

**Europass  
Curriculum Vitae**



**Personal information**

First name / Surname

**Ion SANDU**

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[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 Forensic Science**

**Work experience**

Dates (*from – to*)

**01.03.1980 - 01.10.1996**

Occupation or position held

Assist. Professor,

Main activities and responsibilities

Head of Microproducts Laboratory and holder of discipline Gheorghe Asachi Technical University of Iasi/Polytechnic Institute

Dates (*from – to*)

**01.10.1996 – PRESENT**

Occupation or position held

Professor,

Main activities and responsibilities

Director of Laboratory Scientific Investigation and holder of discipline

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 (*from – to*)

**01.10.2009 – Present**

Occupation or position held

Professor

Main activities and responsibilities

Supervisor, PhD Thesis coordinator

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 (*from – to*)

**01.10.2010 – Present**

Occupation or position held	Professor
Main activities and responsibilities	Supervisor Project, Master Thesis coordinator
Name and address of employer	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
Type of business or sector	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.
Dates (from – to)	<b>01.10.2006 – 01.10.2010</b>
Occupation or position held	Director Partner Project
Main activities and responsibilities	Supervisor Project, PhD Thesis coordinator
Name and address of employer	EPISCON (European PhD in Science for Conservation), Studies University of Bologna/"Al. I.Cuza" University of Iasi, B-dul Carol I, Iasi, Romania
Type of business or sector	Scientific Investigation and Conservation of Cultural Heritage Department
Dates (from – to)	<b>01.10.2005 – Present</b>
Occupation or position held	Director
Main activities and responsibilities	Supervisor research projects and themes,
Name and address of employer	"Al. I.Cuza" University of Iasi, B-dul Carol I, Iasi, Romania
Type of business or sector	Laboratory of Scientific Investigation and Conservation of Cultural Heritage, ARHEOINVEST Research and Education Interdisciplinary Platform
Dates (from – to)	<b>01.10.2000– 01.07.2006</b>
Occupation or position held	Professor
Main activities and responsibilities	Master course: Conservation of Monuments
Name and address of employer	"Gh. Asachi" Technical University of Iasi, B-dul D. Mangeron 71, Iasi, Romania
Type of business or sector	Department of Civilian Constructions and Architecture
Dates (from – to)	<b>01.03.1980 – 31.09.1990</b>
Occupation or position held	Assist. Prof.
Main activities and responsibilities	Holder of discipline, Supervisor Project and Thesis coordinator
Name and address of employer	"Gh. Asachi" Technical University of Iasi, B-dul D. Mangeron 71, Iasi, Romania
Type of business or sector	Department of Inorganic Chemistry
Dates (from – to)	<b>01.01.2020 – PRESENT</b>
Occupation or position held	Associate member
Name and address of employer	Romanian Academy of Scientists, Bucharest
Type of scientific field	Research and Innovation Department
<b>Education and training</b>	
Dates	1976 – 1984 Ph.D. Programme "Gh. Asachi" Technical University of Iasi, Romania 1975-1976: Master - "Gh. Asachi" Technical University of Iasi Specialization: Inorganic Chemistry 1971 – 1975: "Gh. Asachi" Technical University of Iasi Specialization: Inorganic Chemistry 1967- 1971: High-School – Moinesti, Bacau, Romania
Title of qualification awarded	Ph.D degree in Chemistry

**Personal skills and competences**

Mother tongue(s)

**Romanian**

Other language(s)

Self-assessment

*European level (\*)***Russian Language****French Language****English 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 (8)  
 Organization of International Symposium in Cultural Heritage (7)

Computer skills and competences

Office 2003, 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:** 05.12.2020**Signature**


**Author or co-author** of 87 books, 1128 scientific papers (391 ISI), 159 patents (30 abroad and 129 Derwent Innovation Index/ISI), 627 International scientific communications and 832 National scientific communications.

**Scientific paper, books and patents cited in other authors** (3.500): ISI paper (3292/19500 fără autocitări), books and proceedings (136), patents (83), PhD thesis (71), dictionaries and albums (36), your books reviewer in ISI Journal (17);

**Hirsch Index:** 27 ISI/25 Scopus;

**Director or coordinator of national research programme** 112 projects, 6 European projects and research team member in 71 national projects;

**Supervisor PhD Thesis:** 9 foreign students (Japan, Jordan, Cameroon, Ivory Coast, France, Malaysia and Italy) and 22 Romanian students graduated, 8 Romanian PhD students and 1 foreign (Iran) PhD students currently in development;

**Member in International Juries** (ARCHIMEDES - Moscow, 2003-2019, NEW-TIMES - Sevastopol, 2006-2014, INFOINVENT - Kishinev, 2005-2017, INOVA – Zagreb, 2008-2015, INVENTICA-Bucharest, 2006-2010, PROINVENT - Cluj Napoca, 2006-2017, EUROINVENT – Iasi, 2009-2019);

**Member of Scientific Boards Journals** (36 national and international journal and 1 coordinated series - PATRIMONIUM - „A.I.Cuza” University Publishing House, see in Annexes);

**Member of Romanian Academy of Scientists (2019);**

**Doctor Honoris Causa/Professor Emeritus/Honorary Senator** (Sibiu 2017, Galati 2013, Sofia 2006, New York 1998);

**Honorary Citizen of the locality born** (2019)

**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)**

#### Additional information

**Prises and Awards** (212), **Medals** (638) and **Diplomas** (160), 32 first Prize in national invention exhibitions (1980-1989), 380 gold medals, 179 silver medals and 79 bronze medals at international exhibitions of inventions, 1992-2020 (Brussels, Moscow, London, Seoul, Istanbul, Budapest, Warsaw, Taipei, Zagreb, Kishinev, Cairo, Pittsburgh, Geneva, Barcelona, Toronto, Varna, Novi Sad, Perlis-Malaysia, Macao-China, Skopje, Bangkok, Sevastopol, Bucharest, Cluj-Napoca, Galați and Iași).

