*, Kishinew, 1, 1, 2012, pp. 122-124;
3. G. DROCHIOIU, I. SANDU, R. GRADINARU, G. ZBANCIOC, I. MANGALAGIU, *Ninhydrin-based Forensic Investigation II. Cyanide Analytical Toxicology*, *INTERNATIONAL JOURNAL OF CRIMINAL INVESTIGATION*, 1, 4, 213-226, 2011;
4. I. SANDU, V. VASILACHE, I.G. SANDU, M. BRÂNZILĂ, A. V. SANDU, „Modern Aspects of Integrated Conservation Science for Bronze Artifacts”, *INTERNATIONAL JOURNAL OF CRIMINAL INVESTIGATION*, 1, 2, 67-74, 2011;
5. V. VASILACHE, D. APARASHIVEI, I. SANDU, „A Scientific Investigation of the Ancient Jewels Found in the Ibida Site, Romania”, *INTERNATIONAL JOURNAL OF CONSERVATION SCIENCE*, 2, 2, 117-126, 2011;
6. G. DROCHIOIU, I. SANDU, G.I.OLTEANU, I. MANGALAGIU, „Ninhydrin-based Forensic Investigation I. Fingerprints”, *INTERNATIONAL JOURNAL OF CRIMINAL INVESTIGATION*, 1, 1, 37-58, 2011;
7. M. HAYASHI (林 美木子), N. MACCHIONI (ニコラ マッキオーニ), P. TIANO (ピエロティアノ), N. YOSHIDA (吉田直人), C. SANO (佐野 千絵), I. SANDU (イオン サンツ), „The Effect of Traditional Preservative Interventions for Panel Painting (板絵の伝統的予防処理方法とその効果)”, *HOZON KAGAKU (SCIENCE FOR CONSERVATION)*, (ISSN 0287-0606), no. 49, 2010, pp. 197-206;
8. A.V. SANDU, C. BEJINARIU, A. PREDESCU, I.G. SANDU, C. BACIU, I. SANDU, „New mechanisms for chemical phosphatation of iron objects”, *RECENT PATENT ON CORROSION SCIENCE*, (ISSN 1877-6108), Bentham Science Publishers, 1, 33-37, 2011;
9. I. SANDU, M. BRÂNZILĂ, O.-G. IANCU, I.G. SANDU, V. VASILASCHE, A.V. SANDU, „The current state of conservation of Romanian stone monuments”, *SCIENTIFIC ANNALS OF THE SCHOOL OF GEOLOGY (Aristotel University of Thessaloniki, Greece)* (ISBN 978-960-9502-02-3), 100, Special Issue, 2010, pp. 421-428;
10. I. SANDU, N. VOLOVĂȚ, A.V. SANDU, „Actual aspects for encouragement of technical creativity”, *INTELLECTUS*, (ISSN 1810-7079), Chișinău, vol. 16, no. 3, 2010, pp. 86 – 92;
11. I. SANDU, N. VOLOVĂȚ, I.G. SANDU, „The harmonization on inventions law for the protection of both the intellectual and industrial properties”, *INTELLECTUS*, (ISSN 1810-7079), Chișinău, vol. 16, no. 2, 2010, pp. 107 – 113;
12. I.K. KOUAME, B. DIDI, K. KOFFI, I. SAVANE, I. SANDU, *Statistical Approach of Assessing Horizontal Mobility of Heavy Metals in the Soil of Akouedo Landfill Nearby Ebrie Lagoon (Abidjan-Cote D'Ivoire)*, *INTERNATIONL JOURNAL of CONSERVATION SCIENCE* (Print ISSN 2067-533X, Online 2067-8223), „Al.I.Cuza” University of Iasi, 1, 3, (2010), p. 156-162;
13. J.M. SIELIECHI, G. J. KAYEM, I. SANDU, *Effect of Water Treatment Residuals (Aluminum and Iron Ions) on Human Health and Drinking Water Distribution Systems*, *INTERNATIONL JOURNAL of CONSERVATION SCIENCE* (Print ISSN 2067-533X, Online 2067-8223), „Al.I.Cuza” University of Iasi, 1, 3, (2010), p. 175-182;
14. I. SANDU, V. COTIUGA, A.V. SANDU, A.C. CIOCAN, G.I. OLTEANU, V. VASILACHE, *New Archaeometric Characteristics for Ancient Pottery Identification*, *INTERNATIONL JOURNAL of CONSERVATION SCIENCE* (Print ISSN 2067-533X, Online 2067-8223), „Al.I.Cuza” University of Iasi, 1, 2, (2010), p. 75-82;
15. O. MIRCEA, I. SANDU, I.SARGHIE, A.V. SANDU, „The Identified Effects of Degradation in Archaeological Artifacts with Overlapped Metals Used in Authentication”, *INTERNATIONL JOURNAL of CONSERVATION SCIENCE* (Print ISSN 2067-533X, Online 2067-8223), „Al.I.Cuza” University of Iasi, 1, 1, (2010), p. 27-40;
16. T. VASILACHE, S. GUTT, I. SANDU, V. VASILACHE, Gh. GUTT, M. RASCA, A.V. SANDU, „Electrochemical Mechanism of Nickel and Zinc-Nickel alloy Electrodeposition Studied with the Electrochemical Quarz Crystal Microbalance”, *RECENT PATENT ON CORROSION SCIENCE*, Bentham Science Publishers, (ISSN 1877-6108), doi:10.2174/1877610801002010001, 2, 2010, pp.1 - 6;
17. I. SANDU, „Generating Factors of the Creative Process”, in *INTELLECTUS*, (ISSN 1810-7079), Chișinău, vol. 15, nr. 4, 2009, 73 – 80;
18. I. SANDU, I.G. SANDU, A.V. SANDU, „The ethic aspects of the intellectual property (II).”, in *INTELLECTUS*, (ISSN 1810-7079), Chișinău, vol. 14, nr. 3, 2008, 86 – 94;
19. I. SANDU, I.G. SANDU, A.V. SANDU, „The ethic aspects of the intellectual property (I).”, in *INTELLECTUS*, (ISSN 1810-7079), Chișinău, vol. 14, nr. 2, 2008, 92– 97;
20. I. SANDU, I.C.A. SANDU, I.G. SANDU, „Interdisciplinary chemical effects involved in inventics. (II).”, in *INTELLECTUS*, (ISSN 1810-7079), Chișinău, vol. 13, nr. 4, 2007, 68 – 74;
21. I. SANDU, I.C.A. SANDU, I.G. SANDU, „Interdisciplinary chemical effects involved in inventics. (I).”, in *INTELLECTUS*, (ISSN 1810-7079), Chișinău, vol. 13, nr. 3, 2007, 53 – 61;
22. I. SANDU, I.G. SANDU, „Education in the field of Inventics. (V).” in *INTELLECTUS*, (ISSN 1810-7079), Chișinău, vol. 13, nr. 2, 2007, 100-104;
23. I. SANDU, I.G. SANDU, „Education in the field of Inventics. (IV).” in *INTELLECTUS*, (ISSN 1810-7079), Chișinău, vol. 13, nr. 1, 2007, 110 – 113;
24. I. SANDU, I.G. SANDU, „Education in the field of Inventics. (III).” in *INTELLECTUS*, (ISSN 1810-7079), Chișinău, vol. 12, nr. 4, 2006, p. 92 - 96;

25. I. SANDU, I.G. SANDU, „Education in the field of Inventics. (II).” in INTELLECTUS, (ISSN 1810-7079), Chişinău, vol. 12, nr. 3, 2006, p. 99 - 104;
26. I. SANDU, I.G. SANDU, „Education in the field of Inventics. (I).” in INTELLECTUS, (ISSN 1810-7079), Chişinău, vol. 12, nr. 2, 2006, p. 93 - 98;
27. I. SANDU, „The use of colorimetric analysis in authentication, conservation state determination end in compatibility studies of cromatic reintegrations”, TECHNOLOGY OFFERS END REQUESTS (<http://www.transfer.edu.pl>), Ed. Innovation, Cracovia, 2002, p. 7-10;
28. I. SANDU, „Synergic organic solution for the conservation of polychrome wood”, TECHNOLOGY OFFERS END REQUESTS, (<http://www.transfer.edu.pl>), Ed. Innovation, Cracovia, 2002, p.11-14;
29. I. SANDU, „Methods for age determination of organic and inorganic materials from the structure of Cultural Heritage objects”, TECHNOLOGY OFFERS END REQUESTS (<http://www.transfer.edu.pl>), Ed. Innovation, Cracovia, 2002, p. 15-18.

F. Papers Published in International Proceeding with ISBN or ISSN, non ISI, in Europa and Asia (69):

1. V. SIRBU, I. SANDU, *Forensic Biology as a Special Field of Education*, Forensic Science Symposium, Shanghai, China, 2012;
2. V. COPCIA, I. SANDU, C. HRISTODOR, N. BILBA, S. DUNCA, *Antimicrobial activity of silver nanoparticles incorporates in clay and clinoptilolite volcanic tuff*, 14<sup>th</sup> JCF Frühjahrssymposium (Yang Scientific Conference on Chemistry), 18-21 March 2012, Rostock University, P26, p.75.
3. M. URSESCU, A.-C. CIOCAN, L. URSU, I. SANDU, *Reflection micro-FTIR and Raman Spectroscopic Studies of 19th Century Romanian Manuscripts*, IRUG10, Barcelona, 28-30 Mart 2012;
4. O. MIRCEA, I. SANDU, V. VASILACHE, I.G. SANDU, *Influence of the Environmental Factors on Deterioration and Degradation Processes of Some Artifacts by Copper Alloys*, **The 5<sup>th</sup> International Conference Ecological Chemistry 2012**, Ed. State University of Chisinau (ISBN 978-9975-71-097-8), 2012, pp. 96-97, Session C. Ecological Chemistry of Soil, 2 – 3 March, Chişinău, 2012, P.20, [http://ecochem2012.mrda.md/?page\\_id=226](http://ecochem2012.mrda.md/?page_id=226);
5. V.E. COPCIA, I. SANDU, N. BILBA, S. DUNCA, *Silver Loaded Clay and Investigation of Their Antimicrobial Activity*, **The 5<sup>th</sup> International Conference Ecological Chemistry 2012**, , Ed. State University of Chisinau (ISBN 978-9975-71-097-8), 2012, pp. 108-109, Session D. Ecological chemistry and healthy life style, 2 – 3 March, Chişinău, 2012, P.21, [http://ecochem2012.mrda.md/?page\\_id=226](http://ecochem2012.mrda.md/?page_id=226);
6. L.G. GHERMAN, I. SANDU, V. VASILACHE, A.V. SANDU, V.E. COPCIA, *Ecological Materials Used in Preservation and Restoration of Old Wood*, **The 5<sup>th</sup> International Conference Ecological Chemistry 2012**, Session E., Ecological chemistry and sustainable development, 2 – 3 March, Chişinău, 2012, P. 3, [http://ecochem2012.mrda.md/?page\\_id=226](http://ecochem2012.mrda.md/?page_id=226);
7. L. CHIRILA, R. BUTNARU, I. SANDU, V. VASILACHE, M. M. TARLEA „Water pollution reduction by using new premetallised dyes in dyeing wool”, 6<sup>th</sup> International Conference on Environmental Engineering and Management ICEEM 06, 1 – 4 September 2011, Balatonalmádi, Hungary;
8. V. VASILACHE, C. FILOTE, M.A. CRETU, I. SANDU, V. COISIN, T. VASILACHE, „Monitoring of groundwater quality in some vulnerable areas in Botosani County - nitrates and nitrites based pollutants”, 6<sup>th</sup> International Conference on Environmental Engineering and Management ICEEM 06, 1 – 4 September 2011, Balatonalmádi, Hungary;
9. I. SANDU, V. VASILACHE, I.C.A. SANDU, M. BRANZILĂ, O. MIRCEA, „Archaeometric Characteristics of Ancient Bronzes”, *Colloque Archeometrie 2011*, Liege 11-16.Apr. 2011, p. 303;
10. I. SANDU, V. VASILACHE, I.C.A. SANDU, „New Archaeometric Characteristics For Old Wood”, *Colloque Archeometrie 2011*, Liege 11-16.Apr. 2011, p.357;
11. C. BEJINARIU, A.V. SANDU, L.G. BUJOREANU, I. IONITA, I. SANDU, „Obtaining and Characterization of Phosphated Lubricant Layer on Iron Objects”, in *Proceeding of the 15<sup>th</sup> International Metallurgy & Materials Congres*, 2010, Kasim Istanbul Turkey, p. 271;
12. F. IACOMI, A.P. RAMBU, C. DOROFTEI, D. LUCA, G.G. RUSU, M. PURICA, R. GAVRILA, I. SANDU, „Structure and electro-optical properties of  $In_{2-x}Sn_xZn_yO_{3-\delta}$  thin films”, in *3rd International Symposium on Transparent Conductive Materials (former TCO)*, 17 - 21 October, 2010 Analipsi / Hersonissos, Crete, Greece;
13. M.-L. CRAUS, C. MIȚA, N. CORNEI, I. SANDU, „Influence of Mn substitution with V on magnetic and crystalline structure of  $La_{0.54}Mo_{0.11}Mn_{1-x}V_xO_3$  manganites”, *Seventh International Conference on INORGANIC MATERIALS*, 12-14 Septmeber 2010, Bellevue Centre, Biarritz, France;
14. I. SANDU, G.I. OLTEANU, I.G. SANDU, V.VASILACHE, A.V. SANDU, „Direcții actuale privind investigarea științifică a artefactelor din ceramică”, *Proceedings of the International Simpoziu CUCUTENI-5000 REDIVIVUS* (ISBN 978-9975-45-094-2), Chişinău, Technical University Press, 2010, p. 47 - 54;
15. I. SANDU, V. COTIUGĂ, A.V. SANDU, V. VASILACHE, „Aspecte moderne privind conservarea științifică integrată a artefactelor din ceramică”, *Proceedings of the International Simpoziu CUCUTENI-5000 REDIVIVUS* (ISBN 978-9975-45-094-2), Chişinău, Technical University Press, 2010, p. 39 - 46;
16. F. IACOMI, M. PURICA, E. BUDIANU, I. SANDU, D. MACOVEI, „Effect of Dopants on the Structural and Electro-Optical Properties of CdS Thin Films”, **EMRS 2010**, Section F:Advances in transparent electronics: from materials to devices,
17. F. IACOMI, G. CALIN, C. SCARLAT, I. SANDU, D. MACOVEI, „Studies on the structure and magnetic properties of Co:ZnO thin films”, **EMRS 2010**, Section F:Advances in transparent electronics: from materials to devices,
18. M. QUARANTA, A. CIOCAN, I. SANDU, „Non-destructive characterization of bronze corrosion products by means of diffused and specular micro-FTIR spectroscopy”, 5th International Conference on the application of **Raman Spectroscopy in Art and Archaeology**, Ed. (ISBN 978-84-9860-273-9), Bilbao, Spain, 2009, p. 182;
19. F. IACOMI, M. PURICA, E. BUDIANU, I. SANDU, D. MACOVEI, „Effect of Dopants on the Structural and Electro-Optical Properties of CdS Thin Films”, **The E-MRS 2009 Spring Meeting**, Strasbourg (France), 2009, Materials Issues for Oxide Electronics, Section F. Advances in Transparent Electronics: From Materials to Devices (8.37.);

20. F. IACOMI, G. CALIN, C. SCARLAT, **I. SANDU**, D. MACOVEI, "Studies on the structure and magnetic properties of Co:ZnO thin films", in **The E-MRS 2009 Spring Meeting**, Strasbourg (France), 2009, Materials Issues for Oxide Electronics, Section F. Advances in Transparent Electronics: From Materials to Devices (8.38.);
21. M. HAYASHI, V. VASILACHE, N. MACCHIONI, C. CAPRETTI, **I. SANDU**, "Impact of moisture conditioning on polychrome wood with artificial tempera", **Cultural Heritage Meet Practice** (ed. J. Kolar, M. Strlic) **Proceeding of 8<sup>th</sup> European Conference on Research for Protection, Conservation and Enhancement of Cultural Heritage**, Ed. National and University Library (ISBN 978-961-6551-25-0), Ljubljana, 2008, p. 94-96;
22. **I. SANDU**, C. LUCA, I.C.A. SANDU, V. VASILACHE, I.G. SANDU, "Non-destructive method used in the monitoring of restoration interventions on the medieval frescoes", In **Situ Monitoring of Monumental Surfaces** (ed. P. Tiano, C. Pardini), Ed. Edifir (ISBN 978-88-7970-390-1), Firenze, 2008, p. 427- 432;
23. I.C.A SANDU, S. BRACCI, **I. SANDU**, "The Art of Light in and from the sacred colors: a methodological approach to the study of ancient icons", **Proceeding of Science Meets Archaeology and Art History, Balkan Symposium on Archaeometry**, Ed. Cobiss (ISBN 978-9989-668-72-2), Skopje, 2008, p. 71-73;
24. **I. SANDU**, "Modern aspects concerning the valorisation of cultural heritage", **Proceedings of the International Simpoziom CUCUTENI-5000 REDIVIVUS** (ISBN 978-9975-45-094-2), Chişinău, Technical University Press, 2008, p. 92 - 103;
25. N. VRINCEANU N., D. COMAN, A. GRIGORIU, **I.SANDU**., "Hydrophilic Surface Patterning of Polyamide Textile Materials, Using Excimer UV Laser Treatment", **ITC&DC: 4<sup>th</sup> INTERNATIONAL TEXTILE CLOTHING & DESIGN CONFERENCE, BOOK OF PROCEEDINGS**, 2008, p. 482-486;
26. I.C.A SANDU, S. BRACCI, **I. SANDU**, "Colorimetric Investigation of ancient icons: characterstics of the chromatic palette and evaluation of cleaning effects", **Proceedings of the COLOURS 2008 - Bringing Science with Art**, Evora, 10-12 July 2008, Colegio do Espirito Santo - Universidade de Evora, pag. 77-78;
27. M. QUARANTA, **I. SANDU**, "Microstratigraphy of copper-based archaeological objects: description of degradation mechanisms by means of an integrated approach", in **Proceedings of the ART 2008-9**, Ed. ISAS, Jerusalem, Israel, 2008, Paper. no. 147, [www.ndt.net/article/art2008/papers/147Quaranta.pdf](http://www.ndt.net/article/art2008/papers/147Quaranta.pdf);
28. G. CIOBANU, G. CARJA, S. RATOI, O. CIOBANU, **I. SANDU**, "Bioactive hydroxyapatite coating on polyurethane implants", in **Proceedings of the International Simpoziom E-MRS 2008 FALL MEETING**, Warsaw, 2008, p. 247 (Science24.com/conferences);
29. M. QUARANTA, **I. SANDU**, "Copper – based archaeological artefacts: A stratigraphical study of the patina", in **Proceedings of the 37<sup>th</sup> International Symposium on ARCHAOMETRY** (ISBN 88-89027-03-6), Fondazione Monte dei Paschi di Siena, Italy, 2008, p 421 - 422;
30. **I. SANDU**, D.S. NOUR, I.G. SANDU, V. VASILACHE, A.V. SANDU, "In Situ Monitorisation of the Frescoes Restauration Behaviour for Probota Monastery (Romania)", in **Proceedinds of the 1<sup>st</sup> World Conference on GLOBAL CLIMATE CHANGE AND ITS IMPACT ON STRUCTURES OF CULTURAL ERITAGE** (ISBN: 978-981-08-0409-1), Ed. CI-Premier Pte Ltd., Singapore - Macao SAR, 2008, p. 83-89;
31. I.G. SANDU, A. DIMA, **I. SANDU**, "Scientific integrated conservation as interdisciplinary system", in **Proceedings of the International Simpoziom CUCUTENI-5000 REDIVIVUS** (ISBN 978-9975-9841-2-6), Chişinău, Technical University Press, 2007, p. 125 - 137;
32. F. IACOMI, M. PUNICA, E. BUDIANU, **I. SANDU**, "Effect of Sb, Sn Dopants on the Strctural and Electro-Optical Properties of CdS Thin Films (I)", **E-MRS SPRING MEETING**, Strasbourg, 2007, p 127- 132;
33. **I. SANDU**, M. QUARANTA, I.G. SANDU, "The determination of archaeological patina components of ancient bronze artifacts", in **Proceedings of the II<sup>nd</sup>, International Conference of the Chemical Society of the Republic of Moldova, „ACHIEVEMENTS AND PERSPECTIVES OF MODERN CHEMISTRY”**, Chişinău, 1-3 octombrie 2007, p. 144;
34. **I. SANDU**, M. HAYASHI, I.C.A. SANDU, "Evaluation of some physical-structural and chemical characteristics with chronological evolution for old wood for authentication", in **Proceedings of the II<sup>nd</sup>, International Conference of the Chemical Society of the Republic of Moldova, „ACHIEVEMENTS AND PERSPECTIVES OF MODERN CHEMISTRY”**, Chişinău, 1-3 octombrie 2007, p. 145;
35. **I. SANDU**, "Involvement of chemistry in the integrated conservation of cultural heritage", in **Proceedings of the II<sup>nd</sup>, International Conference of the Chemical Society of the Republic of Moldova, „ACHIEVEMENTS AND PERSPECTIVES OF MODERN CHEMISTRY”**, Chişinău, 1-3 octombrie 2007, p. 34;
36. G. CIOBANU, G. CARJA, O. CIOBANU, **I. SANDU**, A.V. SANDU, "SEM and EDX studies of bioactive coatings on titanium implants", in **Proceedings of the International Simpoziom E-MRS 2007 FALL MEETING**, Warsaw, 17-21 Septembrie 2007, p. 137;
37. O. PETREUŞ, C. HAMCIUC, **I. SANDU**, "Active products in polymeric matricial systems for wood protection", in **Proceedings of the BILATERAL SYMPOSIUM „FUNCTIONAL POLYMERS”**, Potsdam, Germania, 2006, progr. pg. 2, CD conf. 15;
38. **I. SANDU**, I. G. SANDU, I. CARCEA, A. ALEXANDRU, "Authentication of Bronze Artifacts Through the Study of the Archaeological Patina", in **Proceedings of the FUUH'06 (DOCUMENTATION FOR CONSERVATION AND DEVELOPMENT NEW HERITAGE STRATEGY FOR THE FUTURE)**, Ed. University Press (ISBN 88-8453-494-1), Florence, 2006, p. 377-378;
39. I. C. A. SANDU, S. BRACCI, **I. SANDU**, "Authentication of Ancient Paintings Through the Study of the Chronological Modifications of The Pictorial Materials", in **Proceedings of the FUUH'06 (DOCUMENTATION FOR CONSERVATION AND DEVELOPMENT NEW HERITAGE STRATEGY FOR THE FUTURE)**, Ed. University Press (ISBN 88-8453-494-1), Florence, 2006, p. 375-376;
40. **I. SANDU**, I. C. A. SANDU, I.G. SANDU, "The Elements for Authentication Expertise used in the Evaluation of Artworks", in **Proceedings of the FUUH'06 (DOCUMENTATION FOR CONSERVATION AND DEVELOPMENT NEW HERITAGE STRATEGY FOR THE FUTURE)**, Ed. University Press (ISBN 88-8453-494-1), Florence, 2006, p. 467-468;
41. **I. SANDU**, O. PETREUS, N. LUTA, C. HAMCIUC, V. VASILACHE, "New Systems Involved In The Conservation Of Ancient Wood, in **Proceedings of the FUUH'06 (DOCUMENTATION FOR CONSERVATION AND DEVELOPMENT NEW HERITAGE STRATEGY FOR THE FUTURE)**, Ed. University Press (ISBN 88-8453-494-1), Florence, 2006, p.353-354;
42. **I. SANDU**, I.C.A. SANDU, I. G. SANDU, "The premises for the organization of a village museum in open air", in **LA TUTELA DELL'ARCHITETTURA RURALE NELL'EVOLUZIONE DEL SISTEMA PRODUTTIVO (De Ruralibus Locis)**, editori Stela Agostini e Agnese Serra, (ISBN 88-89028-02-5), Societa Editrice, Firenze, 2005, p.557-572;