#### 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 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).

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

## Annexes

**Author or co-author** at 87 Books, 1128 scientific papers (391 ISI), 159 patents (30 abroad and 158 Derwent Innovation Index/ISI) 627 International Scientifically Communication and 832 National. Coordinator of 112 scientific grants.

**Director of National Research Programme** 112 projects, 6 European projects and research team member in 71 National Projects;  
**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:

- World Invention Intellectual Property Association, Taiwan (2013-2016);
- Founding-member of the Romanian Scientist Association (1984 - 2016);
- Active Member of The New York Academy of Sciences (1984-1996);
- Member of the Invents Committee of the Romanian Academy (1988 - 2016);
- Founding-member of Romanian Invents Society (1991 - 2003);
- Founding-member of Romanian Inventors Forum (2003-2016)
- Member of the EURISTIKA International Creativity Association (1991, Volgograd);
- Member of the Physical-Chemistry Society (1991 - 2016);
- 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 - 2016);
- 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 (2003-2016);

**Member in International Juries** (ARCHIMEDES - Moscow, 2003-2012, NEW-TIMES - Sevastopol, 2006-2012, INFOINVENT - Kishinev, 2005-2016, INOVA - Zagreb, 2008-2012, INVENTICA-Bucharest, 2006-2010, PROINVENT - Cluj Napoca, 2006-2014, EUROINVENT - Iasi, 2009-2017);

### Member of Scientific Boards and reviewer of Journals (43):

- **INTERNATIONAL JOURNAL OF CONSERVATION SCIENCE**, (Print ISSN 2067-533X, Online 2067-8223),"Al.I.Cuza" University of Iasi, (SCOPUS/Web of Science), 2010-2019 – **Founder and Editor in Chief**; <http://www.ijcs.uaic.ro/>
- **APPLIED SCIENCE – Basel**, (ISSN 2076-3417) *Gues Editor* - Special Issue "Obtaining, Characterization and Applications of Advanced Materials".(Web of Science and Scopus), 2019-2020, [www.mdpi.com](http://www.mdpi.com)
- **OPEN JOURNAL OF ARCHAEOLOGY** (PAGEPress Publications, Pavia, Italy), (eISSN 2038-1956), (SCOPUS, BDI), 2011-2016 – **Scientific Editor and Reviewer**; <https://www.pagepress.org/journals/index.php/arc/board>
- **MEDITERRANEAN ARCHAEOLOGY AND ARCHAEOLOGY**, ISSN (Online): 2241-8121 ISSN (Print): 1108-9628, (SCOPUS/Web of Science), 2018-2019 – **Member of Scientific Board and Reviewer**; <http://www.maajournal.com/editorialboard.php>
- **CHEMISTRY RESEARCH JOURNAL (An International Journal)**, ISSN 2455-8990, 2017-2019 – **Member of Scientific Board and Reviewer**; <http://chemrj.org/>.
- **CHEMISTRY JOURNAL OF MOLDOVA**. General, Industrial and Ecological Chemistry, ISSN 1857-1727 (print), ISSN 2345-1688 (online) (Web of Science), 2015-2019 – **Member of Scientific Board and Reviewer**; [http://cjm.asm.md/editorial\\_board](http://cjm.asm.md/editorial_board);
- **URBANISM. ARHITECTURĂ. CONSTRUCȚII** (Revista INCD URBAN-INCERC, ISSN 2069-0509 (print)/2069-6469(online), (SCOPUS/Web of Science), 2015-2019 – **Member of Scientific Board and Reviewer**; <http://uac.incd.ro/>
- **JOURNAL OF ARCHAEOLOGICAL SCIENCE: REPORTS** (SCOPUS, BDI), 2014-2019 – **Member of Scientific Board and Reviewer**; <https://www.journals.elsevier.com/journal-of-archaeological-science-reports/editorial-board>
- **RECENT PATENTS ON CORROSION SCIENCE JOURNAL** (Bentham Science Publishers, New York), (ISSN 1877-6108), (SCOPUS, BDI), 2011-2019 – **Member of Scientific Board and Reviewer**;
- **EGYPTIAN JOURNAL OF ARCHAEOLOGICAL AND RESTORATION STUDIES**, (print ISSN 2090-4932, eISSN 2090-4940), (SCOPUS, BDI), 2011-2019 – **Member of Scientific Board and Reviewer**, <http://ejars.sohag-univ.edu.eg/>;
- **REVISTA DE CHIMIE** (ISSN 0034-7752), București (ISI Thomson **Factor 0.810/2014**), 1996-2017 – **Member of Scientific Board and Reviewer**;
- **PHARMACEUTICAL SCIENTIFIC & ANALYTICAL RESEARCH JOURNAL** (ISSN ) Non ISI, 2018-2019 – **Member of Scientific Board and Reviewer**; <http://chembioepub.com/PSARJ/editorial-board.php>
- **MICROCHEMICAL JOURNAL** (ISSN: 0026-265X), (ISI Thompson **Factor 3.034/2016**), 2012-2019 - **Reviewer**; <https://www.evis.com>
- **MATERIAL CHEMISTRY AND PHYSICS**, (ISSN: 0254-0584), ELSEVIER SCIENCE SA (ISI Thomson **Factor 2.356/2010**), 2012-2019, - **Reviewer**; <http://ees.elsevier.com/matchemphys/>