43. **I. SANDU**, A. GULEA, C. LUCA, G. NOVIŢKI, I.C.A. SANDU, „*Studies on Reaction System Pd(II) – 2,6 – Diaminotoluene*”, in *Proceedings of the XII<sup>th</sup> MEJDUNARODNAJA CIUGAEVSKAJA KONFERENŢIJA PO KOORDINAŢIONNOI HIMII*, Ed. A.N. Moldovi (ISBN 9975-62-136-8), Chişinău, 2005, p. 255-256;
44. **I. SANDU**, N. SULIŢANU, A. DIMA, I.C.A. SANDU, I. G. SANDU, „*Interdisciplinary processing of the degradation and deterioration cumulative effects. I.*” *Proceedings of the 7<sup>th</sup> International Symposium of WORLD HERITAGE CITIES (OWHC)*, Ed. Technograph, Priftis, (ISBN 960-86235-2-9), Rhodes, Greece, 2003, <http://www.ovpm.org>, 072. doc.;
45. **I. SANDU**, A. DIMA, I.C.A. SANDU, I. G. SANDU, N. SULIŢANU, „*Place and Scope of Scientific Investigation in Training Future Conservators and Restorers*”, *Proceedings of the 7<sup>th</sup> International Symposium of WORLD HERITAGE CITIES (OWHC)*, Ed. Technograph, Priftis, (ISBN 960-86235-2-9), Rhodes, Greece, 2003, <http://www.ovpm.org>, 105. doc.;
46. **I. SANDU**, C. LUCA, I.C.A. SANDU, I. G. SANDU, N. SULIŢANU, „*Thermal Methods Implications in Old Cultural Heritage Objects Dating*”, in *Proceedings of the 7<sup>th</sup> International Symposium of WORLD HERITAGE CITIES (OWHC)*, Ed. Technograph, Priftis, (ISBN 960-86235-2-9), Rhodes, Greece, 2003, <http://www.ovpm.org>, 073. doc.;
47. **I. SANDU**, A. DIMA, I.C.A. SANDU, I. G. SANDU, N. SULIŢANU, „*Artificial ageing to date historic objects*”, in *Proceedings of the Cultural Heritage Research a Pan-European Challenge*, (<http://www.Cordis.lu/eesd/ka4/library.htm>; <http://www.heritage.xtd.pl>), Ed. Drukarnia Skleniarz (ISBN 92-894-4412-6), Krakow, Poland (2003), p. 393-395;
48. **I. SANDU**, N. SULIŢANU, I.C.A. SANDU, I. G. SANDU, „*Strategy to develop cultural and natural parks in Romania*”, in *Proceedings of the Cultural Heritage Research a Pan-European Challenge*, <http://www.Cordis.lu/eesd/ka4/library.htm>; <http://www.heritage.xtd.pl>), Ed. Drukarnia Skleniarz (ISBN 92-894-4412-6), Krakow, Poland (2003), p. 347-349;
49. **I. SANDU**, A. DIMA, I.C.A. SANDU, I.G. SANDU, N. SULITANU, *place and scope of scientific investigation in training future conservators and restorers*, SEVENTH INTERNATIONAL FORUM UNESCO – UNIVERSITY AND HERITAGE SEMINAR, Concurrent session 5A, Theme: Cultural Heritage and education, Yarmouk Universit, Irbid – Jordan, 16 -20 December 2002, [http://universidadypatrimonio.net/eng/seminarios/2002\\_VII\\_SIFU/doc/Dossier\\_ENG.pdf](http://universidadypatrimonio.net/eng/seminarios/2002_VII_SIFU/doc/Dossier_ENG.pdf).
50. **I. SANDU**, A. DIMA, I.C.A. SANDU, I.G. SANDU, N. SULITANU, *Thermal Methods Implications in Old Cultural Heritage Objects Dating*, SEVENTH INTERNATIONAL FORUM UNESCO – UNIVERSITY AND HERITAGE SEMINAR, Concurrent Session 8A: Theme: Management and Development of Cultural Heritage, Yarmouk Universit, Irbid – Jordan, 16 -20 December 2002, [http://universidadypatrimonio.net/eng/seminarios/2002\\_VII\\_SIFU/doc/Dossier\\_ENG.pdf](http://universidadypatrimonio.net/eng/seminarios/2002_VII_SIFU/doc/Dossier_ENG.pdf).
51. **I. SANDU**, A.DIMA, N. SULITANU, I.C.A. SANDU, I.G. SANDU, *Interdisciplinary Processing of the Degradation and Deterioration Cumulative Effects*, SEVENTH INTERNATIONAL FORUM UNESCO – UNIVERSITY AND HERITAGE SEMINAR, Concurrent Session 10B. Theme: Conservation of Cultural Heritage, Yarmouk Universit, Irbid – Jordan, 16 -20 December 2002, [http://universidadypatrimonio.net/eng/seminarios/2002\\_VII\\_SIFU/doc/Dossier\\_ENG.pdf](http://universidadypatrimonio.net/eng/seminarios/2002_VII_SIFU/doc/Dossier_ENG.pdf).
52. N. SULIŢANU, **I. SANDU**, „*AFM and STEM controll of the nanostructure evolution in electrodeposited Fe-S alloy thin Films*”, in ECASIA'01, Avignon (Franţa), 2001, p. 228-236;
53. N. SULIŢANU, F. BRĂNZĂ, **I. SANDU**, „*Nanostructured Fe-S Films with Columnar Granes and Perpendicular Magnetic Anisotropy*”, in MSCMP '01, Kishinev, 2001, p. 206-214;
54. **I. SANDU**, I.C.A. SANDU, „*Opinions about the implication of the patrimonial ground on the complex pointing out of the old paintings*”, in *Proceedings of the FIRST INTERNATIONAL WORKSHOP OF THE EXPERTS ON ART PAINTINGS DIAGNOSTIC METHODOLOGIES*, Ormylia, Thesalonic, 2000, p 161-178;
55. **I. SANDU**, A. GULEA, S. SOVA, G. NOVITKI, „*Sinteza si studiul sistemului de reactie Pd(II) - 2,6 diaminotoluen*”, NAUCINAJA KONFERINTAJA, Kisinev, 1993, p. 168-169;
56. **I. SANDU**, A. GULEA, „*Structura si reactivitatea cuplurilor redox monofazice*”, in NAUCINAJA KONFERINTAJA, Kisinev, 1993, p. 129-130;
57. **I. SANDU**, D. COZMA, „*Metoda originala pentru determinarea activitatii electrochimice a oxizilor superiori ai metalelor tranzitionale din seria 3d*”, in METODIKA DIDAKTIKA NAUCINAJA KONFERINTAJA, Kisinev, 1993, p. 97-99;
58. C. LUCA, **I. SANDU**, FI. SIMIONESCU, Cr. RUSA, „*Compusi de incluziune cu macromolecula*”, XVIII th Congress of the Romanian - American Academy of Sciences and Arts, Kishinaw, 1993, p. 46-48;
59. **I. SANDU**, Gh. MIHAILA, M. LUPUTIU, „*Cathodes of non-stoichiometric oxyhalogenic and chalcogenic type for water activable cells*”, in MABat'91, Warshaw, I, (paper 34), (1991), p.134-152;
60. S. SOVA, M. MAZUS, G. NOVITKI, **I. SANDU** A. GULEA, „*Isledovanie poliedriceskom izomerii Co(C<sub>6</sub>H<sub>5</sub>COO)<sub>2</sub>(Gama-Pic)<sub>2</sub> metodom renghenosturtnovo analiza i laMR spektroskopii*”, KRISTALOHIMIJA, Lwow, vol. VI, nr. 8, (1992), p.187-189;
61. **I. SANDU**, M. LUPUTIU, Gh. MIHAILA, M. CALU, „*Non - aqueous Li - I<sub>2</sub>, C cells with N-cetylpyridinium bromide doped "in situu" with Lil<sub>x</sub> as electrolyte*”, in MABat'91, Warshaw, 1991, p.126-127;
62. **I. SANDU**, N. CALU, Gh. MIHAILA, M. LUPUTIU, „*Unique and Interesting Acido-Bazic Behaviour of Active Manganese Dioxide for Dry Batteries*”, MABat'91, Warshaw, 1991, p.128-129;
63. A. GULEA, G. NOVITKI, S. SOVA, **I. SANDU**, „*laMR ctrukturnie isledovania aduktov diketonatnih kompleksov Co(II) si Ni(II) aromateskimi aminami pri nomosci dipolearnih povernosti*”, NAUCINAJA KONFERINTAJA, Kisinev, 1990, p. 152-157;
64. N. CALU, **I. SANDU**, I. BERDAN, M. LUPUTIU, L. POPA, „*Manganese recovery as active MnO<sub>2</sub> out of used up Leclanché cells*”, MABat'88, Poznan (Polonia), vol.II, (paper 42), p.370-384;
65. L. POPA, M. LUPUTIU, **I. SANDU**, „*Zinc recovery as zinc oxyde out of used-up Leclanché cells*”, MABat'88, Poznan (Polonia), vol.II, (paper 39), p.333-346;
66. **I. SANDU**, I. ROSCA, N. CALU, I. BERDAN, „*Organiceskie katodi dlea aktiviziruemih elementov (II), Sovmestimosti sumativnii redoks - sistem MnO<sub>2</sub>-RNO<sub>2</sub>*”, MATERIALI'85, Poznan - Budapesta - Moscova, Ed. INTERELECTRO, CAER, 1985, p.136-152;
67. N. CALU, Anișoara BOLD, **I. SANDU**, I. BERDAN, „*Polucenie i harakteristika nelkatorih aktivnih form MnO<sub>2</sub> dlea galvaniceski syhjih elementov i bateriei*”, MATERIALI'85, Poznan - Budapesta - Moscova, Ed.INTERELECTRO, CAER, 1985, p.148-158;

68. N. CALU, **I. SANDU**, I. BERDAN, „*Gheteropolikisloti dlea fotogalvaniskih elementov*”, **MATERIALI'85**, Poznan - Budapesta - Moscova, Ed. INTERELECTRO, CAER, 1985, p.162-167;
69. N. CALU, I. BERDAN, A. BĂRSĂNESCU, **I. SANDU**, „*Analytical and Electrochemical Characterisation of some Forms of active MnO<sub>2</sub>*”, in **EUROANALYSIS**, Cracovia, 5, 12, (1984), p.377-380.

**G. Papers Published in International Proceeding with ISBN or ISSN, non ISI, national edited (92):**

1. G. MARUSIC, **I. SANDU**, V. MORARU, C. FILOTE, V. BEȘLIU, N. ȘEVCENCO, B. ȘTEFĂNESCU, C. CIUFUDEAN, V. VASILACHE, A. CREȚU, *Modelarea evoluției spațio-temporale a dispersiei fluorului în sistemele de tip „râu”*, **International Conference C-ANMBES 2012**, 24-27 May, Brasov,
2. F. IACOMI, A. LAZAR, R. FRUNZA, R. ROTARU, A. CARLESCU, **I. SANDU**, M. PURICA, R. GAVRILA, *Electric and Optical Properties of In<sub>2</sub>X-YSnxZnyO<sub>3</sub>-δ Thin Films*, **International Semiconductor Conference**, 16-19 oct. 2011, Sinaia, National Institute for Research and Development in Microtechnologies-Bucuresti;
3. **SANDU**, G. SCUTARITA, I.C.A. SANDU, V.VASILACHE, „*Modern Materials and Methods of Preservation of Ancient Polychrome Wood*” **8<sup>th</sup> International Conference “Wood Science and Engineering in the Third Millennium” - ICWSE 2011**, Ed. TRANSILVANIA University of Brasov (ISSN 1843-2689), 2011, pp. 385-395;
4. L.G. GHERMAN, **I. SANDU**, V. VASILACHE, A.V. SANDU, „*Comportamentul lemnului în diferite medii climatice*”, **PRESENT ENCIRONMENT & SUSTAINABLE DEVELOPMENT**, „Al. I. Cuza” University of Iași, 14-16 Oct. 2011, Poster 11 (<http://www.pesd.ro/Symposium%20Information.html>);
5. M. CANACHE, **I. SANDU**, M. CHIRAZI, T. LUPASCU, C. PASCU, „*Determinarea și monitorizarea factorilor de mediu din halocamere*”, **PRESENT ENCIRONMENT & SUSTAINABLE DEVELOPMENT**, „Al. I. Cuza” University of Iași, 14-16 Oct. 2011, Poster 7 (<http://www.pesd.ro/Symposium%20Information.html>);
6. V. VASILACHE, M.A. CREȚU, **I. SANDU**, Tr. VASILACHE, „*Pesticides Use in Botosani County. Regional Informations and Perspectives*”, **NEW TRENDS IN ENVIRONMENTAL AND MATERIALS ENGINEERING**, Galați, mai 2010,
7. V. VASILACHE, **I. SANDU**, Tr. VASILACHE, „*Studies Regarding the Quality of Waters for Some Rivers from Suceava County*”, **NEW TRENDS IN ENVIRONMENTAL AND MATERIALS ENGINEERING**, Galați, mai 2010,
8. M. CANACHE, **I. SANDU**, T. LUPASCU, C. PASCU, „*Up to Date Methods and Technics Involved in Monitoring the Aerosols from Natural and Artificial Halochambers*”, **NEW TRENDS IN ENVIRONMENTAL AND MATERIALS ENGINEERING**, Galați, mai 2010,
9. L.G. GHERMAN, **I. SANDU**, V. VASILACHE, „*New Materials Assisting the Preservation*
10. *of Old Wood from Artworks*”, **NEW TRENDS IN ENVIRONMENTAL AND MATERIALS ENGINEERING**, Galați, mai 2010,
11. V. VASILACHE, D. APARASCHIVEI, **I. SANDU**, „*Physico-chemical analysis used for investigation of some artefacts discovered at Ibida (Slava Rusa, contry Tulcea)*” **International Scientific Session „EVOLUTION OF UNITY CONCEPT IN THE EUROPEAN HISTORY”**, Bucuresti, 2011, p. 14, poster 14.
12. C. FOTAKIS, **I. SANDU**, E. POPOVICI, N. VRINCEANU, D. COMAN, „*Study of a Nanostructured Porous Material Pattern Obtained Through UV Excimer Laser Irradiation Treatment*”, **The 2<sup>nd</sup> National Conference with International Participation, NANOSTRUCTURED MULTIFUNCTIONAL MATERIALS, NMM 2010**, Iași, 2010, pp.30-32;
13. **I. SANDU**, M. CANACHE, V. VASILACHE, „*The role of NaCl solions on human subjects*”, in **Proceeding of 5<sup>th</sup> International Symposium Present Environment & Sustainable Development**, 15-17 Oct.2010, „Al.I.Cuza” University of Iasi, Section Biosphere and human society, [www.pesd.ro](http://www.pesd.ro), p.11;
14. **I. SANDU**, O. MIRCEA, I. SĂRGHIE, A.V. SANDU, C. MARIAN, V. VASILACHE, „*Applications of non-invasive techniques in the analysis of corrosion crusts formed on archaeological metal objects*”, in **Proceeding of 5<sup>th</sup> International Conference ARTCAST 2010** (Casting from rigor of technique to art), Galați University Press (ISSN 2068-3510), Galați, 2010, p. 7-19;
15. **I. SANDU**, C. BEJINARIU, A.V. SANDU, V. VASILACHE, I.G. SANDU, M. BRĂNZILĂ, „*Obtaining and characterization of vitroceram by chemical dopped ZnO for art mosaic*”; in **Proceeding of 5<sup>th</sup> International Conference ARTCAST 2010** (Casting from rigor of technique to art), Galați University Press (ISSN 2068-3510), Galați, 2010, p. 138-151;
16. V. VASILACHE, S. GUTT, **I. SANDU**, G. GUTT, T. VASILACHE, „*Electrodeposition and characterization of Zn-Co alloy coating*”, in **Proceeding of 5<sup>th</sup> International Conference ARTCAST 2010** (Casting from rigor of technique to art), Galați University Press (ISSN 2068-3510), Galați, 2010, p. 370-375;
17. **I. SANDU**, G. I. OLTEANU, I. G. SANDU, V. VASILACHE, A.V. SANDU, C.A. CIOCAN, „*Datarea documentelor vechi pe suporturi papetare celulozice*”, **3rd International Scientific Session. Internal Affairs and Justice in the Process of the European Integration and Globalization**, Pro Universitaria București (ISSN 2066-995X), p. 1404-1411;
18. N. VRINCEANU, A. GRIGORIU, M. BĂZGAN, **I. SANDU**, „*Stabilization of cellulosic supports belonging to archival documents against ageing*”, **3rd International Scientific Session. Internal Affairs and Justice in the Process of the European Integration and Globalization**, Pro Universitaria București (ISSN 2066-995X), p. 1412-1418;
19. **I. SANDU**, G. I. OLTEANU, V. COTIUGA, A.V. SANDU, V. VASILACHE, C.A. CIOCAN, „*The determination of fakes of some ceramic artifacts I. Cucuteni Culture*”, **3rd International Scientific Session. Internal Affairs and Justice in the Process of the European Integration and Globalization**, Pro Universitaria București (ISSN 2066-995X), pp.
20. **I. SANDU**, G.I. OLTEANU, I.G. SANDU, V. VASILACHE, A.V. SANDU, „*Nondistructive methods for authentication of the gems and precious metals*”, **3rd International Scientific Session. Internal Affairs and Justice in the Process of the European Integration and Globalization**, Pro Universitaria București (ISSN 2066-995X), pp.

21. **I. SANDU**, V. COTIUGA, A. V. SANDU, A.C. CIOCAN, M. PRAISLER, "The determination of some archaeometric characteristics of ancient ceramics", **International Symposium on Applied Physics: Materials Science, Environment and Health ISAP 1**, Ed. University Press GUP (ISSN 1843-5807), Galați, 2009, p. 421-425;
22. C. NADEJDE, E. FOCA-NICI, D. CREANGA, A. CARLESCU, A.C. CIOCAN, V. BADESCU, O. CALTUN, V. VASILACHE, **I. SANDU**, "Magnetic nanoparticles coated in drug molecule – experimental study focused on rifampicin interactions with iron atoms", **1st International Symposium on Applied Physics – Materials Science, Environment and Health (ISAPI)**, Ed. University Press GUP (ISSN 1843-5807), Galați, 2009, p. 327-331;
23. **I. SANDU**, M. SAVIUC, I.G. SANDU, I.M. POPA, A.V. SANDU, *Thermoresistive New Pigments for stained glass and mosaics*, in *Proceeding of the IV<sup>th</sup> International Symposium Cucuteni 5000 Redivivus – Exact and Less Exact Sciences*, Ed. PIM (ISBN 978-606-520-664-9), Iași, 2009, p. 163-177;
24. **I.SANDU**, V.VASILACHE, C. LUCA, I.C.A. SANDU, *New data in the scientific conservation of old wood*, in *Proceeding of the IV<sup>th</sup> International Symposium Cucuteni 5000 Redivivus – Exact and Less Exact Sciences*, Ed. PIM (ISBN 978-606-520-664-9), Iași, 2009, p. 177-198;
25. A.V.SANDU, C.BEJINARIU, **I.SANDU**, I. IONITA, I.G. SANDU, *New procedures for metallic artefact patination*, in *Proceeding of the IV<sup>th</sup> International Symposium Cucuteni 5000 Redivivus – Exact and Less Exact Sciences*, Ed. PIM (ISBN 978-606-520-664-9), Iași, 2009, p. 198-207;
26. **I.SANDU**, M.BRINZILA, I.G.SANDU, *Past and present in stone art*, in *Proceeding of the IV<sup>th</sup> International Symposium Cucuteni 5000 Redivivus – Exact and Less Exact Sciences*, Ed. PIM (ISBN 978-606-520-664-9), Iași, 2009, p. 208-218;
27. C. BEJINARIU, A.V. SANDU, I. IONITA, **I. SANDU**, V. VASILACHE, I.G.SANDU, "New Procedures for Lubricant Phosphation", in **International Scientific Conference UGALMAT 2009** (Advanced Materials and Technologies), vol. II, Ed. University Press GUP (ISSN 1843-5807), Galați, 2009, p. 321-325;
28. V. VASILACHE, S. GUTT, G. GUTT, **I. SANDU**, Tr. VASILACHE, A.V. SANDU, "Studies Regarding Nickel Electrodeposition from Watts Bath with Addition of Polyvinylpyrrolidone and Sodium Saccharine", in **International Scientific Conference UGALMAT 2009** (Advanced Materials and Technologies), vol. II, Ed. University Press GUP (ISSN 1843-5807), Galați, 2009, p. 363-369;
29. O. MIRCEA, **I. SANDU**, I. SARGHIE, A.V. SANDU, "Atypical Surface Formations Found on the Corrosion Layer of Iron Artefacts", in **International Scientific Conference UGALMAT 2009** (Advanced Materials and Technologies), vol. II, Ed. University Press GUP (ISSN 1843-5807), Galați, 2009, p. 461-470;
30. A.V. SANDU, V. VASILACHE,, **I. SANDU**, M. SAVIUC, I.G.SANDU, I.M. POPA, "Obtaining and Characterisation of Thermoresistive Pigments", in **International Scientific Conference UGALMAT 2009** (Advanced Materials and Technologies), vol. II, Ed. University Press GUP (ISSN 1843-5807), Galați, 2009, p. 470-474;
31. O. MIRCEA, **I. SANDU**, I. SARGHIE, A.V. SANDU, "Degradation of the Archaeological Artifacts with Overlapped Metals", in **International Scientific Conference UGALMAT 2009** (Advanced Materials and Technologies), vol. II, Ed. University Press GUP (ISSN 1843-5807), Galați, 2009, p. 488-501;
32. **I. SANDU**, V. VASILACHE, N. VRINCEANU, V. COTIUGA, A.C. CIOCAN, "Atributele autentificarii artefactelor vechi si sisteme analitice de investigare stiintifica", in **International Conference Afacerile interne si justitia in procesul integrarii europene si al globalizarii, Sectiunea FORENSINC SCIENCE**, Ed. ProUniversitaria (ISSN 2066-995X), Bucuresti, 2009, p. 319-324;
33. **I. SANDU**, N. VRINCEANU, A.C. CIOCAN, V. COTIUGA, "Tendinte actuale privind conservarea stiintifica a documentelor vechi", in **International Conference Afacerile interne si justitia in procesul integrarii europene si al globalizarii, Sectiunea ARHIVISTICS**, Ed. ProUniversitaria (ISSN 2066-995X), Bucuresti, 2009, p. 633-639;
34. **I. SANDU**, N. VRINCEANU, V. VASILACHE, A.C. CIOCAN, V. COTIUGA, "Metode si tehnicii neinvasive utilizate in autentificarea artefactelor", in **International Conference Afacerile interne si justitia in procesul integrarii europene si al globalizarii, Sectiunea ENGINEERING SCIENCE**, Ed. ProUniversitaria (ISSN 2066-995X), Bucuresti, 2009, p. 777-784;
35. N. VRINCEANU, D. COMAN, I. NEAGU, A. GRIGORIU, **I. SANDU**, "Spectroscopic techniques for surface textiles testing", in **Proceedings of the 2<sup>nd</sup> INTERNATIONAL PROFICIENCY TESTING CONFERENCE – PiConf**, Ed. "Lucian Blaga" University Press (ISSN 2066-737X), Sibiu, 2009, p. 331-337;
36. **I. SANDU**, V. VASILACHE, I.C.A. SANDU, M. HAYASHI, A. CIOCAN, "A new method for determination of the normal range of variation of the hydrous equilibrium for wood", **7<sup>th</sup> International Conference Wood Science and Engineering in the Third Millennium – ICWSE 2009**", "Transilvania" University Press (ISSN 1843-2589), Brașov, 2009, p. 471 – 478;
37. M. HAYASHI, **I. SANDU**, A. CIOCAN, V. VASILACHE, I.C.A. SANDU, "The impact of some active compounds implied in the preservation, upon physical-structural wood's Characteristics", **7<sup>th</sup> International Conference Wood Science and Engineering in the Third Millennium – ICWSE 2009**", "Transilvania" University Press (ISSN 1843-2589), Brașov, 2009, p. 441 – 451;
38. V. VASILACHE, I.C.A. SANDU, A. CIOCAN, **I. SANDU**, M. HAYASHI, "Retention of permethrin-red petroleum system during the wood process of preservation", **7<sup>th</sup> International Conference Wood Science and Engineering in the Third Millennium – ICWSE 2009**", "Transilvania" University Press (ISSN 1843-2589), Brașov, 2009, p. 466 – 470;
39. I. G. SANDU, M. HAYASHI, **I. SANDU**, V. VASILACHE, N. VRINCEANU, A. CIOCAN, "The impact of old wood at the contact with metallic structural components from artifacts", **7<sup>th</sup> International Conference Wood Science and Engineering in the Third Millennium – ICWSE 2009**", "Transilvania" University Press (ISSN 1843-2589), Brașov, 2009, p. 479 – 485;
40. A. CIOCAN, **I. SANDU**, M. HAYASHI, A.V. SANDU, V. VASILACHE, "The implication of two complementary techniques the determination of the degree of penetration of some active compounds during wood treatment", **7<sup>th</sup> International Conference Wood Science and Engineering in the Third Millennium – ICWSE 2009**", "Transilvania" University Press (ISSN 1843-2589), Brașov, 2009, p. 452 – 465;
41. E.L. FOCANICI-CIURLICĂ, C. NĂDEJDE, A.C. CIOCAN, A. CĂRLESCU, D.E. CREANGĂ, O. CĂLȚUN, I. SANDU, A.V. SANDU, *Magnetic submicron particles coated in drug molecule – experimental study focused on rifampicin interactions with iron atoms I.*, **International Symposium on Applied Physics – Materials science, Environment and Health**, noiembrie 2009, Galați, România – poster;

42. **I. SANDU**, F.M. FLUTUREL, A.V. SANDU, „*Bibliographic Research in Patent Databases*”, EUROINVENT – Romanian Technical Creativity In European Context, Ed. Tehnopress, (ISBN 978-973-702-641-5) , Iași, 2009, p. 125 – 136;
43. **I. SANDU**, „Generative Factors in Creative Process”, EUROINVENT - Romanian Technical Creativity In European Context, Ed. Tehnopress, (ISBN 978-973-702-641-5) , Iași, 2009, p. 167– 172;
44. C.C. IOAN, M. CHIRAZI, **I. SANDU**, „Creative Activities and Sports Systems Management”, EUROINVENT - Romanian Technical Creativity In European Context, Ed. Tehnopress, (ISBN 978-973-702-641-5) , Iași, 2009, p. 173-188;
45. V., VASILACHE, S. GUTT, G. GUTT, Tr.VASILACHE, **I. SANDU**, I.G. SANDU, „*Determination of the Dimension of Crystalline Grains of Thin Layers of Zinc-Nickel Alloy of Electrochemically Deposited*”, in International Conference on Material Science and Engineering, BRAMAT'2009, 26-28.Feb. 2009, Brasov, p.30;
46. V. VASILACHE, **I. SANDU**, C. LUCA, M. HAYASHI, A.V. SANDU, „*Determination of the conservation state of old wood artifacts*”, in Proceedings of the 2<sup>nd</sup> International Conference ADVANCES MATERIALS AND SYSTEMS ICAMS 2008, Ed. CERTEX (ISBN 978 – 973 – 1716 – 39 – 8), București, 2008, p 501 – 507;
47. **I. SANDU**, M. QUARANTA, C. BEJINARIU, I.G. SANDU, C. MUNTEANU, A.V. SANDU, „*Determination of the conservation state of old copper alloys*”, in Proceedings of the 2<sup>nd</sup> International Conference ADVANCES MATERIALS AND SYSTEMS ICAMS 2008, Ed. CERTEX (ISBN 978 – 973 – 1716 – 39 – 8), București, 2008, p 478 – 483;
48. **I. SANDU**, T. LUPASCU, I.C.A. SANDU, C. LUCA, I.G. SANDU, V. VASILACHE, M. HAYASHI, M. CIOBANU, „*New method for the evaluation of the characteristics on the old wood used in preservation process and authentication*”, in Proceedings of the 2<sup>nd</sup> International Conference ADVANCES MATERIALS AND SYSTEMS ICAMS 2008, Ed. CERTEX (ISBN 978 – 973 – 1716 – 39 – 8), București, 2008, p 490 – 494;
49. I.C.A. SANDU, V. VASILACHE, **I. SANDU**, N. VRINCEANU, I.G. SANDU, „*New aspects on culturale heritage nomenclature*”, in Proceedings of the 2<sup>nd</sup> International Conference ADVANCES MATERIALS AND SYSTEMS ICAMS 2008, Ed. CERTEX (ISBN 978 – 973 – 1716 – 39 – 8), București, 2008, p.473 - 477;
50. **I. SANDU**, T. LUPASCU, I.C.A. SANDU, C. LUCA, I.G. SANDU, V. VASILACHE, M. HAYASHI, „*Ecologic organic solution for the treatment against insects and fungal attack of the old wood-made artifacts*”, in Proceedings of the International Conference on ECOLOGICAL MATERIALS AND TECHNOLOGIES ECOMAT 2008, Ed. Printech (ISBN 978-606-521-079-0), București, 2008, p.79 - 81;
51. **I. SANDU**, Tr. ZAHARESCU, I. G. SANDU, I.C.A. SANDU, A.V. SANDU, „*Process for purifying used sewage and industrial waters*”, in Proceedings of the International Conference on ECOLOGICAL MATERIALS AND TECHNOLOGIES ECOMAT 2008, Ed. Printech (ISBN 978-606-521-079-0), București, 2008, p. 85 - 87;
52. **I. SANDU**, T. LUPASCU, I.C.A. SANDU, C. LUCA, I.G. SANDU, V. VASILACHE, M. HAYASHI, M. CIOBANU, „*New method for the evaluation of the cumulative preservation treatment impact on the old wood with ecological organic solutions*”, in Proceedings of the International Conference on ECOLOGICAL MATERIALS AND TECHNOLOGIES ECOMAT 2008, Ed. Printech (ISBN 978-606-521-079-0), București, 2008, p. 81 - 85;
53. **I. SANDU**, T. BOUNEGRU, Tr. ZAHARESCU, I.G. SANDU, A.V. SANDU, „*Process for neutralization of ferrocyanide slurry formed at the wine deferrization*”, in Proceedings of the International Conference on ECOLOGICAL MATERIALS AND TECHNOLOGIES ECOMAT 2008, Ed. Printech (ISBN 978-606-521-079-0), București, 2008, p. 77 - 79;
54. V. TURA, F. TOFOLEANU, I. MANGALAGIU, T. BALAU-MINDRU, F. BRINZA, N. SULITANU, **I. SANDU**, D. RAILEANU, C. IONESCU, „*Electrospinning of Gelatin – Chitin Composite Nanofibers*”, in Proceedings of the 8<sup>th</sup> International Conference on PHYSICS OF ADVANCED MATERIALS, ICPAM-8 Iasi, 4 – 7 junie 2008 (O-VI.3, p. 22);
55. F. TOFOLEANU, T. BALAU-MINDRU, F. BRINZA, N. SULITANU, **I. SANDU**, D. RAILEANU, V. FLORISTEAN, B. HAGIU, C. IONESCU, V. TURA, „*Electrospun Gelatin Nanofibers Functionalized with Silver Nanoparticles*”, in Proceedings of the 8<sup>th</sup> International Conference on PHYSICS OF ADVANCED MATERIALS, ICPAM – 8, Iasi, 4 – 7 junie 2008 (O-VI.4, p. 23);
56. Gh. GUTT, V. VASILACHE, **I.SANDU**, Tr. VASILACHE, A.V. SANDU, „*In Situ Monitoring of Zinc-Nickel Alloys Electroplating Processes with EQCM*”, in Proceedings of the 8<sup>th</sup> International Conference on PHYSICS OF ADVANCED MATERIALS, ICPAM – 8, Iasi, 4 – 7 junie 2008 O-VI.5, p. 23);
57. F. IACOMI, M. PURICA, E. BUDIANU, **I. SANDU**, „*Structure and Electro-optical Properties of SbSn/CdS Thin Films(II)*”, in Proceedings of the 8<sup>th</sup> International Conference on PHYSICS OF ADVANCED MATERIALS, ICPAM – 8, Iasi, 4 – 7 junie 2008 (P-V.5, p. 42);
58. **I. SANDU**, F.M. FLUTUREL, I.G. SANDU, C. NITUCA, A.V. SANDU, „*Ethical aspects concerning the valorization of the intellectual property*”, in Proceedings of the International Conference INVENTICS - PERFORMANCE AND TECHNICAL CREATIVITY - INVENTICA 2008 (ISBN 978-073-730-491-9), Ed. Performantica, Iași, 2008, p. 453 – 463;
59. **I. SANDU**, V. VASILACHE, M. HAYASHI, N. VRÂNCEANU, A. CIOCAN, A.V. SANDU, „*The conservability of old wood at the contact with metallic structural components from artifacts*”, in Proceedings of the 4<sup>th</sup> International Conference CASTING, FROM RIGOR OF TECHNIQUE TO ART – ARTCAST 2008 (ISBN 978-973-7845-94-8), Ed EUROPLUS, Galați, 2008, p. 26-32;
60. **I. SANDU**, M. QUARANTA, I.G. SANDU, C. BEJINARIU, A.V. SANDU, „*The role of primary patina in the evolution of degradation processes of old bronze*”, in Proceedings of the 4<sup>th</sup> International Conference CASTING, FROM RIGOR OF TECHNIQUE TO ART – ARTCAST 2008 (ISBN 978-973-7845-94-8), Ed EUROPLUS, Galați, 2008, p. 40-48;
61. **I. SANDU**, L. ZAHARIA, I.G. SANDU, R. COMANECI, R. CHELARU, A.V. SANDU, „*The compatibilisation of non-ferrous alloys components based on chemical and function character*”, in Proceedings of the 4<sup>th</sup> International Conference CASTING, FROM RIGOR OF TECHNIQUE TO ART – ARTCAST 2008 (ISBN 978-973-7845-94-8), Ed EUROPLUS, Galați, 2008, p. 255-261;
62. N. VRÂNCEANU, V. BLASCU, **I. SANDU**, A. GRIGORIU, „*Studies of some laser cleaning treatments of copper and silver threads in museum textiles*”, in Proceedings of the 4<sup>th</sup> International Conference CASTING, FROM RIGOR OF TECHNIQUE TO ART – ARTCAST 2008 (ISBN 978-973-7845-94-8), Ed EUROPLUS, Galați, 2008, p. 141-146;

63. Gh. GUTT, Violeta VASILACHE, I. SANDU, T. VASILACHE, A.V. SANDU , „Contributions on studies about Zn-Ni Alloys electrodeposition”, in Proceedings of the 4<sup>th</sup> International Conference **CASTING, FROM RIGOR OF TECHNIQUE TO ART – ARTCAST 2008** (ISBN 978-973-7845-94-8), Ed EUROPLUS, Galați, 2008, p. 280-284;
64. Gh. GUTT, Violeta VASILACHE, I. SANDU, T. VASILACHE, T. SEVERIN, A.V. SANDU – „Studies about the influence of brightness agents against nickel electrodeposition”, in Proceedings of the 4<sup>th</sup> International Conference **CASTING, FROM RIGOR OF TECHNIQUE TO ART – ARTCAST 2008** (ISBN 978-973-7845-94-8), Ed EUROPLUS, Galați, 2008, p. 299-303;
65. I. SANDU, M. QUARANTA, C. BEJINARIU, I.G. SANDU, D. LUCA., A.V. SANDU, „Study on the specific effects of corrosion processes on ancient bronze artefacts”, in Proceedings of the 2<sup>th</sup> International Conference **ADVANCED TECHNOLOGIES AND MATERIALS - UGALMAT 2007**, vol II, (ISSN 1843-5807), „Dunărea de Jos” University Press, Galați, 2007, p. 335-344;
66. I. SANDU, M. HAYASHI, I.C.A. SANDU, V. VASILACHE, C. STANCIU, A.V. SANDU, „Implication of the SEM-EDX technique in the study of old wood”, in Proceedings of the 2<sup>th</sup> International Conference **ADVANCED TECHNOLOGIES AND MATERIALS - UGALMAT 2007**, vol II, (ISSN 1843-5807), „Dunărea de Jos” University Press, Galați, p. 345-349;
67. I. SANDU, M. HAYASHI, M. QUARANTA, C. BEJINARIU, C. STANCIU, I.C.A. SANDU, V. VASILACHE, „The study of metal-old wood interactions under the influence of pedological factors”, in Proceedings of the 2<sup>th</sup> International Conference **ADVANCED TECHNOLOGIES AND MATERIALS - UGALMAT 2007**, vol II, (ISSN 1843-5807), „Dunărea de Jos” University Press, Galați, 2007, p. 350-355;
68. T. BOUNEGRU, I. SANDU, „Process for sulphurous anhydride removal from the winy distillate”, in Proceedings of the International Conference **AGRICULTURAL AND FOOD SCIENCES, PROCESSES AND TECHNOLOGIES**, Ed. Lucian Blaga University of Sibiu, 2007, p. 30-31;
69. I. SANDU, T. BOUNEGRU, I.G. SANDU, A.V. SANDU, „Process for neutralization of ferrocyanide slurry formed at the winy deferrization”, in Proceedings of the International Conference **AGRICULTURAL AND FOOD SCIENCES, PROCESSES AND TECHNOLOGIES**, Ed. Lucian Blaga University of Sibiu, 2007, p. 47-48;
70. I. SANDU, C. MARUTOIU, I.C.A. SANDU, „Modern chemistry application in the integrated conservation of natural and cultural heritage”, in Proceedings of the International Conference **AGRICULTURAL AND FOOD SCIENCES, PROCESSES AND TECHNOLOGIES**, Ed. Lucian Blaga University of Sibiu, 2007, p. 75-76;
71. N. LUȚĂ, S.VELEA, I. SANDU, O. PETREUȘ, M. ARSENE, Gh. RĂCEANU, M. POPESCU, C. NEAMȚU, V. FARAON, „Compoziții pesticide polivalente folosite pentru operelor de patrimoniu național, realizat din material lemnos, împotriva agenților biologici xilofagi”, in Proceedings of the International Conference **PRIORITIES OF THE CHEMISTRY FOR DURABLE DEVELOPMENT– PRIOCHEM**, Ed. ICCHIM, București , 2006, pag. 10;
72. I. SANDU, I.G. SANDU, „High Education in Inventics. I. National Development Directions and Perspectives”, in Proceedings of the XVIII<sup>th</sup> International Conference „**ADVANCED INOVATIVE RESEARCHS AND TECHNOLOGIES**”, Ed. Performantica (ISBN 978-973-730-231-1), Iași, 2006, p. 35-46;
73. I. SANDU, I.G. SANDU, „High Education in Inventics. II. Practical Ways of Approach”, in Proceedings of the XVIII<sup>th</sup> International Conference „**ADVANCED INOVATIVE RESEARCHS AND TECHNOLOGIES**”, Ed. Performantica (ISBN 978-973-730-231-1), Iași, 2006, p. 47-59;
74. I. SANDU, N. LUȚĂ, I.C.A. SANDU, O. PETREUȘ, I.G. SANDU, V. VASILACHE, A.V. SANDU, „Implicarea lemnului la punerea în operă a bunurilor de patrimoniu cultural. Tipologii și cazuistici”, in Proceedings of the XVIII<sup>th</sup> International Conference „**ADVANCED INOVATIVE RESEARCHS AND TECHNOLOGIES**”, Ed. Performantica (ISBN 978-973-730-231-1), Iași, 2006, p. 207-220;
75. I. SANDU, N. LUȚĂ, I.C.A. SANDU, O. PETREUȘ, I.G. SANDU, C. HAMCIUC, A.V. SANDU, V. VASILACHE, „Procedee moderne de conservare a lemnului vechi, pus în operă”, in Proceedings of the XVIII<sup>th</sup> International Conference „**ADVANCED INOVATIVE RESEARCHS AND TECHNOLOGIES**”, Ed. Performantica (ISBN 978-973-730-231-1), Iași, 2006, p. 221-226;
76. I. SANDU, I.C.A. SANDU, „Implicațiile chimiei în investigarea științifică a bunurilor culturale și istorice”, in Proceedings of the XVIII<sup>th</sup> International Conference „**ADVANCED INOVATIVE RESEARCHS AND TECHNOLOGIES**”, Ed. Performantica (ISBN 978-973-730-231-1), Iași, 2006, p. 227-238;
77. I. SANDU, I.G.SANDU, „Noi sisteme scientometrice pentru evaluarea rezultatelor tehnico-științifice in Proceedings of the XVIII<sup>th</sup> International Conference „**ADVANCED INOVATIVE RESEARCHS AND TECHNOLOGIES**”, Ed. Performantica (ISBN 978-973-730-231-1), Iași, 2006, p. 249-256;
78. I. SANDU, F. DIACONESCU, I.G. SANDU, A. ALEXANDRU., A.V. SANDU., „The Authentification of old bronze coins. II. The structure of the archaeological patina”, in Proceedings of the 3<sup>rd</sup> International Conference **ARTCAST 2006, METAL CASTING PROCESS FROM THE ENGINEER'S RIGOUR TO THE ARTIST DREAM**, Ed. Academica, (ISBN 973-8316-43-X), Universitatea „Dunărea de Jos”, Galați, 2006, pp. 11-22;
79. R. MAZZEO, I. SANDU, I. CARCEA, I.G. SANDU, „The pedological stratification effect of corosion and contamination products on ancient bronze artefacts”, in Proceedings of the 3<sup>rd</sup> International Conference **ARTCAST 2006, METAL CASTING PROCESS FROM THE ENGINEER'S RIGOUR TO THE ARTIST DREAM**, Ed. Academica, (ISBN 973-8316-43-X), Universitatea „Dunărea de Jos”, Galați, 2006, pp. 40-52;
80. M. MATTEINI, I.C.A. SANDU, I. SANDU, „The identification of metallic pigments from old paintings”, in Proceedings of the 3<sup>rd</sup> International Conference **ARTCAST 2006, METAL CASTING PROCESS FROM THE ENGINEER'S RIGOUR TO THE ARTIST DREAM**, Ed. Academica, (ISBN 973-8316-43-X), Universitatea „Dunărea de Jos”, Galați, 2006, pp. 52-56;
81. O. CIOBANU, I. SANDU, GABRIELA CIOBANU, C. PASCU, I.G. SANDU, A.V. SANDU, „SALT AIR MEASUREMENT METHOD WITH APPLICATION IN BIOENGINEERING” **BIOMED 2004**, Ed. PRINTECH, (ISBN 973-718-083-6), BUCUREȘTI, 2004, p. 117-118;
82. G. CIOBANU, O. CIOBANU, I. SANDU, C. PASCU, I.G. SANDU, „Un nouveau type de generateur d'aerosol salin”, in Proceedings of the III<sup>rd</sup> Franco-Romanian Coloquim of Applied Chemistry COFrRoCA 2004, Ed. Alma Mater (ISBN 973-8392-36-5), Bacău și Ed. Tehnica-Info, (ISBN 9975-63-183-5), Kishinew, 2004, p. 601-605 (C.A. 397643d/142/2005);

83. **I. SANDU**, A. DIMA, F. DIACONESCU, I.G. SANDU, „*Moderne neinvasive methods involved in metallic artefacts investigation*”, in Proceedings of the 2<sup>nd</sup> International Conference ARTCAST 2004, METAL CASTING PROCESS FROM THE ENGINEER'S RIGOUR TO THE ARTIST DREAM, Ed. Academica, (ISBN 973-8316-43-X), Universitatea „Dunărea de Jos”, Galați, 2004, pp. 63-68;
84. A. DIMA, **I. SANDU**, F. DIACONESCU, I.G. SANDU, „*Actual tends in the conservation of the metallic artefacts from national cultural heritage*”, in Proceedings of the 2<sup>nd</sup> International Conference ARTCAST 2004, METAL CASTING PROCESS FROM THE ENGINEER'S RIGOUR TO THE ARTIST DREAM, Ed. Academica, (ISBN 973-8316-43-X), Universitatea „Dunărea de Jos”, Galați, 2004, pp. 58-63
85. I.G. SANDU, A. DIMA, **I. SANDU**, F. DIACONESCU, A.V. SANDU, „*Procedure for obtaining artistically patina for iron pieces*”, in Proceedings of the 2<sup>nd</sup> International Conference ARTCAST 2004, METAL CASTING PROCESS FROM THE ENGINEER'S RIGOUR TO THE ARTIST DREAM, Ed. Academica, (ISBN 973-8316-43-X), Universitatea „Dunărea de Jos”, Galați, 2004, pp. 53-58;
86. I.G. SANDU, A. DIMA, **I. SANDU**, F. DIACONESCU, I.C.A. SANDU, „*Moderne methods and materials used in metallic artefacts conservation*”, in Proceedings of the 2<sup>nd</sup> International Conference ARTCAST 2004 METAL CASTING PROCESS FROM THE ENGINEER'S RIGOUR TO THE ARTIST DREAM, Ed. Academica, (ISBN 973-8316-43-X), Universitatea „Dunărea de Jos”, Galați, 2004, pp. 47-53;
87. **I. SANDU**, I.G. SANDU, I.C.A. SANDU, „*Interdisciplinary chemical effects*”, in ECOTEHNOLOGII 2003, Ed. Performantica (ISBN 973-8075-90-4 ), Iași, 2003, p. 105-110;
88. **I. SANDU**, I.G. SANDU, „*Chemical effects processing involved in inventics*”, in ECOTEHNOLOGII 2003, Ed. Performantica (ISBN 973-8075-90-4), Iași, 2003, p. 110-120;
89. **I. SANDU**, N. SULITANU, I.C.A. SANDU, I.G. SANDU, „*Iconographic image processing in 2D and 3D systems*”, in Proceedings of the Second European Conference on Intelligent Systems and Technologies ECIT 2002 and ROSYCS 2002, Ed. Performantica, Iasi, (ISBN 973-8075-20-3), tom II, (2002), p.601-618;
90. P. ATYIM, L. BOLOCAN-VIAȘU, **I. SANDU**, „*The dependence between the density (specific volum) end the ashes in the Chejd-Sărmășag coal*”, in BRAMAT, vol. IV, Ceramic materials, Ed. Universității Transilvania (ISBN 973-8124-15-8/973-8124-19-0), 2001, p.68-71;
91. **I. SANDU**, I.C.A. SANDU, P. ATYIM, „*Modern methods and techniques used in the study of the compatibility of the physic-chemical, mechanical end biological system*”, in BRAMAT, vol.IV, Materials analysis and environment protection”, Ed. Universității Transilvania (ISBN 973-8124-15-8/973-8124-19-0), 2001, p. 72-79;
92. I.G. SANDU, A. DIMA, **I. SANDU**, „*The synthesis and characterization of new heterojunctional vitroceramic materials for varistors*”, in BRAMAT, vol. IV, Ceramic materials, Ed. Universității Transilvania (ISBN 973-8124-15-8/973-8124-19-0), 2001, p. 25-30.