- **DESALINATION AND WATER TREATMENT**, (ISSN: 1944-3994), (ISI Thompson, **Factor 0.852/2012**), 2014-2019, - *Reviewer*; [desalinationpublications@gmail.com](mailto:desalinationpublications@gmail.com);
- **DESALINATION**, (ISSN: 0011-9164), (ISI Thompson **Factor 3.041/2012**), 2013-2019, - *Reviewer*;
- **JOURNAL OF ARCHAEOLOGICAL SCIENCE**, (ISSN: 0305-4403), Elsevier, (ISI Thompson **Factor 1.710/2010**), 2014-2019, - *Reviewer*;
- **JOURNAL OF APPLIED ELECTROCHEMISTRY**, (ISSN: 0021-891X - print version, ISSN: 1572-8838 - electronic version), Springer Netherlands, (ISI Thompson, **Factor 1.496/2010**), 2011-2019 - *Reviewer*;
- **JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY**, (ISSN: 1388-6150 Print version si 1572-8943 Online version) Springer Budapest, (ISI Thompson **Factor 1.752/2010**), 2010-2019, - *Reviewer*;
- **ENGINEERING GEOLOGY** (ISSN: 0013-7952) Elsevier, (ISI Thompson **Factor 2.315/2013**), 2013-2019, - *Reviewer*;
- **THERMOCHIMICA ACTA**, (ISSN: 0040-6031), Elsevier, (ISI Thompson **Factor 1.908/2010**), 2014-2019, - *Reviewer*;
- **WOOD AND FIBER SCIENCE**, (ISSN: 0735-6161), (ISI Thompson **Factor 0.717/2012**), 2012-2019, - *Reviewer*;
- **INSTRUMENTATION SCIENCE & TECHNOLOGY**, (ISSN: 1073-9149, eISSN: 1525-6030), (ISI Thompson **Factor 0.800/2013**), 2015-2019, - *Reviewer*;
- **ANALYTICAL LETTERS**, (ISSN: 0003-2719, eISSN: 1532-236X), (ISI Thompson **Factor 1.03/2013**), 2014-2019, - *Reviewer*;
- **AFRICAN JOURNAL OF AGRICULTURAL RESEARCH (AJAR)** (ISSN 1991- 637X), (ISI Thompson **Factor 0.263/2010**), 2013-2019, - *Reviewer*, [www.academicjournals.org/ajar](http://www.academicjournals.org/ajar);
- **AFRICAN JOURNAL OF MICROBIOLOGY RESEARCH (AJMR)**, (ISSN 1996-0808), (ISI 0031 Thompson **Factor 0.528/2010**), 2013-2019, - *Reviewer*, [www.academicjournals.org/ajmr](http://www.academicjournals.org/ajmr);
- **AFRICAN JOURNAL OF ENGINEERING RESEARCH (AJER)**,(CNCSIS BDI), 2013-2019, - *Reviewer*, [www.netjournals.org](http://www.netjournals.org);
- **BASIC RESEARCH JOURNAL OF SOCIAL AND POLITICAL SCIENCE (BRJSPS)**,(CNCSIS BDI), 2013-2019 - *Reviewer*, [www.basicresearchjournals.org](http://www.basicresearchjournals.org)
- **BIORESOURCES (BR)**, (ISSN: 1930-2126), (CNCSIS BDI), 2013-2019, *Reviewer*, <https://www.ncsu.edu/bioresources/editorialboard.htm>;
- **JOURNAL OF PETROLEUM AND GAS EXPLORATION RESEARCH (JPGER)**, (ISSN 2276-6510),(CNCSIS BDI), 2011-2019 - *Reviewer*, <http://interesjournals.org/JPGER/index.htm>;
- **ITALIAN JOURNAL OF PEDIATRICS**, ISSN: 1824-7288 (Online) (ISI Thomson **Factor 1.523/2014**), 2015-2016 - *Reviewer*, <http://www.ijponline.net/>