#### H. Papers Published in National Journals, non ISI (75):

1. B.A. HAGIU, L.B. UNGUREANU, **I. SANDU**, O.C. MUNGIU, *Research concerning the regenerative effect of a silver nanodispersion in water-oil emulsion on skeletal muscle*, REVISTA ALGEZIO, 1, 2012, [http://www.algezio.ro/doc/Hagiu\\_BA\\_Ungureanu\\_LB\\_et\\_al.pdf](http://www.algezio.ro/doc/Hagiu_BA_Ungureanu_LB_et_al.pdf);
2. **I. SANDU**, M. CANACHE, V. VASILACHE, I.G. SANDU „*The Effects of Salt Solions on the Health of Human Subjects*”, PRESENT ENVIRONMENT AND SUSTAINABLE DEVELOPMENT (ISSN 1843-5971), „Al.I.Cuza” University of Iasi, 5, 2, (2011), p. 67-89;
3. V. VASILACHE, M.A. CRETU, **I. SANDU**, Tr. VASILACHE, „*Pesticides Use in Botosani County. Regional Informations and Perspectives*”, in ANNALS OF „DUNAREA DE JOS” UNIVERSITY OF GALATI (ISSN 1453-083X), Fasc. IX METALURGY AND MATERIALS SCIENCE, 29, 1, 2011, p. 175-179;
4. V. VASILACHE, **I. SANDU**, Tr. VASILACHE, „*Studies Regarding the Quality of Waters for Some Rivers from Suceava County*”, în ANNALS OF „DUNAREA DE JOS” UNIVERSITY OF GALATI (ISSN 1453-083X), Fasc. IX METALURGY AND MATERIALS SCIENCE, 29, 1, 2011, p. 169-174;
5. M. CANACHE, **I. SANDU**, T. LUPAȘCU, C. PASCU, „*Up to Date Methods and Technics Involved in Monitoring the Aerosols from Natural and Artificial Halochambers*”, „ in ANNALS OF „DUNAREA DE JOS” UNIVERSITY OF GALATI (ISSN 1453-083X), Fasc. IX METALURGY AND MATERIALS SCIENCE, 29, 2, 2011, p. 169-174;
6. L.G. GHERMAN, **I. SANDU**, V.VASILACHE, „*New Materials Assisting the Preservation of Old Wood from Artworks*”, „ in ANNALS OF „DUNAREA DE JOS” UNIVERSITY OF GALATI (ISSN 1453-083X), Fasc. IX METALURGY AND MATERIALS SCIENCE, 29, 2, 2011, p. 169-174;
7. **I. SANDU**, G.I. OLTEANU, I.G. SANDU, V. VASILACHE, A.V. SANDU, C.A. CIOCAN, *Dating of old documents written on cellulosic paper*, REVIEW OF CRIMINOLOGY, CRIMINALISTICS AND PENOLOGY, 3, 2010, pp. 201-207;
8. **I. SANDU**, C. BEJINARIU, A.V. SANDU, V. VASILACHE, I.G. SANDU, M. BRÂNZILĂ, „*Obtaining and characterization of vitroceram bz chemical doped ZnO for art mozaic*”, ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI, FASCICLE IX, METALLURGY AND MATERIALS SCIENCE, 26, 4, 2010, pp. 5-14;
9. V. VASILACHE, S. GUTT, **I. SANDU**, Gh. GUTT, Tr. VASILACHE, „*Electrodeposition and characterisation of Zinc-Cobalt alloz coating*”, ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI, FASCICLE IX, METALLURGY AND MATERIALS SCIENCE, 26, 1, 2010, pp. 37-40;
10. B.A. HAGIU, A.N. BOCA, V. TURA, N. HAGIU, L.B. UNGUREANU, A. NEAGU, **I. SANDU**, A.V. SANDU, I.I. MANGALAGIU, B. TAMBA, O.C. MUNGIU, „*The Cicatriation and Regeneration Action of a Powder Containing Silver Nanoparticles*”, DERMATOVENEROLOGIE, (Bucharest), 55, 2010, p. 122;
11. E. FOCANICI-CIURLICA, C. NADEJDE, A.C. CIOCAN, A. CARLESCU, D. CREANGA, O. CALTUN, **I. SANDU**, A.V. SANDU, *Magnetic submicron particles coated in drug molecule – experimental study focused on rifampicin interactions with iron atoms*, ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI, MATHEMATICS, PHYSICS, THEORETICAL MECHANICS, FASCICLE II, YEAR II (XXXIII), 1, 2010, pp. 19-27;
12. N. VRINCEANU, D. COMAN, I. NEAGU, A. GRIGORIU, **I. SANDU**, *Spectroscopic techniques for surface textiles testing*, ACTA UNIVERSITATIS CIBIENSIS (ISSN 1583-7149), Technical Series, vol. LIX, 1, (2009), p. 156 - 161;

13. **I. SANDU**, V. VASILACHE, N. VRÎNCEANU, *Environmental technologies in the field of Scientific conservation of cultural heritage. New Perspectives and directions of research*, **PRESENT ENVIRONMENT AND SUSTAINABLE DEVELOPMENT** (ISSN 1843-5971), "Al.I.Cuza" University of Iasi, 3, (2009), p. 97-105;
14. N. VRÎNCEANU, D. COMAN, **I. SANDU**, A. GRIGORIU, V. VASILACHE, „*UV Laser Applicability in Study of Accelerated Ageing of Cellulosic Supports*”, **BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI**, Section Chemistry and Chemical Engineering, (ISSN 0254-7104), Tom LV (LIX), Fasc. 4, NOV (2009), p. 149-155;
15. **I. SANDU**, I.G. SANDU, *The Harmonisation of Inventions Law on the Intellectual and Industrial Property*, **BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI**, Section Socio-Humane Science, (ISSN 1011-2855), Tom LV (LIX), Fasc. 3-4, NOV (2009), p. 163-171;
16. **I. SANDU**, I.G. SANDU, A.V. SANDU, „*Bibliographic Research in Patent Databases*”, in **REVISTA CERCETĂRII ȘTIINȚIFICE** (ISSN 20066-6713), vol. I, nr. 1, 2009, p. 36-47;
17. I.G. SANDU, M. HAYASHI, **I. SANDU**, V. VASILACHE, N. VRÎNCEANU, A.C. CIOCAN, „*The impact of old wood at the contact with metallic structural components from artifacts II.*”, **PROLIGNO** (ISSN: 1841-4737), 5, 2, iunie 2009, p. 59-67;
18. C. BEJINARIU, **I. SANDU**, A. PREDESCU, I.G. SANDU, C. BACIU, A.V. SANDU, „*New mechanisms for phosphatation of iron objects*”, **BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI**, Section Material Science and Engineering, (ISSN 1453-1690), Tom LV (LIX), Fasc. 1, (2009), p. 73 - 77;
19. M. HAYASHI, **I. SANDU**, A.C. CIOCAN, V. VASILACHE, I.C.A. SANDU, „*The Impact of Some Active Compounds Implied in the Preservation of the Old Wood*”, in **ACTA UNIVERSITATIS CIBIENSIS** (ISSN 1583-5030), Seria F, **CHEMIA**, vol. 11, 2, (2008), p. 27 - 39;
20. A.C. CIOCAN, **I. SANDU**, M. HAYASHI, A.V. SANDU, V. VASILACHE, „*Analytical Complementary Techniques in the Determination of the Degree of Penetration of Some Active Compound During Old Wood Preservation*”, in **ACTA UNIVERSITATIS CIBIENSIS** (ISSN 1583-5030), Seria F, **CHEMIA**, vol. 11, 2, (2008), p. 47 – 63;
21. **I. SANDU**, C. MARUTOIU, I. G. SANDU, O. MIRCEA, M. QUARANTA, A. V. SANDU, „*Pedological effects on archaeological artifacts used in authentication*”, in **ACTA UNIVERSITATIS CIBIENSIS** (ISSN 1583-5030), Seria F, **CHEMIA**, vol. 11, 1, (2008), p. 57 - 69;
22. V.VASILACHE, S. GUTT, I.G. SANDU, T. VASILACHE, Gh.GUTT, **I. SANDU**, C. BEJINARIU, „*Study on zinc-nickel thin layer electrochemically obtained*” in **ACTA UNIVERSITATIS CIBIENSIS** (ISSN 1583-5030), Seria F, **CHEMIA**, vol. 11, 1, (2008), p. 51 - 57;
23. **I. SANDU**, M. HAYASHI, M. QUARANTA, C. BEJENARIU, C. STANCIU, I.C.A. SANDU, V. VASILACHE, „*The study of metal-old wood interactions under the influence of pedological factors*” in **THE ANALLS OF „DUNAREA DE JOS” UNIVERSITY OF GALATI**, Fascicle IX. **METALLURGY AND MATERIALS SCIENCE**, (ISSN 1453-083X), 25/30, Nov (2), 2008, p. 119-126;
24. **I. SANDU**, V. VASILACHE, M. HAYASHI, N. VRÎNCEANU, A. CIOCAN, A.V. SANDU, „*The conservability of old wood at the contact with metallic structural components from artifacts*”, in **THE ANALLS OF „DUNAREA DE JOS” UNIVERSITY OF GALATI**, Fascicle IX. **METALLURGY AND MATERIALS SCIENCE**, (ISSN 1453-083X), 25/30, May (1), 2008, p. 21-28;
25. **I. SANDU**, M. QUARANTA, C. BEJINARIU, I.G. SANDU, D. LUCA, A.V. SANDU, „*Study on the specific effects of corrosion processes on ancient bronze artefacts*”, **THE ANNALS OF „DUNĂREA DE JOS” UNIVERSITY OF GALAȚI** (ISSN 1453-083X), Fasc. IX **METALURGY AND MATERIALS SCIENCE**, 1, 2007, p. 64-73;
26. **I. SANDU**, C. MARUTOIU, I.G. SANDU, N. SULITANU, A.V. SANDU, G. DROCHIOIU, „*Study of the re-patination processes on restored areas of ancient bronze coins*”, in **ACTA UNIVERSITATIS CIBIENSIS** (ISSN 1583-5030), Seria F, **CHEMIA**, vol. 10, 1, (2007), p. 11 - 20;
27. R. MAZZEO, **I. SANDU**, I.C.A. SANDU, „*European PhD in Science for Conservation, the First Inter-University School*”, in **ANALELE ȘTIINȚIFICE ALE UNIVERSITĂȚII „AL. I. CUZA” Iași**, Seria Teologie (ISSN 1221-5333), nr.11, (2006) p. 533-541
28. **I. SANDU**, F. DIACONESCU, I.G. SANDU, A. ALEXANDRU, A.V. SANDU, „*The authentication of old bronze coins and structure of archaeological patina*”, in **ANNALS OF „DUNAREA DE JOS” UNIVERSITY OF GALATI** (ISSN 1453-083X), Fasc. IX **METALURGY AND MATERIALS SCIENCE**, 1, (2006), p. 71-82;
29. O. CIOBANU, G. CIOBANU, **I. SANDU**, „*Anlyse biochimique de l'air respire*”, in **SCIENTIFIC STUDY & RESEARCH**, (ISSN 1584-540X), vol. VII, 4, (2006), p. 907 – 915;
30. **I. SANDU**, C. MĂRUȚOIU, I.G. SANDU, A. ALEXANDRU, A.V. SANDU, „*Authentication of Old Bronze Coins. I. Study on Archaeological Patina*”, in **ACTA UNIVERSITATIS CIBIENSIS** (ISSN 1583-5030), Seria F, **CHEMIA**, vol. 9, 1, (2006), p. 39 – 53;
31. **I. SANDU**, A. MINEA, „*EPISCON (European Phd in Science for Conservation) an Inter-University School Model*”, in **BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI**, (ISSN 1224-5860), Tom LII (LVI), Fasc. 5, (2006), p. 557-563;
32. V. VASILACHE, C. LUCA, **I. SANDU**, I.C.A. SANDU, „*Studies Regarding the Sorption – Desorption Processes of Permetrine Solutions in Various Wood Essences, Used as a Support for Cultural Patrimony Goods*”, in **BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI**, Section Chemistry and Chemical Engineering, (ISSN 0254-7104), Tom XLX (LIV), Fasc.1-2, (2005), p. 121-126;
33. **I. SANDU**, D.G. GĂLUȘCĂ, I. CARCEA, M. ȘTEFAN, A.V. SANDU, „*Authentication of ancient bronze coins I. Aspects concerning the composition of the patina*”, in **BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI**, Section Materials Science and Engineering, (ISSN 1453-1690), Tom XLXI (LV), Fasc. 2, (2005), p. 157 - 166;
34. I.G. SANDU, I. C. A. SANDU, A. DIMA, **I. SANDU**, I. NEAȚȘU, „*Authentication of ancient bronze coins II. Microchemical, IR and XRD analyses*”, in **BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI**, Section Materials Science and Engineering, (ISSN 1453-1690), Tom XLXI (LV), Fasc. 2, (2005), p.167 - 176;
35. I.G. SANDU, Ș. STOLERIU, **I. SANDU**, A. DIMA, I.C.A. SANDU, I. NEAȚȘU, „*Authentication of ancient bronze coins III. Colorimetric and thermogravimetric analyses*”, in **BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI**, Section Materials Science and Engineering, (ISSN 1453-1690), Tom XLXI (LV), Fasc. 2, (2005), p.177- 188;
36. I.G. SANDU, A. DIMA, **I. SANDU**, F. DIACONESCU, A.V. SANDU, „*The conservation levels of metallic artefacts I. Ancient coins and other metallic numismatic pieces*”, in **BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI**, Section Materials Science and Engineering, (ISSN 1453-1690), Tom XLXI (LV), Fasc. 3-4, (2005), p.189 - 196;
37. I.G. SANDU, A. DIMA, **I. SANDU**, N. SULIȚANU, S. STOLERIU, F. DIACONESCU, „*The study of the artificially patina in the restored areas of ancient bronze pieces*”, in **BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI**, Section Materials Science and Engineering, (ISSN 1453-1690), Tom XLXI (LV), Fasc. 3-4, (2005), p. 197 - 204;

38. M. MATTEINI, I.C.A. SANDU, **I. SANDU**, "Peculiar aspects related to the european program LabSTECH, on materials and methods for conservation of cultural heritage", in **THE SCIENTIFIC ANNALS OF "AI.I.Cuza" UNIVERSITY OF IASI**, Theology Serie (ISSN 1221-5333), nr. 9 (2004), p. 553-572;
39. **I. SANDU**, I.C.A. SANDU, B. COJOCEA, "European modern policy concerning the conservation of hystorical monuments", in **THE SCIENTIFIC ANNALS OF "AI.I.Cuza" UNIVERSITY OF IASI**, Theology Serie (ISSN 1221-5333), nr. 9 (2004), p. 573-586;
40. **I. SANDU**, E. ARDELEANU, I.G. SANDU, "Methods and elements applied in the authentication of the artworks", in **THE SCIENTIFIC ANNALS OF "AI.I.Cuza" UNIVERSITY OF IASI**, Theology Serie (ISSN 1221-5333), nr. 9 (2004), p. 521- 532;
41. G. CIOBANU, **I. SANDU**, C. PASCU, O. CIOBANU, „Salt air generator for medicine recovery and environmental sanitation”, în **BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI**, Section Chemistry and Chemical Engineering, (ISSN 0254-7104), Tom XLIX (LIII), Fasc.1-2, (2004), p.97 – 108;
42. O. CIOBANU, **I. SANDU**, GABRIELA CIOBANU, C. PASCU, "SOLUȚII NOI ÎN MĂSURAREA CONCENTRAȚIEI DE IONI SALINI ÎN HALOTERAPIE" ÎN **REVISTA DE INVENTICĂ, IAȘI** (ISSN 1210-3084), VOL. VIII, NR. 45 (2004), P. 23-27;
43. **I. SANDU**, A. DIMA, I.G. SANDU, C. LUCA, I.C.A. SANDU, "Monitoring the behaviour of the conservation interventions of the Probota Monastery's indoor frescoes under the influence of the environment factors. III. Correlations between thermal, hygroscopic and sonic parameters", in **ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL**, (ISSN: 1582-9596), vol. 3, nr. 3 (2004), p.561-567;
44. **I. SANDU**, N. SULIȚANU, I.C.A. SANDU, A. DIMA, I.G. SANDU, V. DOROFTEI, B. OLAERU, „Conversia imaginilor iconografice din sistemul 3D în 2D și invers”, in **THE SCIENTIFIC ANNALS OF "AI.I.Cuza" UNIVERSITY OF IASI**, Theology Serie (ISSN 1221-5333), nr. 8 (2003), p. 349-358;
45. **I. SANDU**, A. DIMA, I.G. SANDU, C. LUCA, I.C.A. SANDU, "Monitoring the behaviour of the conservation interventions of the Probota Monastery's indoor frescoes under the influence of the environment factors. II.", in **ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL**, (ISSN: 1582-9596), vol. 2, nr. 4 (2003), p.317-331 (C.A. 446668b);
46. **I. SANDU**, I.G. SANDU, „Creativitatea științifică și tehnică în domeniul petrolului din România”, în **REVISTA DE INVENTICĂ, Iași**, (ISSN 1210-3084), vol. 8, anul XIII, nr. 41 (2003), p.6-18;
47. **I. SANDU**, A. DIMA, I. G. SANDU, „Materiale și tehnici moderne utilizate în conservarea și restaurarea armelor vechi”, în **BULETINUL MUZEULUI NAȚIONAL MILITAR**, București, (ISBN 973-668-025-8), Serie nouă, nr. 1/2003, tom I, p. 412-421;
48. **I. SANDU**, A. DIMA, I. G. SANDU, "Tendințe actuale în investigarea și conservarea artefactelor metalice", în **BULETINUL MUZEULUI NAȚIONAL MILITAR**, București, (ISBN 973-668-025-8), Serie nouă, nr. 1/2003, tom I, p. 421-432;
49. **I. SANDU**, A. DIMA, I.G. SANDU, C. LUCA, I.C.A. SANDU, "Monitoring the behaviour of the conservation interventions of the Probota Monastery's indoor frescoes under the influence of the environment factors. I.", în **ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL**, (ISSN: 1582-9596), vol. 2, nr. 1 (2003), p. 55 – 68 (C.A. 446666t);
50. C. LUCA, Viorica VASILACHE, **I. SANDU**, „Solvents utilisation in the Conservation process of Patrimony objects”, în **BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI**, Section Chemistry and Chemical Engineering, (ISSN 0254-7104), tom XLVIII (LII), fasc. 5, (2003), p.457-463;
51. C. LUCA, **I. SANDU**, A. DIMA, I.C.A. SANDU, I.G. SANDU, „Colorimetry Implications in the Scientific Investigation of the Works of Art I. Establishing the chromatic reintegration areas”, în în **BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI**, Section Chemistry and Chemical Engineering, (ISSN 0254-7104), tom XLIX (LIII), fasc. 5, (2003), p.445-449;
52. **I. SANDU**, A. DIMA, I.C.A. SANDU, I.G. SANDU, V. DOROFTEI, I.B. OLĂERU, „Aplicațiile colorimetriei în valorificarea bunurilor de patrimoniu cultural”, in **THE SCIENTIFIC ANNALS OF "AI.I.Cuza" UNIVERSITY OF IASI**, Theology Serie, (ISSN 1221-5333), nr. 6 (2002), p. 261 - 285;
53. **I. SANDU**, A. DIMA, I.G. SANDU, I.C.A. SANDU, „Effects and stages experienced by old metallic artefacts from cration to museum exhibition”, în **BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI**, , Secția Știința și Ingineria Materialelor, (ISSN 1453-1690), Tomul XLVIII (LII), Fasc. 3-4, (2002), p. 83 - 92 ;
54. I.G. SANDU, A. DIMA, **I. SANDU**, I.C.A. SANDU, „Marking ancient objects made out of precious metals”, în **BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI**, Tomul XLVII (LI), Fasc. 3-4, Secția Știința și Ingineria Materialelor, (ISSN 1453-1690), 2001, p. 115 - 123;
55. A. DIMA, **I. SANDU**, I.G. SANDU, I.C.A. SANDU, „Valorization of metallic objects belonging to the national and world cultural heritage”, în **BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI**, Secția Știința și Ingineria Materialelor, (ISSN 1453-1690), Tomul XLVII (LI), Fasc. 1-2, (2001), p. 141 - 150;
56. **I. SANDU**, L. GROLL, I.C.A. SANDU, „Principiile și terminologia utilizată în protejarea, conservarea și restaurarea monumentelor”, în în **BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI**, Secția Construcții. Arhitectura (ISSN 1224-3884), Tomul XLVII (LI), Fasc. 5, (2001), p11 - 22;
57. **I. SANDU**, C. DRAGOMIRESCU, D. BUDAIE, C. TUDOSE, I.C.A. SANDU, M. DRAGOMIR, „Aspecte biochimice privind bariera de permeabilitate a mucoasei bucale”, în **REVISTA DE MEDICINĂ STOMATOLOGICĂ, Iași** (ISSN 1453-1224), vol. V, Nr. 4, 2001, p. 482 - 488;
58. **I. SANDU**, G. COSTIN, D. BUDAIE, I.C.A. SANDU, C. DRAGOMIRESCU, „Metode și tehnici moderne utilizate în studiul compatibilității sistemelor biochimice”, în **REVISTA DE MEDICINĂ STOMATOLOGICĂ, Iași** (ISSN 1453-1224), vol. V, Nr. 4, 2001, p. 472-481;
59. D. BUDAIE, N. FURNA, **I. SANDU**, D. I. TOMIȚA, A. ULMEANU, „Ancheta fundamentală privind starea de sănătate oro-dentară realizată la școala profesională specială din Tg. Frumos”, în **REVISTA DE MEDICINĂ STOMATOLOGICĂ, Iași** (ISSN 1453-1224), vol. V, Nr. 4, 2001, p. 463-468;
60. D. BUDAIE, C. STADOLEANU, N. FURNA, **I. SANDU**, D. I. TOMIȚA, C. GHERMAN, A. CHISTRUGĂ, „Evaluarea necesităților de tratament stomatologic în cadrul școlii profesionale speciale din Tg. Frumos”, în **REVISTA DE MEDICINĂ STOMATOLOGICĂ, Iași** (ISSN 1453-1224), vol. V, Nr. 4, 2001, p. 447-450;
61. I.C.A. SANDU, **I. SANDU**, „Demersuri ale expertizei științifice in depistarea interventiilor de falsificare”, în **REVISTA MUZEELOR**, București, nr. 4,5,6, 2000, p 144-163;



62. I. SANDU, I.C.A. SANDU, „Expertizarea științifică a operelor de ară. III. Metodele interpretării utilizate de istoria artei”, în REVISTA MUZEELOR, București, nr. 1-3, 2000, p. 25-38;
63. I. SANDU, E. PRODAN, I.C.A. SANDU, D. CUDELUCU, „Aspecte practice privind expertizarea, conservarea și restaurarea operelor de artă. II. Compatibilitatea tehnicilor artistice vechi tradiționale cu noile materiale și metode de intervenție”, în REVISTA MUZEELOR, București, nr. 5-6, 1999, p. 4-10;
64. I. SANDU, E. PRODAN, I.C.A. SANDU, D. CUDELUCU, „Aspecte privind terminologia utilizată în expertizarea operelor de artă. I. Noțiuni privind identificarea elementelor patrimoniale și determinarea stării de conservare”, în REVISTA MUZEELOR, București, Nr. 3-4, 1999, p. 11-18;
65. I. SANDU, C.ONISCU, N. VORNICU, C. VORNICU, M. MARCUTA, „Researches Looking the Asepsitation “In Situ” of Ancient Book Storehouses”, în ROUMANIAN BIOTECHNOLOGICAL LETTERS - AN INTERNATIONAL JOURNAL, București, vol. 3, no. 1, (1998), p.43-51;
66. I. SANDU, I.C.A.SANDU, Antonia van SAANEN, „Expertiza științifică a operelor de artă. II. Metode moderne utilizate în cercetarea estetică”, ANALELE ȘTIINȚIFICE ALE UNIVERSITĂȚII “AL.I.CUZA” IAȘI, Seria Teologie, tom IV, (1997-1998), pp. 253-261;
67. I. SANDU, N. CAEA, I.C.A. SANDU, „Les politiques de conservation des biens culturels de l'Eglise Orthodoxe de Roumanie”, in THE SCIENTIFIC ANNALS OF “AL.I.Cuza” UNIVERSITY OF IASI, Theology Serie, (ISSN 1221-5333), vol. III, (1996), p.203-222;
68. Gh.NICA, I. SANDU, „Studiul metodei algoritmului generalizat in realizarea suprafetelor metalice performante”, în TRATAMENTE TERMICE SI INGINERIA SUPRAFETELOR, Cluj Napoca, (ISSN 1221-1176), vol.IV, nr.1(1995), p. 3-12;
69. I. SANDU, M. AGOP, Gh. ZET, V.MELNIC, M.CAIA, „New aspecte in the invariantive mechanics”, în BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI, Seria Fizică, (ISSN 0254-7104), tom XXXVIII (XLII), fasc.1 - 4, (1992), p. 99-102;
70. V.MELNIC, M.AGOP, I. SANDU, M.CAIA, „Quelques significations physiques sur la variété du groupe unimodulaire  $G_3$ ”, în în BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI, Seria Fizică, (ISSN 0254-7104), tom.XXXVIII (XLII), fasc. 1 - 4, (1992), p. 95-98;
71. I. SANDU, „Inventica in dezvoltarea surselor electrochimice de curent”, în REVISTA DE INVENTICA, Iași (ISSN 1210-3084), vol. 2, nr. 1, p.11-20, (1990);
72. N. CALU, I. SANDU, A. BOLD, I.BERDAN, A. R. IORDAN, „Polucenie i harakteristika nekotorih form  $MnO_2$  dlea galvaniceskih suhiv elementov i bateriei”, în BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI, Section Chemistry and Chemical Engineering, (ISSN 0254-7104), tom. XXXVI (XXXVIII), fasc. 1- 4, (1988), p. 1-8;
73. C. CALISTRU, C.LEONTE, St.PETRESCU, I. SANDU, „Kvoproso modelirovania protesa hemosorbtiij”, în în BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI, Section Chemistry and Chemical Engineering, (ISSN 0254-7104), tom. XXXII (XXXVI), fasc.1-4 (1986), p.53-58;
74. N.CALU, A. BOLD, O. VICOL, E. SAVIUC, I. BERDAN, I. SANDU, „Méthodes pour la caracterisation physico-chimique des mélanges de colorants”, în în BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI, Section Chemistry and Chemical Engineering, (ISSN 0254-7104), tom XXXI (XXXV), fasc. 1-4, sect. II, (1985) p. 15-23;
75. N. CALU, A. R. IORDAN, I. SANDU, „Le système Ni(II) - isopropanolamine (I)”, în în BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI, Section Chemistry and Chemical Engineering, (ISSN 0254-7104) tom. XXXI (XXXV), fasc. 1 - 4, (1985) p. 7-15, (C.A.12 B(V) 106/1987);