- **RSC ADVANCES**, An international journal to further the chemical sciences, Royal Society of Chemistry, Online only 2016: ISSN 2046-2069, (ISI Thomson **Factor 3.84/2014**, SCOPUS), 2015-2019 - *Reviewer*, <http://www.rsc.org/journals-books-databases/about-journals/rsc-advances/>
- **JOURNAL OF ENGINEERING STUDIES AND RESEARCH**, ISSN: 2068-7559; 2019– *Member of Scientific Board and Reviewer* <http://pubs.ub.ro/?pg=revues&rev=jesr&sc=editboard>
- **JOURNAL OF ENGINEERING AND TECHNOLOGY RESEARCH (JETR)** (ISSN:2006-9790), (CNCSIS BDI) 2011-2019 - *Reviewer*, [www.academicjournals.org/jetr](http://www.academicjournals.org/jetr);
- **CURRENT TRENDS ON BIostatISTICS & BIOMETRICS (CTBB)**, ISSN: 2644-1381; 2017-2020– *Member of Scientific Board and Reviewer*, <https://lupinepublishers.com/biostatistics-biometrics-journal/editorial-committee.php>
- **STUDIA ANTIQUA ET ARCHAEOLOGICA**, Universitatea „Al. I. Cuza” Iași, ISSN (B+ CNCSIS, SCOPUS), 2010-2019 – *Member of Scientific Board and Reviewer*; <http://saa.uaic.ro/about-the-journal/editorial-board/>
- **ACTA UNIVERSITATIS CIBINIENSIS, Seria F CHEMIA** (ISSN 1583-5030), Universitatea „Lucian Blaga” Sibiu (CNCSIS B+, SCOPUS) 2006-2011– *Member of Scientific Board and Reviewer*;
- **THE ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI. FASCICLE IX. METALLURGY AND MATERIALS SCIENCE** (ISSN 1453-083X), (CNCSIS B+) 2006-2019 – *Member of Scientific Board and Reviewer*; <http://www.sim.ugal.ro/editorialBoard.htm>
- **PRO-LIGNO** (ISSN 2069-7430), (CNCSIS B+) –2009-2019 - *Member of Scientific Board and Reviewer membru colegiul de redacție*, <http://www.proligno.ro/ro/index.htm>
- **EUROPEAN JOURNAL OF MATERIALS SCIENCE AND ENGINEERING** (ISSN print: 2537-4338, ISSN online: 2537-4346) – 2016 – 2019 - *Member of Scientific Board and Reviewer*; <http://ejmse.tuiasi.ro/index.html>
- **REVISTA DE INVENTICĂ** (ISSN 1210-3084), Institutul Național de Inventică Iași (CNCSIS B) 1991-1996 – *Member of Scientific Board and Reviewer*;
- **REVISTA DANUBIUS** (ISSN ), Muzeul de Istorie Galați, (CNCSIS C), 2010-2016 - *Member of Scientific Board and Reviewer*; [http://www.revistadanubius.ro/index.php?option=com\\_content&view=article&id=52&Itemid=59&lang=en](http://www.revistadanubius.ro/index.php?option=com_content&view=article&id=52&Itemid=59&lang=en)
- **REVISTA CERCETARII ȘTIINȚIFICE** (ISSN 2066-6713), Ed. Performantica Iași, - *Member of Scientific Board and Reviewer*;
- **PATRIMONY BOOK**, „Al.I.Cuza”University Publishing House, 2005-2016 - *coordinated series*.

**Medals (658/380 gold medals, 179 silver medals and 79 bronze medals) and Diplomas (160)** at International Exhibition of Invents after 1992 (Brussels, Moscow, London, Seoul, Istanbul, Warsaw, Budapest, Taipei, Zagreb, Kishinew, Pittsburgh, Geneva, Barcelona, Varna, Novi Sad, Osetiek, Perlis-Malaysia, Macao-China, Sevastopol, Bucharest and Iasi) and 32 first Prize at the National Invention Exhibition (1980-1989).

**Prises and Awards (212)** at International Exhibition of Invents (Brussels, Moscow, London, Seoul, Istanbul, Budapest, Warsaw, Taipei, Zagreb, Kishinew, Pittsburgh, Cairo, Geneva, Barcelona, Varna, Novi Sad, Perlis-Malaysia, Macao-China, Sevastopol, Bucharest and Iasi), which of the most important are:

- [1] Special Diploma of the European Arts Academy, (1993);
- [2] "Henri Coanda" Award, 3-rd, 2-rd and 1-st Classes. Romanian Academy (1991-1993);
- [3] Award 1-st Classes, Kishinew,, 1993
- [4] "Stefan cel Mare si Sfânt" Metropolitanate of Iasi (1994);
- [5] "Dimitrie Leonida", Award 1-st Classes, Technical Museum Bucharest (1996);
- [6] Special Award, Parthasarathy International Cultural Academy, Madras - India, (1997);
- [7] Grand Prix Gold ARCHIMEDES, Moskow, (2004);
- [8] Honorary Diploma, AGEPI, Kishinew, R.Moldova, (2002);
- [9] Honorary Price, AGEPI, Kishinew, R.Moldova, (2004);
- [10] Chevalier Degree of Inventive Merit, Brussels – Belgium (2002);
- [11] Officer Degree of Inventive Merit, Brussels – Belgium (2003);
- [12] Commandor Degree of Inventive Merit, Brussels – Belgium (2004);
- [13] Gold Archimedes, Moskow, GRAND PRIX (2005).
- [14] Commandor Degree "G. Constantinescu" – Cluj-Napoca (2005);
- [15] "Petru Poni" Award 1st Class – Iasi (2005)
- [16] Excelency Dipoma for Culture – Bucharest (2005)
- [17] Prize of National Authority for Research – MedC, Bucharest (2005),
- [18] Great Officier Degree of Inventive Merit, Brussels – Belgium (2005)
- [19] Founding member of International Innovation Club ARCHIMEDES Moskow (2005);
- [20] Honorary Academician of International Academy of Arts and Science, Verbano, Italy (2005);
- [21] Gold Medal ICEPEC, Bruxelles, 2005;
- [22] Grand Prix „Archimede de Aur” 2005;
- [23] Grand Officer Degree of Inventive Merite Order, Brussels – Belgium (2005);
- [24] Excelency Diploma – Romanian Association for Cultural Heritage, Bucharest (2005).
- [25] Excelency Diploma for Research with Gold Medal, Salonul INVENTICA 2005, Bucuresti,
- [26] Special Prize and Silver Cup, MCT-ANCS, București, 2005,
- [27] Special Prize and Gold Cup, „Pricinosti” Superiour School, Ucraina-Estonia-Belgia, 2005,
- [28] Special Prize and Gold Cup, Ajumel Academic Center, Sevastopol, 2005,
- [29] Special Prize and Cristal Cup, Pedagogical Assoc. of Inovators, Sevastopol, 2005;
- [30] Grad de Comandor Order „G. Constantinescu” Cluj-Napoca 2005;
- [31] DOCTOR HONORIS CAUSA, Balkan Academy of Science, Sofia, 2006;
- [32] Gold Medal and RUN Order, Bruxelles, 2006;
- [33] Gold Cup and Special Prize, MOO „Sociopolis in the Ukraine” (Kiev), sept. 2006;
- [34] Gold Cup and Special Prize, „Centri Sodeistvia Radiacionoi Iadernoi i Ekologhiceskoi Bezopasnosti” Sevastopol, sept. 2006, Ukraina;
- [35] Attestation as Expert in Scienific Investigation and Conservation, Ministry of Culture, Bucharest, 2007;
- [36] Special Prize, Economic of the Development Agence of City Sevastopol, Ucraina, Moscova , 2007;
- [37] Order „Rojdenia”, Ajumel Academic Center, Sevastopol, Ucraina, 2008;
- [38] Grand Prix and Gold Cup, Technical University of Chișinău, 2008;
- [39] Prize of Inventors Union, R. Moldova, Chisinau, 2009;
- [40] Grand Prix „The Best International Delegation”, INOVA Zagreb, 2009;
- [41] Prize „Honor of Invention”, Taipei, 2009;
- [42] Order GOLD ARCHIMEDES (Ionation International Club of Moskow), Zagreb, 2009;
- [43] Grand Prix and Gold Cup, Technical University of Chișinău, Iași, 2009;
- [44] Grand Prix and Gold Cup, AGEPI- Chișinău, Iași , 2009;
- [45] „AS Popov” Medals, International Academy of Inventics of Sankt Petersburg, Iași, 2009;
- [46] Special Prize „Nicola TESLA”, Sevastopol 2010,
- [47] Chavalier of the Order STAR ODIN, Sevastopol, 2010,
- [48] Grand Prize „The Best International Delegation”, ATTIC Barcelona 2010;
- [49] Special Prize, International Academy of Inventics, Kiev, 2010
- [50] Special Prize, International Jury, INVENTICA 2010, Iasi;
- [51] Special Prize, National Scientific Book Exhibition, Iasi, 2010 (Scientific Conservation of the Stone Monuments);
- [52] Prize „Excelence in Research”, POLITEHNICA University of Bucuresti, 2010;
- [53] Special Prize of the Innovation Educational Association of Sevastopol, 2011;
- [54] Grand Prix of the Inventics Iranian Institute, 2011;
- [55] Special Award of the Croatian Inventors Association, 2011;
- [56] Creativity Order of the Superior School „Pricinosti” of Sevastopol, 2011;
- [57] Special Award of the Science Academy of Ukraine, 2011;
- [58] Diplom and Gold Medal of AGEPI, Kishinew, 2011;
- [59] Diplom and Gold Medal of Technical University of Moldova, Kishinew, 2011;
- [60] Diplom and Gold Medal of Medicine University of Moldova, Kishinew, 2011;
- [61] Best European Invention, Pittsburgh, 2012;
- [62] Sport & Recreation Best Invention, Zagreb/Zibenik, 2012;
- [63] Grand Prize with scarf „King Sejong Inventors Order of Merit”, Seoul, 2012;
- [64] Prize Honor of Inventions, World Invention Intellectual Property Association, Taiwan (2013);
- [65] Medalia Jubiliara a Academiei de Stiinte din Republica Moldova, 05.05.2013.