#### I. Papers Published in National Proceedings, non ISI (128):

1. I. SANDU, R.-G. CURCA, V. VASILACHE, M. CANACHE, *The correlation between the chemical composition and the domestic uses of brine*, Second ARHEOINVEST Symposium from the athno-archaeology to the anthropology of salt (ISBN 978-973-703-758-9), Ed. Universitatii „Alexandru Ioan Cuza” Iasi, 2012, p. 12;
2. M. CANACHE, I. SANDU, *The use of salt for marking special moments in human life*, Second ARHEOINVEST Symposium from the athno-archaeology to the anthropology of salt (ISBN 978-973-703-758-9), Ed. Universitatii „Alexandru Ioan Cuza” Iasi, 2012, p. 18;
3. I. SANDU, V. VASILACHE, V. COTIUGĂ, O. MIRCEA, *Aspecte noi privind investigarea științifică a artefactelor arheologice*, Al cincilea Simpozion Național de Arheometrie, Bucuresti, 22-24.mart. 2012,
4. I. SANDU, O. MIRCEA, V. COTIUGĂ, I.G. SANDU, V.VASILACHE, *Complementary methods and techniques involved in the investigation of the characteristics archaeological bronze artefacts*, Al cincilea Simpozion Național de Arheometrie, Bucuresti, 22-24.mart. 2012,
5. I. SANDU, V. COTIUGĂ, V. VASILACHE, A.V. SANDU, O. MIRCEA, *Complementary methods and techniques involved in the investigation of the characteristics archaeological lof the ceramic artefacts*, Al cincilea Simpozion Național de Arheometrie, Bucuresti, 22-24.mart. 2012,
6. I. SANDU, V. VASILACHE, A.P. CRETU, V. COTIUGA, *Tehnici competitive integrate utilizate in studiul unor caracteristici arheometrice a unor statuiete antropomorfe din Cultura Precucuteni*, Al cincilea Simpozion Național de Arheometrie, Bucuresti, 22-24.mart. 2012,
7. O. MIRCEA, I. SANDU, V. VASILACHE, I. G. SANDU, *Obiecte de podoabă și port antice. Stări de conservare si evolutii în timp*, Conferința Națională de Antropologie, Roman, 2012,
8. V. MIHAILESCU-BARLIBA, S. CHEPTEA, I. SANDU, V. VASILACHE, „Two ancient bracelets from the fourth century A.D.”, in Archaeology: Making of and Practice, Ed. Ordessos (ISBN 978-606-92525-4-3), Pitesti, 2011, pp. 255-261;
9. O. MIRCEA, I. SANDU, V. VASILACHE, I.G. SANDU, *Studiul efectelor de deteriorare și de degradare a artefactelor metalice extrase din diferite situri arheologice*, Lucrările primului Simpozion Național ARHEOIVEST - Aventura cuprului in preistorie, Iași, 20-22.Oct.2011, Lucr. Nr. 7;
10. V. MIHAILESCU-BÎRLIBA, S. CHEPTEA, I. SANDU, V. VASILACHE, „The authentication of two ancient bracelets using the SEM-EDX method”, First ARHEOINVEST Congress, Interdisciplinary Research in Archaeology, Ed. Universității “Al.I.Cuza” Iasi, (ISBN 978-973-640-661-4), 2011, p. 73-74 (<http://arheoinvestcongress.uaic.ro>);

11. V. COTIUGĂ, N. URSULESCU<sup>1</sup>, V.VASILACHE, I.SANDU, "Atypical Zonal Concentration of Calcium Carbonate Deposits in Bulks of Prehistoric Ceramic Materials with Gresous Internal Structures Caused by the Manufacturing Process", **First ARHEOINVEST Congress, Interdisciplinary Research in Archaeology**, Ed. Universității "Al.I.Cuza" Iasi, (ISBN 978-973-640-661-4), 2011, p.72, (<http://arheoinvestcongress.uaic.ro>);
12. M. BRĂNZILĂ, D. BULGARIU, I. SANDU, "Efectele factorilor geologico-antropici asupra lucrărilor de patrimoniu din Municipiul Iași - Râpa Galbenă", **First ARHEOINVEST Congress, Interdisciplinary Research in Archaeology**, Ed. Universității "Al.I.Cuza" Iasi, (ISBN 978-973-640-661-4), 2011, p.41-42, (<http://arheoinvestcongress.uaic.ro>);
13. B.A. HAGIU, L.B. UNGUREANU, I.SANDU, O.C. MUNGIU, „Cercetari preliminare privind efectul regenerativ al nanodispersiei de argint in emulsie apa/ulei asupra muschilor scheletici”, **Pain and Drug Research (editor O.C. Mungiu)**, (ISSN 1843-1038), Ed. „Gr.T.Popa” Iasi, 2011, pp. 30-36 ([www.algezio.ro](http://www.algezio.ro));
14. I. SANDU, *Creativitatea tehnică românească la răscruce de vânturi*, **Romanian Creativity in European Context** (ed. Ion Sandu), Ed. Tehnopress, (ISBN 978-973-702-851-8), Iasi, 2011, p.197-214 (<http://www.eudirect.ro/euroinvent/cat/w2011.pdf>);
15. M. CANACHE, I. SANDU, G. DROCHIOIU, T. LUPASCU, I.G. SANDU, *Therapeutic role of saline solions in apolluted environment*, **Romanian Creativity in European Context** (ed. Ion Sandu), Ed. Tehnopress, (ISBN 978-973-702-851-8), Iasi, 2011, p.233-240 (<http://www.eudirect.ro/euroinvent/cat/w2011.pdf>);
16. C. ȘTIRBU, C. ȘTIRBU, I. SANDU, *Impact assessment of saline aerosols on exercise capacity of athletes*, **Romanian Creativity in European Context** (ed. Ion Sandu), Ed. Tehnopress, (ISBN 978-973-702-851-8), Iasi, 2011, p.241-248 (<http://www.eudirect.ro/euroinvent/cat/w2011.pdf>);
17. L. CHIRILĂ, I. SANDU, R. BUTNARU, A.V. SANDU, *New premetallised dye for wool industry with low environmental impact*, **Romanian Creativity in European Context** (ed. Ion Sandu), Ed. Tehnopress, (ISBN 978-973-702-851-8), Iasi, 2011, p.271-276 (<http://www.eudirect.ro/euroinvent/cat/w2011.pdf>);
18. C. LUCHIAN, V. COTEA, M. NICULAU, I. SANDU, *SBA-15 - New adsorbent for bioactive components from wine*, **Romanian Creativity in European Context** (ed. Ion Sandu), Ed. Tehnopress, (ISBN 978-973-702-851-8), Iasi, 2011, p.277-284 (<http://www.eudirect.ro/euroinvent/cat/w2011.pdf>);
19. V. VASILACHE, D. APARASCHIVEI, I. SANDU, *Interdisciplinary study of metal artifacts to discover the site ibida, Romania*, **Romanian Creativity in European Context** (ed. Ion Sandu), Ed. Tehnopress, (ISBN 978-973-702-851-8), Iasi, 2011, p.285-288 (<http://www.eudirect.ro/euroinvent/cat/w2011.pdf>);
20. L.G.GHERMAN, I. SANDU, V.VASILACHE, A.V. SANDU, *Consequences of treatment on the dimensional stability of wood panel*, **Romanian Creativity in European Context** (ed. Ion Sandu), Ed. Tehnopress, (ISBN 978-973-702-851-8), Iasi, 2011, p.241-248 (<http://www.eudirect.ro/euroinvent/cat/w2011.pdf>);
21. V.E.COPCIA, R. GRADINARU, N. BILBA, I.G. SANDU, *New aspects on the antibacterial activity of ZnO dispersed nanoparticles into SBA-15*, **Romanian Creativity in European Context** (ed. Ion Sandu), Ed. Tehnopress, (ISBN 978-973-702-851-8), Iasi, 2011, p.241-248 (<http://www.eudirect.ro/euroinvent/cat/w2011.pdf>);
22. I. SANDU, „*Recunoașteri internaționale ale școlii ieșene de investigare și conservare științifică a bunurilor de patrimoniu cultural*”, 150 de ani de la întemeiere și 20 de ani de la renașterea învățământului teologic modern (ed. V. Sava, D. Sandu), Ed. Doxologia Iași, 2010, pp. 366-388;
23. B.A. HAGIU, A.N. BOCA, V. TURA, N. HAGIU, L.B. UNGUREANU, A. NEAGU, I. SANDU, A.V. SANDU, I.I. MANGALAGIU, B. TAMBA, O.C. MUNGIU, "The Cicatrization and Regeneration Action of a Powder Containing Silver Nanoparticles", **DermatoVenerologie**, (Bucharest), 55, 2010, p. 122/The 10<sup>th</sup> National Congress of Dermatology, 17 – 20 november, 2010, Bucharest, Crystal Palace Ballrooms, Romania;
24. I. SANDU, V. VASILACHE, C. LAZANU, „*Noi cercetari asupra unor vârfuri de lance de la Muzeul Județean Țștefan cel Mare” Vaslui*”, **A XXXIII a Sesiuni Naționale de Comunicări Științifice, ACTA Moldaviae Meridionalis**, Vaslui, 19-20 Nov, 2010;
25. A.M. SAVIUC PAVAL, I. SANDU, A.V. SANDU, V. VASILACHE, G. LISA, M.I. POPA, „*Pigmenti anorganici foto si termostabili utilizati la mozaicuri si vitralii*”, **Zilele Facultatii de Inginerie Chimica și Protectia Mediului, Editia a VII-a, „90 de Ani de la Nașterea Academicianului Cristofor SIMIONESCU”** Iași, 2010
26. I. SANDU, O. WELLER, M. ALEXIANU, R. CURCA, V. VASILACHE, „*Caracteristici arheometrice la ceramica pentru brichetaje*”, **Zilele Facultatii de Inginerie Chimica și Protectia Mediului, Editia a VII-a, „90 de Ani de la Nașterea Academicianului Cristofor SIMIONESCU”** Iași, 2010
27. I. SANDU, N.VOLOVĂȚ, A.V. SANDU, "Actual Aspects for Encouragement of Technical Creativity", **Romanian Creativity in European Context**, Ed. Tehnopress (ISBN 978-973-702-769-6), Iasi, 2010, pp. 173-188;
28. C. GHERASIMESCU, R. BUTNARU, I. SANDU, A.-C. CIOCAN, A.V. SANDU, "Noi procedee de tratare a materialelor textile din bumbac", **Romanian Creativity in European Context**, Ed. Tehnopress (ISBN 978-973-702-769-6), Iasi, 2010, pp. 207-214;
29. C. BEJINARIU, A.V. SANDU, C. BACIU, I. SANDU, Ș.L. TOMA, I. G. SANDU, „*Purification of Waste Waters and Treatment of Subproducts Resulted from Phosphatation of Iron Objects*”, in volumul **Simpozionului ECOINGINERIA SUPRAFEȚEI**, Ed. University Press GUP (ISSN 1843-5807), Galați, 2009, p. 221-225;
30. V. VASILACHE, C. LUCA, I. SANDU, N. VRÎNCEANU, „*Analiza colorimetrică privind degradarea obiectelor din lemn policrom sub influența umidității*”, **Materiale și procese inovative**, ediția a V-a, Ed. Politehniun (ISBN 978-973-621-255-0), Iași, 2008, p. 98-103;
31. N. VRÎNCEANU, D. COMAN, A. GRIGORIU, I. SANDU, V. VASILACHE, „*Modificarea hidrofiliei unor suprafețe de materiale textile din fibre poliamidice prin tratament laser excimer UV*”, **Materiale și procese inovative**, ediția a V-a, Ed. Politehniun (ISBN 978-973-621-255-0), Iași, 2008, p. 98-103;
32. V. TURA, F. TOFOLEANU, F. BRINZA, N. SULITANU, T. BALAU-MANDRU, V. FLORISTEANU, I. SANDU, C. CIOBANU, „*Silver ion releasing properties of polyurethane-silver nanocomposites*”, **Conferința Națională FTEM 2007, „FIZICA ȘI TEHNOLOGIILE EDUCAȚIONALE MODERNE”**, Iași, 18 – 19 mai 2007, p.;

33. V. TURA, F. TOFOLEANU, F. BRINZA, N. SULITANU, I. SANDU, T. BALAU-MANDRU, I. BALAU-MANDRU, Th. MALUTAN „Silver nanoparticles deposition on PVC electrospun nanofibers”, **Conferința Națională FTEM 2007, „FIZICA ȘI TEHNOLOGIILE EDUCAȚIONALE MODERNE**”, Iași, 18 – 19 mai 2007, p.;
34. I. SANDU, C. PASCU, V. VASILE, „Obținerea aerosolilor salini uscați pentru medii terapeutice”, în HALOTHERAPY, ADJUVANT THERAPY IN THE TREATMENT OF RESPIRATORY DISORDERS, <http://saltmed.blogspot.com/>, 13.APR.2006, p. 15 – 19;
35. N.LUȚĂ, S.VELEA, I. SANDU, O. PETREUȘ, Gh. RĂCEANU, M. POPESCU, C. NEAMȚU, „Pesticide complexe cu activitate polivalentă (insecto-fungicidă), utilizate pentru protecția bunurilor de patrimoniu național, mobil și imobil, realizat din material lemnos” în a XXIX **CONFERINȚĂ NAȚIONALĂ DE CHIMIE**, Călimănești-Căciulata, 4-6 octombrie 2006, p. 47;
36. PETREUȘ, I. SANDU, N. LUȚĂ, C. HAMCIUC, V. VASILACHE, „Procedee moderne de conservare a lemnului vechi pus în operă. Principii active și sisteme matriciale polimerice”, în **PRODUSE ȘI TEHNOLOGII PENTRU CONSERVAREA PATRIMONIULUI CULTURAL ȘI ISTORIC**, Ed. Performantica (ISBN 973-730-221-4), Iași, 2006, p. 47-74;
37. T. CRETEANU, V. VASILACHE, L.G. SCUTĂRIȚĂ, I. SANDU, „Cazuistici privind degradarea pigmentilor din straturile picturale”, în **PRODUSE ȘI TEHNOLOGII PENTRU CONSERVAREA PATRIMONIULUI CULTURAL ȘI ISTORIC**, Ed. Performantica (ISBN 973-730-221-4), Iași, 2006, p. 145-206;
38. I. SANDU, O. PETREUȘ, N. LUȚĂ, I.G. SANDU, V. VASILACHE, A.V. SANDU „Implicarea lemnului la punerea în operă a bunurilor de patrimoniu cultural. Tipologii și cazuistici”, în **PRODUSE ȘI TEHNOLOGII PENTRU CONSERVAREA PATRIMONIULUI CULTURAL ȘI ISTORIC**, Ed. Performantica (ISBN 973-730-221-4), Iași, 2006, p. 237-256;
39. I. SANDU, V. VASILACHE, I.G. SANDU, O. PETREUȘ, T. BUBULAC, „Evidențierea și monitorizarea intervențiilor de conservare a lemnului prin sisteme pelicologene”, în **PRODUSE ȘI TEHNOLOGII PENTRU CONSERVAREA PATRIMONIULUI CULTURAL ȘI ISTORIC**, Ed. Performantica (ISBN 973-730-221-4), Iași, 2006, p. 257-274;
40. I. SANDU, „Sacrificiul de Sine” (eseu autobiografic), în **CUVINTE PENTRU URMAȘI – Modele și exemple pentru Omul Român**, (Părinții României de azi), Ed. Carpathia Press, București, (ISBN 973-7609-00-X), 2005, p. 205-210;
41. I. SANDU, M. VASILACHE, A-K. DORNESCU, A. TUDORACHE, P.C. CANTORIU, „Expertiza stării de conservare a Bisericii Armenești din Iași”, în **MONUMENTUL V**, Ed. Trinitas, Iași (ISBN 973-8179-57-2), 2004, p. 303-313;
42. I. SANDU, A-K. ORNESCU, I.G. SANDU, A.V. SANDU „Expertiza stării de conservare a bisericii din lemn cu hramul „Cuvioasa Parascheva” din localitatea Miroslovești, jud. Iași”, în **MONUMENTUL V**, Ed. Trinitas, Iași (ISBN 973-8179-57-2), 2004, p. 313-319;
43. I. SANDU, M. VASILACHE, I.G. SANDU, „Metodologia autentificării monumentelor”, în **INTERACȚIUNEA CONSTRUCȚIILOR CU MEDIUL ÎNCONJURĂTOR**, Ed. „Gh. Asachi”, Iași (ISBN 973-7962-17-6), 2003, p.222-231;
44. I. SANDU, M. VASILACHE, I.G. SANDU, „Politiici actuale privind conservarea monumentelor”, în **INTERACȚIUNEA CONSTRUCȚIILOR CU MEDIUL ÎNCONJURĂTOR**, Ed. „Gh. Asachi”, Iași, (ISBN 973-7962-17-6), 2003, p.216-221;
45. I. SANDU, I.C.A. SANDU, I.G. SANDU, „Consolidarea fundațiilor monumentelor prin silicatizare”, în **MONUMENTUL, TRADIȚIE ȘI VIITOR**, vol.III, Ed. Trinitas (ISBN 973-8179-81-5), Iași, 2003, p. 127-139;
46. I. SANDU, I.C.A. SANDU, I.G. SANDU, „Expertize implicate în investigarea științifică a sitului Mănăstirii Probota”, în **MONUMENTUL, ISTORIE, ARHEOLOGIE, RESTAURARE, CONSERVARE**, Ed. Junimea (ISBN 973-37-0752-X), Iași, 2002, p. 183-191;
47. I. SANDU, I.C.A. SANDU, I.G. SANDU, „Studii privind comportarea straturilor de preparație, după restaurarea frescelor de interior din Biserica Mănăstirii Probota (secol XVI) I. Modificările caracteristicilor fizico-structurale, chimice și hidrice”, în **MONUMENTUL. TRADIȚIE ȘI VIITOR**, Ed. Junimea (ISBN 973-37-0634-5), Iași, 2001, p. 216-234;
48. I. SANDU, I.C.A. SANDU, I.G. SANDU, „Utilizarea metodelor termice de analiză în evaluarea stării de conservare și determinarea vechimii bunurilor de patrimoniu cultural”, în **MONUMENTUL. TRADIȚIE ȘI VIITOR**, Ed. Junimea (ISBN 973-37-0634-5), Iași, 2001, p 212-215;
49. I. SANDU, N. MELNICIUC-PUICA, N. VORNICU, I.C.A. SANDU, „Strategii Utilizate în conservarea bunurilor culturale din Biserica Ortodoxă Română”, în PEUCE XIII, **CONSERVARE-RESTAURARE**, Tulcea, (ISBN 973-0-02043-4), 2000, p 113-117;
50. I. SANDU, D. CUDELUCU, „Perspective metodologice în cercetarea patrimoniului cultural”, în **ȘTIINȚA, TEHNICA ȘI ARTA CONSERVĂRII PATRIMONIULUI CULTURAL**, supliment al **ANALELOR ȘTIINȚIFICE ALE UNIVERSITĂȚII "AL.I. CUZA" IASI** (ISSN 1221-5333), tom III, 1999, p.3-12;
51. I. SANDU, G. FĂDUR, I.C.A. SANDU, „Metodele istoriografice bazate pe analogie și comparație în datarea documentelor scrise și desenate. (I). Analiza istorico-artistică”, în **ȘTIINȚA, TEHNICA ȘI ARTA CONSERVĂRII PATRIMONIULUI CULTURAL**, supliment al **ANALELOR ȘTIINȚIFICE ALE UNIVERSITĂȚII "AL.I. CUZA" IASI** (ISSN 1221-5333), tom III, 1999, p.31-60;
52. I. SANDU, G. FĂDUR, în „Metodele istoriografice bazate pe analogie și comparație în datarea documentelor scrise și desenate. (II). Analiza prin metoda paleografică”, în **ȘTIINȚA, TEHNICA ȘI ARTA CONSERVĂRII PATRIMONIULUI CULTURAL**, supliment al **ANALELOR ȘTIINȚIFICE ALE UNIVERSITĂȚII "AL.I. CUZA" IASI** (ISSN 1221-5333), tom III, 1999, p.61-88;
53. I. SANDU, G. FĂDUR, „Metodele istoriografice bazate pe analogie și comparație în datarea documentelor scrise și desenate. (III). Analiza cu ajutorul filigranelor”, în **ȘTIINȚA, TEHNICA ȘI ARTA CONSERVĂRII PATRIMONIULUI CULTURAL**, supliment al **ANALELOR ȘTIINȚIFICE ALE UNIVERSITĂȚII "AL.I. CUZA" IASI** (ISSN 1221-5333), tom III, 1999, p.89-120;
54. I. SANDU, I.C.A. SANDU, D. CUDELUCU, I.G. SANDU, „Analiza multispectrală a materialelor picturale din structurile policrome ale operelor de artă”, în **ȘTIINȚA, TEHNICA ȘI ARTA CONSERVĂRII PATRIMONIULUI CULTURAL**, supliment al **ANALELOR ȘTIINȚIFICE ALE UNIVERSITĂȚII "AL.I. CUZA" IASI** (ISSN 1221-5333), tom III, 1999, p.349-365;
55. I. SANDU, A.N. RUSU, I.C.A. SANDU, N. VORNICU, „Autentificarea și stabilirea paternității prin metoda istoriografică. Analiză de caz”, în **ȘTIINȚA, TEHNICA ȘI ARTA CONSERVĂRII PATRIMONIULUI CULTURAL**, supliment al **ANALELOR ȘTIINȚIFICE ALE UNIVERSITĂȚII "AL.I. CUZA" IASI** (ISSN 1221-5333), tom III, 1999, p.377-397;
56. I. SANDU, „Activitatea de cercetare fundamentală din domeniul patrimoniului cultural”, în **ANALELE ȘTIINȚIFICE ALE UNIVERSITĂȚII "AL.I. CUZA" IAȘI**, Seria Patrimoniu Cultural, vol.II, 1998, p.5-15;
57. I. SANDU, I.C.A. SANDU, A. van SAANEN, „Expertiza patrimonială a operelor de artă cu ajutorul criteriilor de evaluare”, în **ȘTIINȚA, TEHNICA ȘI ARTA CONSERVĂRII PATRIMONIULUI CULTURAL**, supliment al **ANALELOR ȘTIINȚIFICE ALE UNIVERSITĂȚII "AL.I. CUZA" IASI** (ISSN 1221-5333), vol.II, 1998, p.27-39;