- [66] Grand Prix at Moldavian Technical University, INFOINVENT 2013, Chişinău;
- [67] Leading Innovation Award for New procedure on potabilization water, Invention Show & Technomart, IIPNF – International Intellectual Property Network Forum, Taipei, Nov. 2013;
- [68] Leading Innovation Award for Device of administration phytosanitary substances in ligneous plants, Invention Show & Technomart, IIPNF – International Intellectual Property Network Forum, Taipei, Nov. 2013;
- [69] INOVA Best International Exhibitor Award, International Invention Show - INOVA, Zagreb, 12-17 Nov. 2013;
- [70] Award for International Innovation Achievements – HALLER ProInventio Fundation, International Invention Show - INOVA, Zagreb, 12-17 Nov. 2013;
- [71] Honor of Invention – WIIPA for New Procedure on potabilization water, International Invention Show - INOVA, Zagreb, 12-17 Nov. 2013;
- [72] Honor of Invention – WIIPA for Device of administration phytosanitary substances in ligneous plants, International Invention Show - INOVA, Zagreb, 12-17 Nov. 2013;
- [73] WIIPA Order, World Invention Intellectual Property Association, Taiwan;
- [74] Special Priz Best Invention, Istanbul Aydin University;
- [75] Special Award CIGIF 2013, Seoul Korea;
- [76] Certificate of Excellence in Reviewing for 2013, awarded in recognition of an outstanding contribution of the quality of the *Journal of Archaeologica Science*, Elsevier and Society for Archaeological Science, 2014;
- [77] EYRec Creative Invention Award, Paun Putra, University of Malaysia Perlis, 2014;
- [78] World Invention Intellectual Property Association Award (WIIPA - 2 prix), i-ENVEX 2014;
- [79] Korea University Invention Association Award (KUIA), i-ENVEX 2014;
- [80] Association of Young Innovator and Scientist Indonesia Award (AYISI), i-ENVEX 2014;
- [81] WIIPA Honor of Invention, Best International Exhibit, Zagreb, 2014;
- [82] Volga State University of Technology Award, Zagreb, 2014;
- [83] Distinctia In Memoriam Prof.dr.ing. Ioan POP, Technical University of Cluj-Napoca, 2014.
- [84] Speial Prize – NRCT (for Poligraph with integrated ayatem and testing method) – Bangkok, 2015;
- [85] Leading Innovation Award – IIPNF (for Artificial Halochamber for Multiple Users) – Bangkok, 2015;
- [86] Certificate of Award - WIIPA (for Artificial Halochamber for Multiple Users) – Bangkok, 2015;
- [87] Honor of Invention – Macao Innovation and Invention Association, Bangkok, 2015;
- [88] Honor of Invention – WIIPA, Bangkok, 2015;
- [89] Medal of Industrial Chemistry Research Institute of Warsaw, Krakow, 2015;
- [90] Special Award, Iraqi Association of Inventors (ISI), Chisinau, 2015;
- [91] Special Award, Toronto International Society of Innovation and Advnced Skills (TISIAS), Chisinau, 2015;
- [92] Special Award, Institutul de Genetica, Fiziologie si Protectia Plantelor al Academiei de Stiinte din Moldova, Chisinau, 2015;
- [93] The Gran Prix of the National Exhibition of Inventions INOVA – BUDI UZOR 2015, Saudi Arabia;
- [94] Awards the Project of the Volga State University of Techology, INOVA – BUDI UZOR, Russia Federation;
- [95] Prize Outstanding Innovation Award - Thai Innovation and Invention Promotion Network, Warsaw, 2015;
- [96] Medal Marie Curie for invention in Chemistry field, IWIS – International Warsaw Invention Show, 2015;
- [97] **Special Priz**, President of Iraq Inventors Association, Iasi, 2015;
- [98] A Special Award at the Kaohsiung KIDE Award Excellent Invention, Korea University Inventoin Association, Thailand, 2015;
- [99] Thailand Award for Best International Invention – The National Research Council of Thailand, Thailand, 2015;
- [100] Special Medal of China Association of Productivity Promotion Centers, Istanbul, 2016;
- [101] Premiul Special al Universitatii Lucian BLAGA din Sibiu, Cluj-Napoca, 2016;
- [102] Special Award The Egyptian Inventors Syndicate for the Outstanding Performance and display Commenced by the Idea with the title of Method for determining Normal Range of Variation of Equilibrium Moisture Content, Cairo, 2016;
- [103] Leading Innovation Award, I-ENVEX, Perlis - Malaysia 2016;
- [104] Excellent Award – In Recognition of Your Outstanding Achievement and Tireless Effort in Inventing of Excellent Invention, Perlis - Malaysia 2016;
- [105] WIPA – Honor of Invention, 9th International Exhibition of Economic and Scientific Innovation -INTARG, 13-15 Jun. 2016, Katowice, Poland,
- [106] International Innovation Award of the Polish Academy of Science, Institute of Genetics and Animal Breeding, ITARG - Katowice, 2016.
- [107] Diploma International Exhibition Research and New Technologies, IRTI – Iranian Top Inventors, ITARG - Katowice, 2016.
- [108] Award of Iraqi Forum of Inventors – EUROINVENT, 2016;
- [109] Special Prize of Lucian Blaga University of Sibiu – EUROINVENT, 2016;
- [110] Premiul AGEPI, Chisinau, – EUROINVENT, 2016;
- [111] Premiul Special al Institutului de Genetica, Fiziologie si Protectia Plantelor, ASM, Chisinau, – EUROINVENT, 2016;
- [112] Special Award TUMMIAD (Turkish Inventors Association), INOVA, Zagreb, 2016;
- [113] Special Award INNOPA/TH/SA/349/II/2017, Thailand, 2017;
- [114] WIIPA Honor of Invention, Bankok Interantional Trade and Exhibition, Thailand, 2017;
- [115] Philippine Gold Award for Invention. Manila Young Inventors Association, Bankok Interantional Trade and Exhibition, Thailand, 2017;
- [116] HAG-Award the German Special Prize, KIT-HAG Invention Association Germany (for Entire Activity), Istanbul International Invention Fair, ISIF'17, Istanbul, 2017;
- [117] NASR Award National Association for Science and Research, Istanbul International Invention Fair, ISIF'17, Istanbul, 2017;
- [118] Special Award of the Egyptian Society for Women & Youth Inventor & the Egyptian Inventors Syndicate, Cairo, 2017;
- [119] Special Honor of Invention – TISIAS, Toronto, 2017;