58. **I. SANDU**, N. VORNICU, I.C.A. SANDU, C. BIBIRE, „Cercetări privind microflora de pe fresca interioară a Mănăstirii Probota”, în **ȘTIINȚA, TEHNICA ȘI ARTA CONSERVĂRII PATRIMONIULUI CULTURAL**, supliment al ANALELOR ȘTIINȚIFICE ALE UNIVERSITĂȚII "AL.I. CUZA" IASI (ISSN 1221-5333), vol.II, 1998, p.43-57;
59. **I. SANDU**, G. LIMIȘCĂ, „Evoluția nivelelor de emisii poluante. Metode de control și de ameliorare”, în **ȘTIINȚA, TEHNICA ȘI ARTA CONSERVĂRII PATRIMONIULUI CULTURAL**, supliment al ANALELOR ȘTIINȚIFICE ALE UNIVERSITĂȚII "AL.I. CUZA" IASI (ISSN 1221-5333), vol.II, 1998, p.93-107;
60. **I. SANDU**, G. DAVID, U. CERNENCO, „Studiul interacțiunii pigment-liant în obținerea vopselelor cu proprietăți superioare”, în **ȘTIINȚA, TEHNICA ȘI ARTA CONSERVĂRII PATRIMONIULUI CULTURAL**, supliment al ANALELOR ȘTIINȚIFICE ALE UNIVERSITĂȚII "AL.I. CUZA" IASI (ISSN 1221-5333), vol.II, 1998, p.135-149;
61. **I. SANDU**, M. ISPIR, C. TUDOR, I.C.A. SANDU, „Metodă și dispozitiv pentru analiza comparativă a suprafețelor policrome”, în **ȘTIINȚA, TEHNICA ȘI ARTA CONSERVĂRII PATRIMONIULUI CULTURAL**, supliment al ANALELOR ȘTIINȚIFICE ALE UNIVERSITĂȚII "AL.I. CUZA" IASI (ISSN 1221-5333), vol.II,1998, p.169-175;
62. **I. SANDU**, „Cercetarea științifică și valorificarea patrimoniului cultural din siturile ecleziastice ortodoxe”, în **ȘTIINȚA, TEHNICA ȘI ARTA CONSERVĂRII PATRIMONIULUI CULTURAL**, supliment al ANALELOR ȘTIINȚIFICE ALE UNIVERSITĂȚII "AL.I. CUZA" IASI (ISSN 1221-5333), vol. I , 1997, p. 3-21;
63. **I. SANDU**, „Evidențierea și procesarea efectelor distructive din structura obiectelor de patrimoniu cultural”, în **ȘTIINȚA, TEHNICA ȘI ARTA CONSERVĂRII PATRIMONIULUI CULTURAL**, supliment al ANALELOR ȘTIINȚIFICE ALE UNIVERSITĂȚII "AL.I. CUZA" IASI (ISSN 1221-5333), vol. I , 1997, p. 39-53;
64. **I. SANDU**, N. MELNICIUC-PUICA, V. VASILACHE, S. NICULA, I.C.A. SANDU, „Influența factorilor de imbatrinire artificială asupra proprietăților suporturilor papetare din materiale celulozice”, în **ȘTIINȚA, TEHNICA ȘI ARTA CONSERVĂRII PATRIMONIULUI CULTURAL**, supliment al ANALELOR ȘTIINȚIFICE ALE UNIVERSITĂȚII "AL.I. CUZA" IASI (ISSN 1221-5333), vol. I , 1997, p. 61-84;
65. **I. SANDU**, C. LUCA, V. VASILACHE, S. NICULA, I.C.A. SANDU, U. CERNENCO, „Studii privind influența solventilor organici asupra deplasării echilibrului hidric al lemnului (I)”, în **ȘTIINȚA, TEHNICA ȘI ARTA CONSERVĂRII PATRIMONIULUI CULTURAL**, supliment al ANALELOR ȘTIINȚIFICE ALE UNIVERSITĂȚII "AL.I. CUZA" IASI (ISSN 1221-5333), vol. I , 1997, p. 89-121;
66. **I. SANDU**, N. VORNICU, C. VORNICU, „Studii de compatibilitate privind utilizarea lianților naturali ca atare sau în amestec cu unii lianți sintetici, în procesele de restaurare a suporturilor papetare”, în **ȘTIINȚA, TEHNICA ȘI ARTA CONSERVĂRII PATRIMONIULUI CULTURAL**, supliment al ANALELOR ȘTIINȚIFICE ALE UNIVERSITĂȚII "AL.I. CUZA" IASI (ISSN 1221-5333), vol. I , 1997, p. 151-163;
67. **I. SANDU**, G. LIMISCA, „Elucidarea mecanismului de formare a crustelor de pe materiale ceramice arheologice”, în **ȘTIINȚA, TEHNICA ȘI ARTA CONSERVĂRII PATRIMONIULUI CULTURAL**, supliment al ANALELOR ȘTIINȚIFICE ALE UNIVERSITĂȚII "AL.I. CUZA" IASI (ISSN 1221-5333), vol. I, 1997, p. 207-219;
68. **SANDU**, G. LIMISCA, I.C.A. SANDU, G. GHERIS, „Studii privind conservarea materialelor ceramice arheologice”, în **ȘTIINȚA, TEHNICA ȘI ARTA CONSERVĂRII PATRIMONIULUI CULTURAL**, supliment al ANALELOR ȘTIINȚIFICE ALE UNIVERSITĂȚII "AL.I. CUZA" IASI (ISSN 1221-5333), vol. I, 1997, p. 225-239;
69. **I. SANDU**, M. MUSTATA, N. VORNICU, C. VORNICU, M. MARCUTA, P. BRISCARU, „Metoda de conservare și tratare "in situ" a depozitelor de carte veche”, în **ȘTIINȚA, TEHNICA ȘI ARTA CONSERVĂRII PATRIMONIULUI CULTURAL**, supliment al ANALELOR ȘTIINȚIFICE ALE UNIVERSITĂȚII "AL.I. CUZA" IASI (ISSN 1221-5333), vol. I, 1997, p. 245-265;
70. **I. SANDU**, „Studiul metodelor de suprastructurare a mediilor de dispersie utilizate ca matrici semiinerte în procesele de conservare”, în **ȘTIINȚA, TEHNICA ȘI ARTA CONSERVĂRII PATRIMONIULUI CULTURAL**, supliment al ANALELOR ȘTIINȚIFICE ALE UNIVERSITĂȚII "AL.I. CUZA" IASI (ISSN 1221-5333), vol. I, 1997, p. 285-293;
71. **I. SANDU**, „Evaluarea activității de cercetare științifică și dezvoltarea tehnologică. Criterii de evaluare”, în **ȘTIINȚA, TEHNICA ȘI ARTA CONSERVĂRII PATRIMONIULUI CULTURAL**, supliment al ANALELOR ȘTIINȚIFICE ALE UNIVERSITĂȚII "AL.I. CUZA" IASI (ISSN 1221-5333), vol. I, 1997, 311-327;
72. **I. SANDU**, D. POPA, M. CRISTACHE, C. GRATIE, „Aspecte din istoria cercetării polimerilor conductori”, în **ISTORIA SI FILOSOFIA ȘTIINȚEI**, Ed. Univ."Al.I.Cuza" Iasi, edițiile II și III, vol.I, 1988, p.471-474;
73. N. CALU, **I. SANDU**, D. ALEXOAIIE, M. MOSNEGUTU, „Geneza elementelor chimice” în **ISTORIA SI FILOSOFIA ȘTIINȚEI**, Ed. Univ."Al.I.Cuza" Iasi, edițiile II și III, vol.I, 1988, p.475-481;
74. N.CALU, **I. SANDU**, M. CRISTACHE, M. ANDREI, „Numerele magice și arheologia elementelor supragrele”, în **ISTORIA SI FILOSOFIA ȘTIINȚEI**, Ed. Univ."Al.I.Cuza" Iasi, edițiile.II și III, vol.I, 1988, p.482-488;
75. **I. SANDU**, C. STANCIU, M. MOSNEGUTU, „Aspecte din istoria pilelor galvanice”, în **ISTORIA SI FILOSOFIA ȘTIINȚEI**, Ed. Univ."Al.I.Cuza" Iasi, edițiile.II și III, vol.I, 1988, p.488-496;
76. N. CALU, **I. SANDU**, L. GEORGESCU, S. MITREA, „Contribuții românești la dezvoltarea pilelor electrochimice”, în **ISTORIA SI FILOSOFIA ȘTIINȚEI**, Ed. Univ."Al.I.Cuza" Iasi, edițiile.II și III, vol.I, 1988, p.496-502;
77. BERDAN, **I. SANDU**, C. MITA, I. PINTILIEI, „Principiul cauzalității în chimie”, în **ISTORIA SI FILOSOFIA ȘTIINȚEI**, Ed. Univ."Al.I.Cuza" Iasi, edițiile II și III, vol.II, 1988, p.1143-1147;
78. ROSCA, **I. SANDU**, C. LUCA, M. PALAMARU, „Studii privind comportarea unor agenți activi de suprafață în stanarea lucioasă”, în **CONTRIBUTIA INVATAMINTULUI POLITEHNIC LA DEZVOLTAREA RAMURILOR DE VIRF ALE INDUSTRIEI DIN ROMANIA**, vol.X, sec.XXIX-XXXII, , Ed. Inst.Pol. "Gh.Asachi" Iasi, 1988, p.13-17;
79. **I. SANDU**, N. CALU, I. BERDAN, „Cercetări privind comportarea acido-bazică a MnO<sub>2</sub> activ ca sistem redox monofazic”, în **CONTRIBUTIA INVATAMINTULUI POLITEHNIC LA DEZVOLTAREA RAMURILOR DE VIRF ALE INDUSTRIEI DIN ROMANIA**, vol.X, sec.XXIX-XXXII, , Ed. Inst.Pol. "Gh.Asachi" Iasi, 1988, p.54-58
80. N. CALU, A. BOLD, **I. SANDU**, I. BERDAN, „Amestecuri catodice pe baza de MnO<sub>2</sub> ca sisteme redox difazice”, în **CONTRIBUTIA INVATAMINTULUI POLITEHNIC LA DEZVOLTAREA RAMURILOR DE VIRF ALE INDUSTRIEI DIN ROMANIA**, vol.X, sec.XXIX-XXXII, , Ed. Inst.Pol. "Gh.Asachi" Iasi, 1988, p.58-60;

81. BERDAN, N. CALU, I. SANDU, „*Studiu privind reactivitatea hidroxilaminei*”, în **CONTRIBUTIA INVATAMINTULUI POLITEHNIC LA DEZVOLTAREA RAMURILOR DE VIRF ALE INDUSTRIEI DIN ROMANIA**, vol.X, sec.XXIX-XXXII, Ed. Inst.Pol. "Gh.Asachi" Iasi, 1988, p.300-303;
82. I. SANDU, N. CALU, I. BERDAN, M. CALU, „*Studii reologice pe sistemul grafit coloidal-apa, obtinut din negru de fum prin grafitizare "in situ"*”, în **CONTRIBUTIA INVATAMINTULUI POLITEHNIC LA DEZVOLTAREA RAMURILOR DE VIRF ALE INDUSTRIEI DIN ROMANIA**, , Ed. Inst.Pol. "Gh.Asachi" Iasi, vol.X, sec.XXIX-XXXII, 1988, p.387-391;
83. T. VIDRAȘCU, E. NEAGU, A. PĂDURARU, I. SANDU, „*Cercetări asupra funcționării sistemului electronic de aprindere electrică de tip capacitiv*”, în **CONTRIBUTIA INVATAMINTULUI POLITEHNIC LA DEZVOLTAREA RAMURILOR DE VIRF ALE INDUSTRIEI DIN ROMANIA**, , Ed. Inst.Pol. "Gh.Asachi" Iasi, vol.I, sec.XXIX-XXXII, 1988, p.17-26;
84. T. VIDRAȘCU, A. PĂDURARU, E. NEAGU, I. SANDU, „*Studiu asupra dispozitivului electronic de aprindere electrică*”, în **CONTRIBUTIA INVATAMINTULUI POLITEHNIC LA DEZVOLTAREA RAMURILOR DE VIRF ALE INDUSTRIEI DIN ROMANIA**, Ed. Inst.Pol. "Gh.Asachi" Iasi, vol.I, sec.XXIX-XXXII, 1988, p.58-64;
85. T. CIURESCU, O. CIOBANU, L. STRAT, I. SANDU, „*Fleximetru electromecanic*”, în **INVENTICA**, Ed Institutului Politehnic "Gh.Asachi" Iasi, 1988, p.90-92;
86. T. CIURESCU, L. GROLL, O. CIOBANU, L. STRAT, I. SANDU, „*Înclinometru inductiv*”, în **INVENTICA**, Ed Institutului Politehnic "Gh.Asachi" Iasi, 1988, p.92-94;
87. T. CIURESCU, S. TANISLAV, E. VEȚEANU, O. CIOBANU, I. SANDU, „*Instalație pentru măsurarea și înregistrarea perametrilor unei căi rutiere*”, în **INVENTICA**, Ed Institutului Politehnic "Gh.Asachi" Iasi, 1988, p.94-96;
88. V. COJOCARU, G. COMAN, I. SANDU, S. STANCIU, „*Procedeu de obținere a fontelor cu proprietăți superioare*”, în **INVENTICA**, Ed Institutului Politehnic "Gh.Asachi" Iasi, 1988, p.176-179;
89. N. CALU, I. SANDU, I. BERDAN, M. LUPUȚIU, L. POPA, „*Procedeu de recuperare a manganului ca MnO<sub>2</sub> activ din baterii galvanice Leclanche uzate*”, în **INVENTICA**, Ed Institutului Politehnic "Gh.Asachi" Iasi, 1988, p.214-219;
90. I. SANDU, N. CALU, T. CIURESCU, I. BERDAN, „*Metodă și dispozitiv pentru determinarea activității electrochimice a dioxidului de mangan*”, în **INVENTICA**, Ed Institutului Politehnic "Gh.Asachi" Iasi, 1988, p.221-232;
91. N. CALU, I. SANDU, „*Permutții din slamul rosu. I. Apa zeolitică*”, în **ZEOLITII IN TEHNOLOGIA MODERNA (II)**, , Ed. Inst.Pol. "Gh.Asachi" Iasi,, 1988, p.326-334;
92. I. SANDU, M. CALU, „*Procesul inventarii in chimie*”, în **INVENTICA**, Ed Institutului Politehnic "Gh.Asachi" Iasi, 1987, p.69-86;
93. STĂNILĂ, T. SILION, A. STĂNILĂ, I. SANDU, „*Fundație directă pe cheson*”, în **INVENTICA**, Ed Institutului Politehnic "Gh.Asachi" Iasi, 1987, p.320-324;
94. STĂNILĂ, A. STĂNILĂ, I. SANDU, „*Instalație și procedeu pentru realizarea unor console laterale la fundațiile pe chesoane*”, în **INVENTICA**, Ed Institutului Politehnic "Gh.Asachi" Iasi, 1987, p.324-328;
95. OPREA, I. SANDU, N. CALU, A. CONSTANTINESCU, M. LUPUTIU, „*Procedeu de imobilizare a electrolitului din elemente galvanice uscate - Leclanche*”, în **INVENTICA**, Ed Institutului Politehnic "Gh.Asachi" Iasi, 1987, p.328-330;
96. I. SANDU, ST. IVĂȘCAN, A. STĂNILĂ, I. BALASANIAN, „*Procedeu de obținere a sărurilor metalelor alcaline și alcalino-pământoase ca produse industriale neaglomerabile*”, în **INVENTICA**, Ed Institutului Politehnic "Gh.Asachi" Iasi, 1987, p.330-334;
97. I. SANDU, I. BERDAN, T. CIURESCU, „*Procedeu și dispozitiv de realizare a electrozilor din clorură de argint pentru baterii activabile cu apă*”, în **INVENTICA**, Ed Institutului Politehnic "Gh.Asachi" Iasi, 1987, p.358-364;
98. I. SANDU, M. CALU, „*Inventica in chimie*”, în **INVENTICA**, Ed. Inst. Politehnic Iasi, 1986, p. 204-208;
99. N. CALU, I. BERDAN, I. SANDU, „*Numerele magice si arheologia elementelor supragrele,*”, în **FENOMEN-NATURA-SOCIETATE**, Ed. Societății Medicilor și Naturaliștilor, filiala Iași, vol.23, 1986, p.98-102;
100. I. SANDU, Tr. VIDRASCU, „*Contribuții romanesti la dezvoltarea pilelor electrochimice*”, în **FENOMEN-NATURA-SOCIETATE**, Ed. Societății Medicilor și Naturaliștilor, filiala Iași, vol.23, 1986, p.127-132;
101. I. SANDU, Tr. VIDRASCU, „*Dezvoltarea polimerilor conductori*”, în **FENOMEN-NATURA-SOCIETATE**, Ed. Societății Medicilor și Naturaliștilor, filiala Iași, vol.23, 1986, p.150-155;
102. I. SANDU, N.CALU, M.LUPUTIU, „*Aspecte din istoria pilelor galvanice*”, în **FENOMEN-NATURA-SOCIETATE**, Ed. Societății Medicilor și Naturaliștilor, filiala Iași, vol.23, 1986, p.136-144;
103. I. SANDU, N. CALU, D. BĂLBĂ, I. BERDAN, „*Tratarea apelor reziduale de la fabricarea cauciucului izoprenic si valorificarea unor subproduse*”, în **TRATAREA SI EPURAREA APELOR**, Ed. Institutului Politehnic "Tr.Vuia" Timișoara, 1985, p. 249-256;
104. N. CALU, I. SANDU, I. BERDAN, M. LUPUȚIU, „*Structure et le mecanisme de decharge des melanges cathodiques à base de MnO<sub>2</sub> actif*”, în **ELECTROCHIMIE APLICATĂ**, Ed Institutului Politehnic Cluj-Napoca, 1985, p. 323-334;
105. I. SANDU, N. CALU, St. IVASCAN, I. BERDAN, „*Etude sur le comportement cathodique des systemes redox sumatifs MnO<sub>2</sub>-RNO<sub>2</sub>*”, în **ELECTROCHIMIE APLICATĂ**, Ed.Institutului Politehnic Cluj-Napoca, 1985, p. 317-326;
106. SANDU, V. PARASCHIVESCU, D. GÂNJU, „*Studii privind stocarea subterană prin concentrare a apelor reziduale de la fabricarea cauciucului izopropenic*”, în **POLUARE ACCIDENTALĂ ȘI BIOLOGICĂ**, Ed. Medicală Bacău, (1984), p. 302-312;
107. V. PARASCHIVESCU, I. SANDU, „*Valorificarea unor deșeuri în vederea decolorării unor ape reziduale*”, în **POLUAREA ACCIDENTALĂ ȘI BIOLOGICĂ**, Ed. Medicală Bacău, 1984, p. 87-92;
108. GÂNJU, P. ONU, I. SANDU, „*Epurarea apelor reziduale prin absorbție pe zeoliți sintetici (I). Absorbția aminelor*”, în **POLUAREA ACCIDENTALĂ ȘI BIOLOGICĂ**, Ed. Medicală Bacău, 1984, p.76-82;
109. GÂNJU, P. ONU, I. SANDU, „*Epurarea apelor reziduale prin absorbție pe zeoliți sintetici (II). Absorbția acizilor carboxilici*”, în **POLUAREA ACCIDENTALĂ ȘI BIOLOGICĂ**, Ed. Medicală, Bacău 1984, p. 82-87;
110. I. SANDU, N. CALU, I. BERDAN, „*Contribuții românești la dezvoltarea pilelor electrice (I). Pilele Carpen*”, în **ISTORIA ȘI FILOZOFIA ȘTIINȚEI**, Ed. Institutului Politehnic "Gh.Asachi" Iași, 1984, p. 315-321;
111. NEAGU, I. SANDU, R. NEAGU, „*Cercetări privind descompunerea apei*”, în **ȘTIINȚA, TEHNICA ȘI CIVILIZAȚIA UMANĂ ÎN PERSPECTIVA VIITORULUI**, Ed. Institutului Politehnic „Gh. ASACHI” Iași, 1984, p 65-71;

112. N. CALU, E. NEAGU, I. SANDU, I BERDAN, „Cercetări privind descompunerea apei. II. Termoliza apei”, în **ȘTIINȚA, TEHNICA ȘI CIVILIZAȚIA UMANĂ ÎN PERSPECTIVA VIITORULUI**, Ed. Institutului Politehnic „Gh. ASACHI” Iași, 1984, p. 71-79;
113. N. CALU, I. SANDU, I. BERDAN, L. GEORGESCU, „Perspective privind stocarea hidrogenului”, în **ȘTIINȚA, TEHNICA ȘI CIVILIZAȚIA UMANĂ ÎN PERSPECTIVA VIITORULUI**, Ed. Institutului Politehnic „Gh. ASACHI” Iași, 1984, p. 79-86;
114. BERDAN, N. CALU, I. SANDU, „Perspective în dezvoltarea și utilizarea supraconductorilor ionici solizi”, în **ȘTIINȚA, TEHNICA ȘI CIVILIZAȚIA UMANĂ ÎN PERSPECTIVA VIITORULUI**, Ed. Institutului Politehnic „Gh. ASACHI” Iași, 1984, p. 223-232;
115. I. SANDU, T.VIDRAȘCU, S. PETRESCU, G. CĂLĂTORU, „Utilizarea energiei solare în sisteme criogenice”, în **ȘTIINȚA, TEHNICA ȘI CIVILIZAȚIA UMANĂ ÎN PERSPECTIVA VIITORULUI**, Ed. Institutului Politehnic „Gh. ASACHI” Iași, 1984, p. 87-95;
116. I. SANDU, N. CALU, I. BERDAN, C. STANCIU, „Realizări și perspective în tehnologia convertizoarelor electrochimice”, în **ȘTIINȚA, TEHNICA ȘI CIVILIZAȚIA UMANĂ ÎN PERSPECTIVA VIITORULUI**, Ed. Institutului Politehnic „Gh. ASACHI” Iași, 1984, p. 207-215;
117. BERDAN, N. CALU, I. SANDU, „Unele aspecte privind metalo-terapia cancerului”, în **ȘTIINȚA, TEHNICA ȘI CIVILIZAȚIA UMANĂ ÎN PERSPECTIVA VIITORULUI**, Ed. Institutului Politehnic „Gh. ASACHI” Iași, 1984, p. 241-258;
118. I. SANDU, V. PISSEA, T. STURZU, „Polimeri conductori și semiconductori”, în **ȘTIINȚA, TEHNICA ȘI CIVILIZAȚIA UMANĂ ÎN PERSPECTIVA VIITORULUI**, Ed. Institutului Politehnic „Gh. ASACHI” Iași, 1984, p 215-241;
119. T. VIDRAȘCU, I. SANDU, G. CĂLĂTORU, „Concepții și previziuni japoneze în dezvoltarea științei și tehnicii”, în **ȘTIINȚA, TEHNICA ȘI CIVILIZAȚIA UMANĂ ÎN PERSPECTIVA VIITORULUI**, Ed. Institutului Politehnic „Gh. ASACHI” Iași, 1984, p 306-314;
120. N. CALU, P. ONU, I. SANDU, D. GÂNJU, S. PETRESCU, „Utilizarea zeoliților sintetici în baterii galvanice (I). Studiul parametrilor de descărcare ai celulei”, în **ZEOLIȚI ÎN TEHNOLOGIA MODERNĂ**, Ed. Institutului Politehnic "Gh.Asachi" Iași, 1983, p.202-210;
121. SANDU, N. CALU, P. ONU, I. BERDAN, D. GANJU, „Utilizarea zeoliților sintetici în baterii galvanice (II). Studiul comportării catodice”, în **ZEOLIȚI ÎN TEHNOLOGIA MODERNĂ**, Rotaprint Institutul Politehnic Iași, 1983 p. 210-218;
122. S. PETRESCU, I. SANDU, St. MARTIN, „Contribuții la cercetarea echilibrului procesului de obținere a sulfatului de sodiu din sulfat de amoniu rezultat la fabricarea caprolactamei”, în **INGINERIA PROCESELOR CHIMICE**, Ed. Institutului Politehnic "Gh.Asachi" Iași, 1983, p.382-388;
123. C. CALISTRU, S. PETRESCU, GH.MIHĂILĂ, I. SANDU, „Contribuții la cercetarea proceselor care duc la formarea clorurii de amoniu în fază gazoasă”, în **INGINERIA PROCESELOR CHIMICE**, Ed. Institutului Politehnic "Gh.Asachi" Iași, 1983, p.407-412;
124. N.CALU, I. SANDU, M.CALU, I. BERDAN, Adriana BÂRSĂNESCU, „Quelques aspects des processus physico-chimiques de la preparation de l'hydrogène à partir de l'eau”, în **SURSE NECONVENȚIONALE DE ENERGIE**, Ed. Institutului Politehnic "Gh.Asachi" Iași, vol.III, 1982, p.339-344;
125. N.CALU, I. SANDU, I. BERDAN, Adriana BÂRSĂNESCU, M. PĂLIE, „Générateurs decourant à base de complexes à transfert de charge”, în **SURSE NECONVENȚIONALE DE ENERGIE**, Ed. Institutului Politehnic "Gh.Asachi" Iași, vol.III, 1982, p.345-352;
126. N. CALU, I. SANDU, I. BERDAN, „Perspectives de développement des piles primaires au lithium”, în **SURSE NECONVENȚIONALE DE ENERGIE**, Ed. Institutului Politehnic "Gh.Asachi" Iași, vol.III, 1982, p.319-326;
127. N.CALU, I. BĂLĂNESCU, I. SANDU, „Obținerea și caracterizarea dioxodului de mangan activ (I)”, în **CONTRIBUȚII ȘTIINȚIFICE ÎN CHIMIE**, Ed. Dacia, Cluj-Napoca, 1982, p.12-18;
128. N. CALU, I. SANDU, M LUPUȚIU, I. BERDAN, „Aspecte ale evoluției surselor de curent chimice”, în **ISTORIA ȘI FILOZOFIA ȘTIINȚEI**, Ed. Univ. Babeș-Bolyai, Cluj-Napoca, 1982, p.167-172;

J. Patents (136), in Romania (114) and abroad (22), ISI Impact Factor = 11,946; Author Factor = 2,492/

59 prim autor

1. V. VASILACHE, A.V. SANDU, C. FILOTE, I. SANDU, *Process for uniform bright deposition of nickel on copper surfaces*, , Patent RO127202 (A2)/2012.30.03, OSIM File RO000848/17.09.2010, Owner the “Stefan ce Mare University of Suceava;
2. B.A. HAGIU, I. SANDU, T. LUPASCU, V. VASILACHE, V. TURA, I. MANGALAGIU, A.V. SANDU, V. GONCHYAR, *Process for the obtaining of an injection oil silver nanodispersion*, Patent MD4106(B1)/2011-04-30 (AGEPI File a MD20100000134 20101203), Owner the Institute for Chemistry of the Academy R. Moldova of Kisinew, 5 ref.(B.A. HAGIU, I. SANDU, T. LUPASCU, V. VASILACHE, V. TURA, I. MANGALAGIU, A.V. SANDU, V. GONCIAR, *Process for the obtaining of an injection oil silver nanodispersion*, Patent MD4106(B1)/2011-11-30 (AGEPI File a 2009 0115/2009.11.05), Owner the Institute for Chemistry of the Academy R. Moldova of Kisinew, 3 ref.);
3. I. SANDU, T. LUPASCU, I.C.A. SANDU, V. VASILACHE, A.V. SANDU, V. BOTAN, *Method for reproducing the picture with reconstructed image*, Patent MD469(Y)/2012-01-31 (AGEPI File a MDS20110079 20100730), Owner the Institute for Chemistry of the Academy R. Moldova of Kisinew, 2 ref.;
4. I. SANDU, T. LUPASCU, I.C.A. SANDU, V. VASILACHE, A.V. SANDU, V. BOTAN, *Procedeu de reintegrare cromatică a zonelor lacunare ale picturilor vechi*, Patent MD409Z/2012.03.31(AGEPI File a MDS20100132 20100730/2010 0132/2010-30-07), Owner the Institute for Chemistry of the Academy R. Moldova of Kisinew, 3 ref.;
5. I. SANDU, I.C.A. SANDU, V. VASILACHE, A.V. SANDU, I.G. SANDU, *Procedeu de reintegrare cromatică a picturilor*, Patent RO127086 (A2)/2012.28.02, OSIM File RO000718/09.08.2010, Owner the „Al.I.Cuza” University of Iasi;
6. B.A. HAGIU, A.V. SANDU, V. TURA, I.G. SANDU, O.C. MUNGIU, I. SANDU, *Powder Having Hemostatic, Antiseptic, Wound-Healing and Regenerative Capacities*, Patent RO126087 (B1)/2011-11-30, OSIM File RO20090000685 20090907, Owner the Romanian Inventors Forum;
7. I.C.A. SANDU, V. VASILACHE, I. SANDU, N.VRINCEANU, I.G. SANDU, A.C.CIOCAN, A.V. SANDU, *Process for actively preserving old water-soaked wood, involves submerging the wood into petroleum-based organic solutions containing specified amounts of tannin and propolis*, Patent RO126102-A2/2011-03-30 (OSIM File RO000684/07.09.2009, Owner the „Al.I.Cuza” University of Iasi);
8. B.A. HAGIU, V. TURA, T. BALAU-MINDRU, I. SANDU, I. BALAU-MINDRU, A.V. SANDU, *Composite Plaster with Nanofibres Functionalized with Noble Metals*, Patent RO125083 (B1)/2011-11-30 OSIM File RO20080000437 20080610 , Owner the Romanian Inventors Forum;

9. **I. SANDU**, T. LUPASCU, C. LUCA, V. VASILACHE, M. HAYASHI, F.D. VLAD, I.G. SANDU, *Insectofungicidal Composition as an Alcohol Solution and Process for Preparing The Same*, **Patent RO123353 (B1)/2011-10-28**, OSIM File RO20080000174 20080304, Owner the „Al.I.Cuza” University of Iasi;
10. B.A. HAGIU, A.V. SANDU, T. LUPAȘCU, M. CHIRAZI, I. MANGALAGIU, **I. SANDU**, M. CIOBANU, V. VASILACHE, *Powder with haemostatic and regenerative properties (variants) and process for the production thereof*, **Patent MD4117(13)B1/10.12.2010** (AGEPI File a 2010 0134/2010.12.03, Owner the Institute for Chemistry of the Academy R. Moldava of Kisinev, 5 ref.;
11. I.C.A. SANDU, V. **VASILACHE**, **I. SANDU**, N. **VRINCEANU**, I.G. SANDU., A.C. **CIOCAN**, A.V. **SANDU**, *Process for actively preserving old water-soaked wood, involves submerging the wood into petroleum-based organic solutions containing specified amounts of tannin and propolis*, **Patent RO126102-A2/2011-03-30**, OSIM File RO000684/07.09.2009, Owner the „Al.I.Cuza” University of Iasi;
12. M. DEBELI, A.V. SANDU, **I. SANDU**, *Counter with integrated system of analyzing composition and caloric capacity of gaseous fuel, comprises integrated system with two subassemblies mounted outside container*, **RO125052-A0/2011**, OSIM File RO000926/25.10.2008, Owner the Romanian Inventors Forum;
13. **I. SANDU**, C. STIRBU, M. CHIRAZI, C. STIRBU, A.V. SANDU, *Artificial Halochamber with Multiple Users*, **Patent RO126285-A2/30.05.2011**, OSIM FILE A200900899/05.11.2009, Owner the Romanian Inventors Form;
14. **I. SANDU**, C. ȘTIRBU, C. ȘTIRBU, A.V. SANDU, *Artificial Halochamber with Multiple Users*, **Patent RO126284-A2/30.05.2011**, OSIM FILE A200900898/05.11.2009, Owner the Romanian Inventors Form;
15. **I. SANDU**, M. CANACHE, I.G. SANDU, A.V. SANDU, V. VASILACHE, *Artificial Halochamber with Multiple Users*, **Patent RO126283-A2/30.05.2011**, OSIM FILE A200900897/05.11.2009, Owner the Romanian Inventors Form;
16. **I. SANDU**, C. STIRBU, T. LUPAȘCU, M. CHIRAZI, C. STIRBU, A.V. SANDU, *Artificial Surface Halochamber*, **Patent MD4089(B1)/2011.01.31**, AGEPI File a 2009 0120/2009.11.18, Owner the Institute for Chemistry of the Academy R. Moldava of Kisinev, 4 ref.;
17. **I. SANDU**, M. CANACHE, T. LUPAȘCU, I.G. SANDU, A.V. SANDU, V. VASILACHE, *Surface Artificial Halochamber*, **Patent MD4040(B1)/2010. 05.31**, AGEPI File a20090115/2009.05.11. Owner the Institute for Chemistry of the Academy R. Moldava of Kisinev, 4 ref.;
18. **I. SANDU**, C. STIRBU, T. LUPAȘCU, C. STIRBU, A.V. SANDU, *Surface Artificial Microsalt Mine*, **Patent MD4039(B1)/2010.05.31** (AGEPI File a20090115/2009.05.11. Owner the Institute for Chemistry of the Academy R. Moldava of Kisinev), 4 ref.;
19. **I. SANDU**, C. BEJENARIU, I.G. SANDU, A.G. BEJINARIU, C. BACIU, A.V. SANDU, M.G. BEJINARIU, S.L. TOMA, *Process for the water detoxification by crystalline phosphating results*, **Patent RO125597-A2/30.07.2010**, OSIM File A/01024/29.12.2008, Owner the „Gheorghe Asachi” Technical University of Iasi;
20. C. BEJINARIU, **I. SANDU**, V. VASILACHE, I.G. SANDU, M.G. BEJINARIU, A.V. SANDU, M. SOHACIU, V. VASILACHE, *Process for the micro-crystalline phosphate-coating of iron-based metal pieces*, **Patent RO125457-A2/28.05.2010**, OSIM File A/01023/29.12.2008, Owner the „Gheorghe Asachi” Technical University of Iasi, 12 ref.;
21. C. BEJINARIU, **I. SANDU**, C. PREDESCU, V. VASILACHE, C. MUNTEANU, A.V. SANDU, V. VASILACHE, I.G. SANDU, *Process for the crystalline lubricating phosphate-coating of iron-based metal pieces*, **Patent RO125456-A2/28.05.2010**, OSIM File A/01022/29.12.2008, Owner the „Gheorghe Asachi” Technical University of Iasi, 12 ref.;
22. M. DEBELI, A.V. SANDU, **I. SANDU**, *Extensible way for pouring liquids from containers disposable*, **Patent RO125291-A2/30.03.2010**, OSIM FILE A200800191/11.03.2008, Owner the Romanian Inventors Form;
23. M. DEBELI, A.V. SANDU, **I. SANDU**, *Lighting and music customization of menus*, **Patent RO125443-A2/28.05.2010**, OSIM File 200800190/11.03.2008, Owner the Romanian Inventors Form;
24. **I. SANDU**, T. LUPAȘCU, I.C.A. SANDU, V. VASILACHE, I.G. SANDU, V. BOȚAN, A.V. SANDU, A.C. CIOCAN, *Process for Insectofungicization and Fireproofing of Age-old Artworks*, **Patent MD4018(G2)/2010.02.26**, Dosar AGEPI a 2008 0249/2008.09.30, Owner the Institute for Chemistry of the Academy R. Moldava of Kisinev), 14 ref.;
25. M. CIOBANU, **I. SANDU**, T. LUPAȘCU, V. BOȚAN, A. NISTOR, *Process for Sewage Water Purification from Methylene Blue*, **Patent MD4008(C2)/2010.10.31**, Dosar AGEPI a 2009 0069/2009.07.01;
26. I.G. SANDU, **I. SANDU**, I. NEACSU, S. STOLERIU, I.C.A. SANDU, A.V. SANDU, *Process for the repatination of areas restored by surface passivation of old bronze and brass pieces*, **Patent RO123077 (B1)/30.09.2010** (Dosar OSIM A00437/10.05.2005);
27. **I. SANDU**, T. LUPAȘCU, I.C.A. SANDU, V. VASILACHE, I.G. SANDU, V. BOȚAN, A.V. SANDU, A.C. CIOCAN, *Process for insectofungicization and hydrophobization of age-old wood articles of art*, **Patent MD3966(B1)/2009.09.30**, (AGEPI File a2008 0051/2009/a20080249/30.09.2008, Owner the Institute for Chemistry of the Academy R. Moldava of Kisinev), 14 ref.;
28. V. BOTAN, **I. SANDU**, T. LUPASCU, *Procedure for obtaining of carbonic sorbent with nitrogen heteroatoms*, **Patent MD3910(F1)/2009.05.31**, (AGEPI File a2008 0248/30.09.2008, Owner the Institute for Chemistry of the Academy R. Moldava of Kisinev), 4 ref.;
29. I.G. SANDU, A. DIMA, **I. SANDU**, L. ROIBU, I.C.A. SANDU, L.O. ROIBU, A.V. SANDU, *Process for Obtaining Artistic Patina by Chemical Passivation of Iron Parts Surfaces*, **Patent RO122303/30.03.2009** (Hot. nr. 3/254 din 30.11.2009, Dosar OSIM A00138/17.02.2004);
30. I.G. SANDU, A. DIMA, **I. SANDU**, C. IOAN, I.C.A. SANDU, M. VASILACHE, A.V. SANDU, *Organic Basic Solution for Fixing and Consolidating some Frescoes and Old Ornamental Elements and Process for Obtaining the Same*, **Patent RO122135 B1/30.01.2009** (Hot. nr. 3/242/30.10.2008, Dosar OSIM 0137/17.02.2004);
31. C. PASCU, **I. SANDU**, G. CIOBANU, I.G. SANDU, V. VASILE, O. CIOBANU, A.V. SANDU, A. PASCU, *Method and Device for Determining Saline Aerosols "in situ"*, **Patent RO122232/27.03.2009**, (Dosar OSIM A00944/18.11.2003, Owner the S.C. TEHNOBIONIC S.A. Buzău);
32. **I. SANDU**, I., T. LUPASCU, I.C.A. SANDU, C. LUCA, V. VASILACHE, I.G. SANDU, M. HAYASHI, A.V. SANDU, M. CIOBANU, *Method for determining the normal water equilibrium variation domain*, **Patent MD3713(G2)/2009.05.31** (AGEPI File a 2008 0135/2008.05.19, Owner the Institute for Chemistry of the Academy R. Moldava of Kisinev);
33. **I. SANDU**, T. LUPASCU, C. LUCA, V. VASILACHE, M. HAYASHI, F.D.VLAD, I.G. SANDU, *Ecologic organic solution for the insectofungic treatment of the old wood in artefacts*, **Patent MD3681(G2)/2009.04.30**, (AGEPI File a 2008-0050/19.02.2008, Owner the Institute for Chemistry of the Academy R. Moldava of Kisinev);

34. I.C.A. SANDU, **I. SANDU**, T. BOUNEGRU, I.G. SANDU, A.V. SANDU, *Method of dating the old cellulose textile materials*, Patent **MD3325(G2)/31.05.2007** (AGEPI File a 2006-0190/17.07.2006, Owner the State University of Kisinev);
35. **I. SANDU**, T. BOUNEGRU, I.G. SANDU, A.ALEXANDRU, I.C.A. SANDU, F. DIACONESCU, A.V. SANDU, *Process for obtaining a green, opaque, photo- and thermoresistant pigment*, Patent **MD3296(G2)/30.04.2007** (AGEPI File a2006-0178/21.06.2006, Owner the State University of Kisinev);
36. I.C.A. SANDU, **I. SANDU**, I.G. SANDU, A.V. SANDU, *Method for the determination of the age of textile cellulosed supports*, Patent **RO121151/30.10.2006**, (OSIM file A00989/2001, Owners the authors);
37. P.GRIEROSU, **I. SANDU**, D.COVATARIU, I.G. SANDU, D. GRIEROSU, A.V. SANDU, G. GRIEROSU, I.C.A. SANDU, *Fungicidal and insecticidal fireproof product for wood and process for applying the same*, Patent **RO120975/30.10.2006** (OSIM File; nr.RO2001000220/2001 02 27, Owner the Authors);
38. AI. STANCIU, **I. SANDU**, I.G. SANDU, C. STANCIU, *Process for purifying used sewage and industrial water*, Patent **RO120838/30.08.2006** (OSIM File nr. RO20010000223/2001.10.27, Owner the Authors);
39. AI. STANCIU, **I. SANDU**, I.G. SANDU, C. STANCIU, *Process for purifying used sewage and industrial water*, Patent **RO120837/30.08.2006** (OSIM File nr. RO20010000222/2001.10.27, Owner the Authors);
40. AI. STANCIU, **I. SANDU**, I.G. SANDU, C. STANCIU, *Process for purifying used sewage and industrial water*, Patent **RO120836/30.08.2006** (OSIM File nr. RO20010000221/2001.10.27, Owner the Authors);
41. **I. SANDU**, C. SAPARIUC, I.G. SANDU, T. BOUNEGRU, A.V. SANDU, *Mini egg incubator of domestic use*, Patent **MD3197(G2)/05.12.2006** (AGEPI File A0189/04.07.2005, Owner the State University of Kisinev);
42. I.G. SANDU, **I. SANDU**, T. BOUNEGRU, I.C.A. SANDU, A.V. SANDU, *Dispersion on base of calcium hydroxide for fixation and strengthening of frescoes, finishes and old ornamental elements of marble, concrete and mortar*, Patent **MD3052(G2)/04.06.2006** (AGEPI File A0188/04.07.2005, Owner the State University of Kisinev) (C.A. P.494328z);
43. T. BOUNEGRU, **I. SANDU**, N. BARBA, V. BOTAN, *Process for sulphurous anhydride removal from the winy distillate*, Patent **MD3014(G2)/31.03.2006** (AGEPI File A0169/16.06.2005, Owner the State University of Kisinev) (C. A. P. 396420d);
44. I.G. SANDU, **I. SANDU**, T. BOUNEGRU, I.C.A. SANDU, A.V. SANDU, *Process for repatination of old restored bronze and brass articles*, Patent **MD3008(G2)/31.03.2006** (AGEPI File A0183/27.06.2005, Owner the State University of Kisinev) (C.A. P. 491487g);
45. T. BOUNEGRU, **I. SANDU**, *Installation for neutralization of wine-making by-products containing Berlin blue*, Patent **MD2954(G2)/31.01.2006** (AGEPI File A0170/16.06.2005, Owner the State University of Kisinev);
46. **I. SANDU**, T. BOUNEGRU, I. G. SANDU, G. ROMAN, A.V. SANDU, *Process for Neutralization of Ferrocyanide Slurry Formed at the Wine Deferrization*, Patent **MD2741(G2)/30.04.2005** (AGEPI File A0066/26.03.2004, Owner the State University of Kisinev) (C.A. P. 88258k);
47. **I. SANDU**, S. GĂLDĂU, Gh. MARCU, I.C.A. SANDU, C. MOLDOVAN, I. G. SANDU, *Process for Preparing a Plasticizing Additive for Concrete and Mortar*, Patent **RO118583/Hot.3/195/28.05.2003**, (OSIM File 96-001068, Owner the S.C.TIPO S.R.L. Iași);
48. V. MORARU, **I. SANDU**, C. MORARU, I.C.A. SANDU, I. G. SANDU, *Process for Manufacturing Polychrome Tesserae and Use Thereof for Producing Wall Mosaic*, Patent **RO118415/3/155/28.03.2003** (OSIM File nr. A00988/2001, Owner the Authors);
49. Gh. NICA, **I. SANDU**, I. C. A. SANDU, *Binder Composition for the Agglomeration of Powdery Products*, Patent **RO 117702/28.06.2002**, (OSIM File 95-00574/23.03.1995, Owner the Authors);
50. **I. SANDU**, V. DANCIU, I.C.A. SANDU, C. TEȘU, *Process for Making a Solid Fuel*, Patent **RO117183/30.11.2001** (OSIM File nr. 96 - 00575/23.04.1996, Owner the Mitropolitane Moldavia and Bucovine);
51. Gh. DONCEAN, P. LEONTE, **I. SANDU**, *Magnetochemical Reactor*, Patent **RO116786/2001**, (OSIM File 94-000115, Owner the Authors);
52. G. GUDUMAC, A.GULEA, V. RUDIC, **I. SANDU**, V. CREȚU, *Spectrophotometric Method for Selenium Determination*, Patent **RO116128 B/30.10.2000** (OSIM File 92 - 000879/26.06.1992, Owner the Authors);
53. Gh. DONCEAN, I. LAZĂR, **I. SANDU**, M. STROESCU, P. LEONTE, *Installation for Thermal Treatment of Materials*, Patent **RO115653 B/28.04. 2000** (OSIM File 94 - 00116/27.01.1994, Owner the Authors);
54. **I. SANDU**, N. CALU, I. BERDAN, R. SMOCOT, A. BIALUS, V. VĂSCU, AI. STĂNILĂ, *Process and Installation for Producing Drinking Water*, Patent **RO114318/30.03.1999** (OSIM File nr. 146543/03.01.1991, Owner the Inst.Politech.Iași) cited according to DERWENT INNOVATION INDEX - ISI THOMPSON by BOL.SOC.ESP.CERAM. V. (ISSN 0366-3175), 43 [1] (2004), p. 75-79, ref. nr. 3: ISI Factor = 0,684, Author Factor = 0,096;
55. **I. SANDU**, M. LUPUȚIU, C. FLOREA, V. PALIHOVICI, L. POPA, I. G. SANDU, *Process for Making Cathodes for Water-Activated Galvanic Elements in the Mg/AgCl System*, Patent **RO114205/30.12.1998** (OSIM File 93-00711/24.05.1993 , Owner the S.C. ELECTROBANAT Timișoara);
56. **I. SANDU**, V. VASILACHE, I.C.A. SANDU, *Organic Dispersion for Oiling and Disinfecting Parchment Bases*, Patent **RO113746/1998**, (OSIM File 95-01244/30.06.1995, Owner the Mitropolitane Research Center TABOR Iași);
57. W.WEISS, A. STĂNILĂ, I.ALECU, **I. SANDU**, *Process for Making Cellular Concrete*, Patent **RO112843/30.01.1998** (OSIM File 147515/08.05.1991, Owner the of S.C.Tehnic Hobby S.A., Iași);
58. D.I. CIOBOTEA, **I. SANDU**, G. ȚĂPUC, V. DANCIU, C. TEȘU, *Process for Preparing Incense*, Patent **RO112741/1997** (OSIM File nr. 92-01291/08.12.1992, Owner the Mitropolitane Research Center TABOR Iași), cited according to DERWENT INNOVATION INDEX - ISI THOMPSON by STANLEY, V.E.: 4 x 0,500 = 2,000, Author Factor = 0,400;
59. A. GULEA, V. RUDIC, **I. SANDU**, *Method of Determining Dry Spiruline Biomass*, Patent **RO112559/31.10.1997** (OSIM File nr. 92-0878, Owner The Polytechnical Institute Iași);
60. **I. SANDU**, P. ARHIRE., C. TICU, I. MANGALAGIU, I. CIOCIRLIE, *„Putty for Furniture”*, Patent **RO112287/30.06.1997** (OSIM File 146899/11.02.1991, Owner The Polytechnical Institute Iași);
61. I.C.A. SANDU, **I. SANDU**, G. NICA, I. G. SANDU, *Organic Solution for the Preservation and Anti Septization of the Supports Which are Made of Old Polychrome Wood*, Patent **RO111667/1997** (OSIM File nr.950576/1995, Owner the Mitropolitane Research Center TABOR Iași);
62. **I. SANDU**, I. RUSU, B. PLAHTEANU, V. PALIHOVICI, C. MUNTEANU, *„In Pellicles Printing Alloys Preparation Process”* , Patent **RO111474/31.10.1996** (OSIM File 148754/18.11.1991, Owner The Polytechnical Institute Iași);



63. C. FERARU, **I. SANDU**, G. FERARU, E.M. SANDU, *Cleaning Powder (Dust)*, **Patent RO110958/30.05.1996** (OSIM File 147091/11.03.1991, Owner The Polytechnical Institute Iași);
64. A. GULEA, V. RUDIC, **I. SANDU**, *Procedure for obtining active gamma - MnO<sub>2</sub>*, **Patent MD202 G2/28.04.1995**, (Republica Moldova, AGEPI File 930.035/05.05.1993, Owner The State University of Chișinău);
65. **I. SANDU**, S. GÂLDĂU, G. DONCEAN, I.C.A. SANDU, *Super Plastifying Composition*, **Patent RO110467/29.12.1995** (OSIM File 94-00461/22.3.1994, Owner SC TIPO SRL Iași);
66. Gh. DONCEAN, S. GÂLDĂU, I. LAZĂR, **I. SANDU**, *Electric Conductive Fluids Purification and Separation Plant*, **Patent RO110462/29.12.1995**, (OSIM File nr.94-01075/22.06.1994, Owner SC TIPO SRL Iași);
67. S. NEMȚOI, N. VARNISCHI, Gh. NEMȚOI, **I. SANDU**, C. FERARU, *Preparation Process for a Detergent Powder Which is High Dispersive*, **Patent RO110347/30.11.1995** (OSIM File 147298/10.04.1991, Owner The Polytechnical Institute Iași); cited according to DERWENT CITATION INDEX - ISI THOMPSON by JP LAB PVT LTD: **3 x 0,500 = 1,500, Author Factor = 0,300**;
68. **I. SANDU**, C. MĂȚĂ, D. COZMA, V. POPESCU, I. RUSU, *Insecticide, Biodegradable Composition*, **Patent RO110.111/29.09.1995**, (OSIM File nr. 149.131/14.01.1992, Owner The Polytechnical Institute Iași);
69. **I. SANDU**, C. FERARU, E. M. SANDU, G. DAVID, *Preparation Process for the Core-Soap Through the Superior Working of the Fat Residues, from the Used Waters, Which Result from the Vegetal Oil Preparation*, **Patent RO109.950/30.06.1995**, (OSIM File nr. 146.900/11.02.1991, Owner The UNIREA Factory Iași);
70. V. SĂHLEANU, **I. SANDU**, D. BEJAN, I. MANGALAGIU, *Crystals or Watery Solutions, Concentrates of Manganese Nitrate Preparation Process*, **Patent RO109728/28.04.1995**, (OSIM File nr. 146.720/14.01.1991, Owner The Polytechnical Institute Iași);
71. **I. SANDU**, E.M. SANDU, I.C.A. SANDU, *Cleaning and Preserving Process for Old Wood Objects*, **Patent RO108326/31.03.1994** (OSIM File nr. 146999/27.02.1991 Owner "Al.I.Cuza" University of Iași) (*Chem. Abst. 2000, 132 (24), pp.666m*);
72. N. VERDEȘ, **I. SANDU**, I. MANGALAGIU, *Disinfection Process for Silos Which are in Loaded State or after Emptying*, **Patent RO108216/28.02.1994** (OSIM File nr. 146646/03.01.1991, Owner The Polytechnical Institute Iași);
73. **I. SANDU**, A. CECAL, A. CAPRA, C. CREȚU, I. MANGALAGIU, *Multi Component Powder for Parts Superficial Alloying, During the Casting Process*, **Patent RO108161/31.01.1994** (OSIM File nr. 145181/28.05.1990, Owner The Polytechnic Institute Iași);
74. **I. SANDU**, *Organic Cathodic Mixture for Salt Systems Activating Batteries*, **Patent RO108113/31.12.1993**, (OSIM File nr. 149.132/14.01.1992 Owner The Polytechnic Institute Iași);
75. **I. SANDU**, A. GULEA, I. CIOCĂRLIE, S. PANAITE, I.C.A. SANDU, *Cathode Making Process for Batteries Which are Activated with Water*, **Patent RO108112/31.12.1993**, (OSIM File nr. 148.128/01.08.1991 Owner The Polytechnic Institute Iași);
76. **I. SANDU**, C. MUNTEANU, G. CĂLUGĂRU, C. UNGUREANU, *Preparation Process of an Microalloying Prealloy*, **Patent RO108003/31.12.1993**, (OSIM File nr. 147.039/04.03.1991 Owner The Polytechnic Institute Iași);
77. **I. SANDU**, C. MUNTEANU, C. UNGUREANU, *Procedure for obtining ferro-boron alloy*, **Patent RO107695/30.11.1993**, (OSIM File nr. 147.038/04.03.1991 Owner The Polytechnic Institute Iași);
78. W. WEISS, I. ALECU, AI. STĂNILĂ, **I. SANDU**, *Preparation Process of Cell Concretes*, **Patent RO107637/30.12.1993**, (OSIM File nr. 147.515/27.03.1991 titular TEHNIC HOBBY Iași);
79. **I. SANDU**, I. RUSU, C. MĂTA, V. POPESCU, D. COZMA, *Preparation Process of Nonadherent, Shiny Surfaces*, **Patent RO107562/30.12.1993**, (OSIM File nr. 149.130/14.01.1992 Owner The Polytechnic Institute Iași);
80. **I. SANDU**, *Preparation Process of Active Manganese Dioxide, of High Density and Purity*, **Patent RO106986/30.08.1993**, (OSIM File nr. 146.098/11.10.1990 Owner The Polytechnic Institute Iași);
81. **I. SANDU**, N. CALU, I. BERDAN, Ad. BÂRSĂNESCU, *Preparation Process of Active Manganese Dioxide of High Purity*, **Patent RO106871/30.06.1993**, (OSIM File nr.146.097/11.10.1990, Owner The Polytechnic Institute Iași); cited according to DERWENT CITATION INDEX - ISI THOMPSON by KEMET ELECTRONIC CORP: **7 x 0,500 = 3,500, Author Factor = 0,875**.
82. **I. SANDU**, A.GULEA, A. ONU, D. COZMA, *Carbon Black Graphitization Process in Watery System*, **Patent RO106.232/26.02.1993**, (OSIM File nr. 147.480/06.05.1991, Owner The Polytechnic Institute Iași);
83. **I. SANDU**, S. PANAITE, O. CHIFAR, G. SAMOILĂ, *Process for Silver and Used Photosensitive Materials Supports Recovery*, **Patent RO106148/29.01.1993**, (OSIM File nr. 145.377/20.06.1990, titular Institutul Politehnic Iași);
84. **I. SANDU**, I.BERDAN, C.LUCA, I.C.A. SANDU, *Preparation Process of High-Dispersion Colloidal Silver in Organic System, in the Shape of Pellicles or Ultrathin Layers*, **Patent RO105907/30.01.1992**, (OSIM File nr. 144047/03.02.1990 Owner The Polytechnical Institute Iași);
85. **I. SANDU**, N.CALU, I.BERDAN, FI.TANASE, I.C.A. SANDU, *Preparation Process of High Dispersion Colloidal Silver in Organic Systems*, **Patent RO105551/25.09.1992**, (OSIM File nr.144.046/03.02.1990, titular Inst.Politehnic Iași);
86. **I. SANDU**, S. PANAITE, O.CHIFĂR, V. ICHIM, *Process for Recovery of Silver and of the Supports from Used Photographic Materials*, **Patent RO104938/20.01.1992**, (OSIM File nr.142.964/06.12.1989, titular Inst.Politehnic Iași), (*Chem. Abst. 1996, 124 (4), pp.237980m*); - cited according to DERWENT CITATION INDEX - ISI THOMPSON by FUJI COLOR. **Cited ISI Thomson: 2 x 0,196 (Turk.J.Chem) + 1 x 0,100 (Environmental Protection of Chemical Industry) 3 x 0,500 (2 Patente US, Patent JP) = 1,992, Author Factor = 0,498**;
87. **I. SANDU**, V.DOGARU, I. MANGALAGIU, E.FURNICĂ, M.AGOP, N. VOLOVĂȚ, *Producing Process of Ceramic Varistors*, **Patent RO104904/28.06.1991**, (OSIM File nr. 144.862/20.04.1990, Owner ELECTROARGES Factory Curtea de Arges);
88. **I. SANDU**, C. ȘERBESCU, Em. FURNICĂ, T. BALAN, *Producing Process of Ceramic Varistors*, **Patent RO104903/30.04.1991**, (OSIM File nr.142.731/27.11.1989, titular Inst.Politehnic Iași);
89. **I. SANDU**, D. GHEORGHIU, I. MĂRCUȚĂ, I. ANGHEL, *Producing Process of Ceramic Varistors*, **Patent RO104901/30.04.1991**, (OSIM File nr.141.530/08.09.1989, Owner TEHNOTON Factory Iași);
90. **I. SANDU**, I. MĂRCUȚĂ, I. ANGHEL, *Producing Proces for the Solid Electrolyte on MnO<sub>2</sub> Basis from the Condensers Structure with Sintered Tantal Anod*, **Patent RO104857/20.04.1991**, (OSIM File nr. 140.990/18.08.1989, titular Intr. TEHNOTON Iași);
91. C. BELDIE, **I. SANDU**, N. CALU, I. ANGHEL, *Production Method of Solid Electrolyte Based on MnO<sub>2</sub> from the Structure of Condensers with Tantalum Sintered Anode*, **Patent RO103903/20.04.1991**, (OSIM File nr. 138.364/16.03.1989, Owner TEHNOTON Factory Iași);