- [120] Thailand Award for the Best International Invention (for the excellent invention) – National Research Council of Thailand, Warsaw, 2017;
- [121] Award of WIA NOVA, Bosnia Herzegovina, Warsaw, 2017;
- [122] FIRI Award for the Best invention, Warsaw, 2017;
- [123] Awards Innovation Award, National Council of Rectors (CNR), Inventica Iasi, 2017;
- [124] The Politehnica Bucharest Innovation Award, Inventica Iasi, 2017;
- [125] CAI AWARD Invention and Innovation, IMPEX Pittsburgh, 2017,
- [126] Pittsburgh Award of Merit, IMPEX Pittsburgh, 2017,
- [127] EUROINVENT Order Comandor for Invention Merit, Iasi, 2017;
- [128] Special Prix, NOVA Croatia, Iasi, 2017;
- [129] Jubilee Medal of Science Academy of Moldova, Iasi, 2017;
- [130] Special Prix of Chemistry Institute of Science Academy of Moldova, Iasi, 2017;
- [131] Special Award of the Egyptian Society for Women & Youth Inventor & the Egyptian Inventors Syndicate, Cairo, 2017;
- [132] Titlul Academic Senator de Onoare Academia Militara Terestra Nicolae Balcescu Sibiu, 2018;
- [133] Diploma de Excelență cu Mențiune Specială Cadet Innova Sibiu 2018;
- [134] Special Prize for the best invention, Oil and Gas National Research Institute Warszawa, Polonia, Cluj Napoca 2018;
- [135] The Politehnica Innovation Award –Bucharest, Cluj Napoca 2018;
- [136] Special Award, INNOPA TH/SA/40/2018, Bangkok, 2018;
- [137] Special Award, Association of Polish Inventors and Rationalizers, Bangkok, 2018;
- [138] Sri Lanka Gold Award for Invention, Bangkok, 2018.
- [139] Special Prix, NOVA Croatia, Iasi, 2018.

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

**Holder of Chemistry Course** (General Chemistry, Descriptive Inorganic and Organic Chemistry, Redox Systems in the Energy Conversion, Invents in Chemistry, Metals Chemistry, Structure and Reactivity of the Compounds),

**Holder of Conservation Science** (Scientific Investigation of Works of Art, Science of Materials for Restoring and Keeping of the Cultural National Values Art, Etiopatologie of Works of Art Metal Restoration, Photography and Photo-grammetry; Conventional Representation in Restoration (Bachelor Degree and Master Degree in Conservation of Art; Master Degree in Conservation Old Constructions); Ecology of the Sport Systems (Master Degree in Sport),

**Holder of Environmental Science** (Ph.D. School).

**Prof.univ.dr. Ion SANDU**  
Romanian Academy of Scientists  
Doctoral School of Geosciences,  
Specialization in Environmental Science  
Alexandru Ioan Cuza University of Iași  
Romanian Inventors Forum

### List of publications

*1373 titles (86 Books + 1128 scientific papers/  
(391 in ISI journals) + 159 Patents)*

**Books 87 (Treatises - 2, Monographs - 32, University Courses - 5,  
Edited volumes - 27, Book chapters - 21) 25 printed abroad and 64 printed in Romania**

#### A. Treaties and monographs (34)

1. A.V. SANDU, **I. SANDU**, **Ecologie și management de mediu**, Ed. PIM, Iasi (ISBN 978-606-13-4582-3), 2018.
2. **I. SANDU**, **Itinerar stiintific si portrete electiv**e, vol. II, Ed. Universitatii „Al I. Cuza’ Iasi, (ISSN 2067-533X), 2017, 698 p.;
3. **I. SANDU**, M.A. CRETU, I.G. SANDU, V. VASILACHE, A.V. SANDU, G. MARUSIC, **Implicarea ceramicilor in potabilizarea apelor de suprafata si subterane**, Ed. Universitatii Alexandru Ioan Cuza Iași (ISBN 978-606-714-451-2 ), 2017, 250p.
4. **I. SANDU**, M. CANACHE, A.V. SANDU, V. VASILACHE, **Aerosolii salini în dezvoltarea copiilor**, Ed. Universitatii Alexandru Ioan Cuza Iași (ISBN: 978-606-714-099-6), 2015, 242p.;
5. **I. SANDU**, C. ȘTIRBU, A.V. SANDU, C. ȘTIRBU, **Aerosolii salini în îmbunătățirea performanțelor sportivilor**, Ed. Universitatii Alexandru Ioan Cuza Iași (ISBN: 978-606-714-179-5), 2015, 330p.;
6. **I. SANDU**, **Itinerar stiintific si portrete electiv**e, vol. I, Ed. Universitatii „Al I. Cuza’ Iasi, (ISSN 2067-2438), 2012, 326 p.;
7. **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.;
8. **I. SANDU**, V. VASILACHE, **Conservarea amprentelor formă și a urmelor materiale**, Ed. AIT Laboratory Bucuresti (ISBN 978-606-8363-09), 2011, 330 p.;
9. G.DROCHIOIU, **I. SANDU**, **Bazele cercetării in domeniul stiintelor naturii**, Ed. AIT Laboratory Bucuresti, (ISBN 978-606-8363-09), 2011, 264 p.;
10. **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.;
11. 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.;
12. 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.;
13. **I. SANDU**, M. CHIRAZI, **Ecology of Sports Systems**, Ed. Performantica (ISBN 978-973-703-688-3), Iași, 2010, 274 p.;
14. **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.;
15. 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.;
16. 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.;
17. **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.;
18. **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.;
19. **I. SANDU**, **Modern Aspects Concerning the Conservation of Cultural Heritage**, Vol. V. Identification of Painting Materials, Ed. Performantica, (ISBN 973-730-389-9 și 973-730-048-3) Iași, 2007, 780 p.;