92. V. SĂHLEANU, I. SANDU, T. CIURESCU, N. SCĂNTEIANU, *Eolian Installation*, Patent RO103043/25.02.1991, (OSIM File nr. 138.080/06.02.1989, Owner The Polytechnic Institute Iasi);
93. I. SANDU, I. ROȘCA, V. RUSAN, C. MIRON, V. COLEA, T. CIURĂSCU, *Procedure for obtaining hydrophobic colloidal film, electrical conductors*, Patent RO102147/26.09.1990, (OSIM File nr. 136.347/10.12.1988, titular Intr. TEHNOTON Iași);
94. I. SANDU, O. VICOL, A. GHIURĂU, M. LUPUTIU, L. POPA, *Procedure for obtining of a cathode for water activable battery*, Patent RO102105/31.07.1990, (OSIM File nr. 134.712/29.07.1988, Owner ELECTROBANAT Factory Timișoara);
95. I. SANDU, A. GÂLEA, N. CALU, M. BALTĂ, I. BERDAN, *Water Lubrifiant for high temperature forging*, Patent RO101460/31.03.1990, (OSIM File nr. 131.739/12.01.1988, Owner RULMENTUL Factory Bărlad);
96. V. SĂHLEANU, I. SANDU, T. CIURESCU, *Solar Thermal Power Station*, Patent RO100971/31.03.1990, (OSIM File nr. 132.666/21.03.1988, Owner The Polytechnic Institute Iasi);
97. V. SĂHLEANU, I. SANDU, St. PETRESCU, *Instalation for anaerobic calcination in continuous flux*, Patent RO100868/10.03.1990, (OSIM File nr. 133.126/20.04.1988, Owner The Polytechnic Institute Iasi);
98. I. SANDU, A. BOLD, C. M. VELIȘCU, E.H.K. MULLER, C.LUCA, C. UNGUREANU, *Superficial Alloying Method for Cast Pieces*, Patent RO100290/29.11.1989, (OSIM File nr. 132.072/08.02.1988, Owner IUPSR Factory Iași);
99. I. SANDU, M. LUPUȚIU, N. CALU, L. POPA, I. BERDAN, *Electrods Production Method for Water Activated Batterys*, Patent RO100119/14.11.1989, (OSIM File nr. 131.327/26.12.1987, Owner ELECTROBANAT Factory Timișoara);
100. I. SANDU, I. ANGHEL, I. HÂNCU, E. M. SANDU, M. IORDACHE, *Procedure of graphitization of the black smoke*, Patent RO99953/25.10.1989, (OSIM File nr. 130.665/30.11.1987, Owner TEHNOTON Factory Iasi);
101. I. SANDU, I. ANGHEL, N. CALU, I. BERDAN, E. M. SANDU, *Procedeu de obținere a electrolitului solid din structura condensatoarelor cu anodă de tantal*, Patent RO99585/29.09.1989, (OSIM File nr. 130.590/24.11.1987, Owner TEHNOTON Factory Iași);
102. C. BELDIE, I. ANGHEL, I. SANDU, N. AELENEI, *Procedeu de obținere a condensatoarelor cu tantal miniatură, cu electrolit solid*, Patent RO98964/29.04.1989, (OSIM File nr. 133.883/08.06.1988, Owner TEHNOTON Factory Iași);
103. M. MĂRZA, T. MAFTEI, A. CIRLIGEANU, I. SANDU, D. IOACHIM, *Dispozitiv pentru protecția motoarelor electrice trifazate*, Patent RO98423/29.05.1989, (OSIM File nr. 129.650/04.09.1987, Owner TAGCM Factory Iasi);
104. T. CIURESCU, C. CHIMON, I. SANDU, V. MARINESCU, *Dispozitiv de măsurare a săgeților la construcții, elemente de construcții și lucrări de arta*, Patent RO98081/27.02.1989, (OSIM File nr. 131.226/23.12.1987, Owner The Polytechnic Institute Iasi);
105. T. CIURESCU, St. TANSILAV, E. TETIANU, O. CIOBANU, I. SANDU, *Installation pour l'enregistrement des parametres d'une voie routiere*, Patent RO96578/29.06.1988 (OSIM File nr. 125.908/17.12.1986, Owner The Polytechnic Institute Iasi);
106. I. SANDU, M. CALU, St. PETRESCU, *Procedeu d'obtention d'encre de chine noire*, Patent RO96319/09.07.1988 (OSIM File nr. 124.427/06.08.1986, Owner The Polytechnic Institute Iasi);
107. I. SANDU, N. CALU, E. M. SANDU, Al. CECAL, I. BERDAN, *Procedeu de graphitisation du noir de fumee*, Patent RO96239/25.08.1988, (OSIM File nr. 125.098/22.10.1986, Owner IPAUS Factory București), (49-Industrial Inorganics, 174993I/ vol.113,1990);
108. T.CIURESCU, L. GROLL, O. CIOBANU, L. STRAT, I. SANDU, *Inductive Bendmeter*, Patent RO95876/31.05.1988, (OSIM File nr. 125.907/17.12.1986 Owner The Polytechnic Institute Iasi);
109. V. COJOCARU, I. SANDU, S. STANCIU, N. Calu, A. Lazăr, „*Procedeu d'obtention des fontes a proprietes physico-chimiques superieures*”, Patent RO95467/18.03.1988,(OSIM File nr. 123.971/02.07.1986 Owner IUPSR Factory Iași), (Plavka i Zapivka Metala, 10G98 P/1989);
110. T. CIURESCU, O. CIOBANU, L. STRAT, I. SANDU, *Electromechanical Fleximetre*, Patent RO95437/30.04.1988 (OSIM File nr. 123.222/05.05.1986 Owner The Polytechnic Institute Iasi);
111. Al. STĂNILĂ, T. SILION, A. STĂNILĂ, I. SANDU, A. Balacescu, *Dispositif pour la signalisation et la poursuite des eboulements*, Patent RO94579/31.10.1987 (OSIM File nr. 122.121/05.02.1986 Owner The Polytechnic Institute Iasi);
112. Al. STĂNILĂ, A. MIHUL, A. STĂNILĂ, I. SANDU, D. MIHAI, *Fondation sur le sol par caisson a pied extensible*, Patent RO94373/24.12.1987 (OSIM File nr. 122.116/05.02.1986, Owner The Polytechnic Institute Iasi);
113. I. SANDU, N. CALU, M. LUPUȚIU, I. ANGHEL, G. ONOFREI, Al. STĂNILĂ, *Procedeu d'obtention des pellicules colloïdales hydrophobisees conductrices electroniquement*, Patent RO94193/24.10.1987 (OSIM File nr. 121.987/25.01.1986 Owner The Polytechnic Institute Iasi);
114. I. SANDU, Al. STĂNILĂ, T. CIURESCU, A. STĂNILĂ, *Procedeu d'addition pour prevention de l'agglomeration des liants hydrauliques*, Patent RO92876/25.03.1987, (OSIM File nr. 120.150/20.09.1985, Owner ICPPILA Factory, Bucuresti);
115. Cl. OPREA, I. SANDU, N. CALU, St. IVASCAN, Al. CONSTANTINESCU, M. LUPUTIU, *Procedeu d'immobilisation de l'electrolyte d'elements galvaniques seches type Leclanche*, Patent RO92674/30.10.1987 (OSIM File nr. 120.413/17.10.1985, Owner The Polytechnic Institute Iasi);
116. Al. STĂNILĂ, A. STĂNILĂ, I. SANDU, L.TĂTARU, *Installation pour la realisation des consoles laterales aux fondațiuni par caissons et procedeu de realisation*, Patent RO92549/27.02.1987 (OSIM File nr. 122.117/05.02.1985, Owner The Polytechnic Institute Iasi);
117. Al. STANILA, T. SILION, A. STĂNILA, I. SANDU si E.VIERIU, *Fondation sur le sol sur caisson polygonal*, Patent RO92547/27.02.1987 (OSIM File nr. 121.490/ 28.12.1985, Owner The Polytechnic Institute Iasi);
118. I. ANGHEL, I. SANDU, N. CALU, A. BOLD, *Procedeu d'obtention des condensatoires avec du tantal miniature, avec l'electrolite solide*, Patent RO92408/31.01.1987, (OSIM File nr. 120.149/20.09.1985, Owner TEHNOTON Factory Iași);
119. I. SANDU, St. IVĂȘCAN, Al. STĂNILĂ și I. BALASANIAN, *Procedeu d'obtention des sels des metaux alcalins et alcalino-terreux industriels non-agglomerables*, Patent RO92311/09.01.1987 (OSIM File nr. 119.032/04.06.1985, Owner The Polytechnic Institute Iasi);
120. Al. CECAL, V. CRETU, N. CALU, I. BERDAN, I. SANDU, *Procedeu de regeneration du platre use*, Patent RO92170/26.02.1986 (OSIM File nr.120.559/29.10.1985, Owner The Polytechnic Institute Iasi);
121. I. SANDU, N. CALU, I. BERDAN, M. LUPUȚIU, T. CIURESCU, *Procedeu de realisation des electrodes de chlorure d'argent pour batteries activables avec de l'eau*, Patent RO91774/23.10.1986 (OSIM File nr. 118.665/09.05.1985, Owner ELECTROBANAT Factory Timisoara);
122. N. CALU, I. SANDU, B. MORLAYE, M. CALU, *Procedeu de recuperation des principales composantes de schlamm rouge resulte de fabrication de l'alumine*, Patent RO91333/05.09.1986 (OSIM File nr. 117.882/06.03.1985, Owner The Polytechnic Institute Iasi);
123. L.POPA, M. LUPUȚIU, Al. MILOI, I. SANDU, N. CALU, N. AELENEI, *Procedeu pour l'obtention d'un electrolyte d'immobilisation pour elements galvaniques primaires*, Patent RO91211/28.08.1986 (OSIM File nr.118.447/18.04.1985, Owner ELECTROBANAT Factory Timișoara);

124. **I. SANDU**, I. ROȘCA, C. LUCA, I. BALASANIAN, *Electrolyte pour etamage reluisant*, Patent RO90898/17.06.1986 (OSIM File nr. 117.834/04.03.1985 Owner TEHNOTON Factory Iași);
125. N. CALU, A. BĂRSĂNESCU, **I. SANDU**, I. BERDAN, M. LUPUȚIU, *Procede de recuperation du manganese en forme de dioxyde de manganese actif d'elements galvaniques type Leclanche uses*, Patent RO90070/29.3.1986 (OSIM File nr.115.395/01.08.1984, Owner The Polytechnic Institute Iasi); Cited ISI Thomson: 0,500 (Patent DE), Author Factor = 0,100;
126. **I. SANDU**, T. CIURESCU, N. CALU, I. BERDAN, M. LUPUȚIU, L. POPA, *Methode et dispositif pour la determination de l'activite electronique du dioxyde de manganese*, Patent RO89886/30.01.1986 (OSIM File 115.155/06.07.1984, Owner ELECTROBANAT Factory Timișoara);
127. T. CIURESCU, **I. SANDU**, C. CAPATU, N. CALU, *Batterie hybride reversible de piles metal-air*, Patent RO89169/28.10.1985 (OSIM File nr. 114.955/21.06.1984, Owner ELECTROTEHNICA Factory Bistrița);
128. **I. SANDU**, N. CALU, D. PINTEA, AI. CECAL, I. BERDAN, *Electrolyte pour le revetement aveletain reluisante*, Patent RO88985/28.10.1985 (OSIM File nr. 114.925/19.06.1984, Owner TEHNOFRIG Factory Cluj-Napoca);
129. CI. OPREA, N. CALU, **I. SANDU**, AI. CONSTANTINESCU, M. LUPUȚIU, L. POPA, *Electrolyte et procede de realisation du compartiment electrolytique de la structure des batteries a mercure*, Patent RO88851/29.08.1985 (OSIM File nr.113.963/19.03.1984, Owner ELECTROBANAT Factory Timișoara);
130. C. CALISTRU, St. PETRESCU, I. BALASANIAN, **I. SANDU**, *Procede d'obtention de syngenithe*, Patent RO88488/27.06.1985 (OSIM File nr.113.965/19.03.1984, Owner CICH Factory Bacău), (C.A. 14 L 159P/1987);
131. N. CALU, **I. SANDU**, S. RĂU, I. ANGHEL, AI. CECAL, I. BERDAN, *Procede d'obtention de la premiere couche catodique dans la structure des condensateurs avec electrolyte solide avec tantale*, Patent RO88214/29.05.1985 (OSIM File nr. 110.745/22.04.1983, Owner The Polytechnic Institute Iasi);
132. AI. CECAL, V. MORAR, V. GYORGY, N. CALU, I. ENCULESCU, O. VICOL, I. BERDAN, **I. SANDU**, A. RANG, *Procede pour la recuperation des ions de calcium des eaux residuales de fabrication de l'oxychlorure de cuivre*, Patent RO87901/29.06.1985 (OSIM File nr.111.413/27.06.1983, Owner CHIMICĂ Factory Turda);
133. N. CALU, E. BĂLĂNESCU, **I. SANDU**, I. BERDAN, M. LUPUȚIU, L. POPA, Ad. BĂRSĂNESCU, *Procede d'obtention du dioxyde de manganese actif*, Patent RO87850/20.11.1985 (OSIM File nr. 114.435/16.12.1983, Owner The Polytechnic Institute Iasi);
134. N. CALU, E. BĂLĂNESCU, **I. SANDU**, I. BERDAN, M. LUPUȚIU, L. POPA, Ad. BĂRSĂNESCU, *Procede d'obtention du dioxyde de manganese actif*, Patent RO87570/26.03.1985 (OSIM File nr. 112.665/26.11.1983, Owner The Polytechnic Institute Iasi), (C.A. 24 L 138/1986), cited according to DERWENT INNOVATION INDEX - ISI THOMPSON by Resources, Conservation and Recycling, (ISSN 0921-3449), (Impact Factor ISI = 1,133), 4, 3, 233-240, SEP1990, ref. nr. 28, ISI Factor = 1,133, Author Factor = 0,161;
135. N. CALU, AI. MILOI, L. POPA, M. LUPUȚIU, I. BERDAN, **I. SANDU**, R. LUPUȚIU, *Procede de recuperation du zinc d'elements galvaniques*, Patent RO87476/30.11.1984 (OSIM File nr. 110.103/22.02.1983, Owner ELECTROBANAT Factory Timișoara), (C.A. 4 L 231/1987) cited according to DERWENT INNOVATION INDEX - ISI THOMPSON by Resources, Conservation and Recycling, (ISSN 0921-3449), (Impact Factor ISI = 1,133), 4, 3, 233-240, SEP1990, ref. nr. 26: ISI Factor = 1,133, Author Factor = 0,161;
136. N. CALU, **I. SANDU**, C. GANEA, A. GÂLEA, I. BERDAN, E. SAVIUC, AI. CECAL, O. VICOL, *Procede d'obtention des lubrifiants en base de suspensions de graphite colloidal ou semi-colloidal en milieu aqueuse*, Patent RO86766/28.11.1984 (OSIM File nr.110.893/07.05.1983, Owner The Polytechnic Institute Iasi), (C.A. 3 P 351 P/1987).

#### K. Papers Published in Technical Scientific and Methodical-Educational National Journals (18):

1. **I. SANDU**, M. MOSNEGUTU, „Obtinerea hidrogenului energetic. II. Termoliza apei”, în BULETINUL DE FIZICA SI CHIMIE, Bucuresti, seria A, XIV, 14, (1990), p. 107-112;
2. **I. SANDU**, I. BERDAN, C. STANCIU, „Aspecte privind dezvoltarea convertizoarelor electrochimice”, în BULETINUL DE FIZICA SI CHIMIE, Bucuresti, seria A, XIV, 14, (1990), p.178-186;
3. **I. SANDU**, P. CIOLACU, „Perspective privind stocarea hidrogenului (II)”, în BULETINUL DE FIZICA SI CHIMIE, Bucuresti, seria A, XIV, 14, (1990), p.232-241;
4. **I. SANDU**, T. POPA, S. STEFAN, „Utilizarea energiei solare in sisteme criogene (II)”, în BULETINUL DE FIZICA SI CHIMIE, Bucuresti, seria A, XIV, 14, (1990), p. 322-323;
5. **I. SANDU**, G. IRIMIA, GH. DUTUC, I.C.A. SANDU, „Sisteme disperse moleculare. III. Relatii de calcul privind starea gazoasa”, în BULETINUL DE FIZICA SI CHIMIE, Bucuresti, seria A, XIV, 14, (1990), p.113-118;
6. **I. SANDU**, T. POPA, T. STURZU, „Polimeri conductori si semiconductori”, în BULETINUL DE FIZICA SI CHIMIE, Bucuresti, seria A, XIV, 14, (1990), p.298-306;
7. I. BERDAN, **I. SANDU**, T. POPA, „Perspective in dezvoltarea supraconductorilor ionici solizi”, în BULETINUL DE FIZICA SI CHIMIE, Bucuresti, seria A, XIV, 14, (1990), p. 384-392;
8. **I. SANDU**, M. CRISTACHE, L. ELISEI, „Sisteme disperse moleculare. (I). Fenomene care au loc la dizolvare. Modul de exprimare a concentratiilor si relatiile dintre ele”, în BULETINUL DE FIZICA SI CHIMIE, Bucuresti, seria A, IX, 11, (1987), p.36-50;
9. **I. SANDU**, M. CRISTACHE, Ad. AMAZILITEI, „Sisteme disperse moleculare (II). Obtinerea si modificarea concentratiei solutiilor”, în BULETINUL DE FIZICA SI CHIMIE, Bucuresti, seria A, XI, 11, (1987), p. 53-59;
10. **I. SANDU**, M. AGOP, Tr. VIDRASCU, „Aspecte privind constructia si functionarea pilelor Karpen”, în BULETINUL DE FIZICA SI CHIMIE, Bucuresti, seria A, IX, 9, (1986), p.104-109;
11. N. CALU, **I. SANDU**, M. MOSNEGUTU, S. ZBUGHIN, „Obtinerea hidrogenului prin cicluri termochimice utilizind oxizi nestoichiometrici ai manganului”, în BULETINUL STIINTIFIC STUDENTESC AL INSTITUTULUI POLITEHNIC "GH.ASACHI" IASI, vol.X, sec.I - Chimie si Inginerie Chimica, (1985), p.51-58;
12. **I. SANDU**, M. MOSNEGUTU, „Metodica predarii in clasa a descoperirilor epocale din chimie”, BULETINUL STIINTIFIC STUDENTESC AL INSTITUTULUI POLITEHNIC "GH.ASACHI" IASI, vol.X, sec.I - Chimie si Inginerie Chimica, (1985), p.84-52;

13. N. CALU, I. BERDAN, I. SANDU, N. BILBA, S. ILIE, I. IFTIMIE, „*Complecși cu ionul vanadii*”, **BULETINUL ȘTIINȚIFIC STUDENȚESC AL INSTITUTULUI POLITEHNIC IAȘI**, vol.IX, sec.I - Chimie și Inginerie Chimică, (1984), p. 40-48;
14. N.CALU, I. SANDU, I.BERDAN, C.GRATIE, M.CRISTACHE, „*Studiul unor noi sisteme foto-electrochimice*”, **BULETINUL ȘTIINȚIFIC STUDENȚESC AL INSTITUTULUI POLITEHNIC IAȘI**, vol.IX, sec.I - Chimie și Inginerie Chimică, (1984), p.48-55;
15. N.CALU, S.ILIE, I. SANDU, I.BERDAN, A.D.NICA, „*Combi-nații complexe cu Ni(III)*”, **BULETINUL ȘTIINȚIFIC STUDENȚESC AL INSTITUTULUI POLITEHNIC IAȘI**, vol.VIII, sec.I Chimie și Inginerie Chimică, (1983), p.68-76;
16. I. SANDU, „*Soluție pe bază de grafit coloidal în sistem apos*”, **VIAȚA ȘTIINȚIFICĂ**, Institutul Politehnic Iași, nr. 3 (7), martie 1982, p. 3-8;
17. N.CALU, I. SANDU, A.ADIACONITEI, V.TIMIȘ, „*Dioxidul de mangan activ*”, **BULETINUL ȘTIINȚIFIC STUDENȚESC AL INSTITUTULUI POLITEHNIC "GH.ASACHI" IAȘI**, vol.VI, secția I - Chimie și Inginerie Chimică, (1981), p.60-68;
18. I. SANDU, „*Piroluzita Iacobenii activată ca depolarizant în pilele galvanice*”, **BULETINUL ȘTIINȚIFIC STUDENȚESC AL INSTITUTULUI POLITEHNIC "GH.ASACHI" IAȘI**, vol.I, sec.II - Chimie și Inginerie Chimică, (1976), p.37-47.

**PhD Thesis:** „Redox System in electrochemical conversion of energy” - “Gh.Asachi” Polytechnical Institute of Iași, Faculty of Chemistry and Chemical Engineering, 11th of Nov, 1984.