20. **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.;
21. 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.;
22. 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.;
23. **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.;
24. **I. SANDU**, **Nomenclature of the Conservation Cultural Heritage**, Ed. Performantica (ISBN 973-7994-90-6), Iași, 2004, 164 p.;
25. **I. SANDU**, I.C.A. SANDU, **Conservation and Restauration Chemistry**, Vol. I, Ed. Corson (ISBN 973-8225-27-1), Iași, 2002, 1058 p.;
26. **I. SANDU**, I.C.A. SANDU, **Conservation and Restauration Chemistry**, Vol. II, Ed. Corson (ISBN 973-8225-27-2), Iași, 2002, 668 p.;
27. **I. SANDU**, P. ATIYM, I. C. A. SANDU, **Complements of Structural Biochemistry**, Ed. Dacia, Cluj-Napoca, (ISBN 973-35-1414-4), 2002, 360 p.;
28. **I. SANDU**, I.C.A. SANDU, I.G. SANDU, **Colorimetry in Art**, Ed. Corson, Iași, (ISBN 973-8225-28-0), 2002, 430 p.;
29. **I. SANDU**, A. DIMA, I.G. SANDU, **Restauration and Conservation of Metallic Artefacts**, Ed. Corson, Iași, (ISBN 973-8225-24-8), 2002, 666 p.;
30. 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.;
31. P. van SAANEN, **I. SANDU**, I.C.A.SANDU, **Biochemistry Compendium**, Vol. I, Ed. Corson, Iași, (ISBN 973-8225-13-2), 2000, 506 p.;
32. **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.;
33. **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.;
34. A.GULEA, **I. SANDU**, M.POPOV, **Practical Works of Inorganic Chemistry**, Ed. Știința, (ISBN 5-376-01838-5), Kishinev, 1994, 400 p.;

#### B. University Courses (5):

- I. SANDU**, A. GULEA, **Legătura chimică. Structura și proprietățile moleculelor**, Ed. Universității de Stat din Chișinău, 1995, 240 p., FIN =  $2,40 \times 0,2 / 2 = 0,240$ ;
- I. SANDU**, S. ȘOVA, A. GULEA, **Structura atomului**, Ed. Universității de Stat din Chișinău, 1994, 148 p., FIN =  $1,48 \times 0,2 / 3 = 0,098$ ;
- 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 =  $3,08 \times 0,1 / 3 = 0,103$ ;
- N. CALU, I. BERDAN, **I. SANDU**, **Chimie anorganică. Funcția metalică**, Vol. II, Ed. Institutului Politehnic "Gh.Asachi" Iași, 1988, 280 p., FIN =  $2,80 \times 0,1 / 3 = 0,093$ ;
- 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. Proceedings or publisher's or coordinator's books (27):

1. A.V. SANDU, M.M.A.B. ABDULLAH, P. VIZUREANU, C.M.R. GHAZALI, **I. SANDU** (Editors), **EUROINVENT ISCIR 2020, IOP Conf. Series: Materials Science and Engineering 374** (2020) 011001 doi:10.1088/1757-899X/374/1/011001, FIN =  $2.72 \times 0,05 / 5 = 0.272$ ;
2. A.V. SANDU, M.M.A.B. ABDULLAH, P. VIZUREANU, C.M.R.GHAZALI, **I. SANDU** (Editors), **EUROINVENT ISCIR 2020, Abstract Book: International Conference on Innovative Research**, Ed. Romanian Inventors Forum (ISSN Print 2601-4580 ISSN On-line 2601-4599), Iasi, 2020, 104p. FIN =  $1.72 \times 0,05 / 5 = 0.172$ ;
3. I.G. SANDU, **I. SANDU**, A.S. CIORNEI (editors), **EUROINVENT - INTERNATIONAL WORKSHOP, Scientific, Technological and Innovative Research in Current European Context**, 12th edition, 21 May 2020, Iasi, **Topics: Scientific Inquiries through Elective Elaborations**, Ed. PIM, 2020, 496p.

4. A.V. SANDU, M.M.A.B. ABDULLAH, P. VIZUREANU, C.M.R. GHAZALI, **I. SANDU** (Editors), **EUROINVENT ISCIR 2019, IOP Conf. Series: Materials Science and Engineering 374** (2019) 011001 doi:10.1088/1757-899X/374/1/011001, FIN =  $2.72 \times 0,05/5 = 0.272$ ;
5. A.V. SANDU, M.M.A.B. ABDULLAH, P. VIZUREANU, C.M.R. GHAZALI, **I. SANDU** (Editors), **EUROINVENT ISCIR 2019, Abstract Book: International Conference on Innovative Research**, Ed. Romanian Inventors Forum (ISSN Print 2601-4580 ISSN On-line 2601-4599), Iasi, 2019, 162p. FIN =  $1.72 \times 0,05/5 = 0.172$ ;
6. I.G. SANDU, **I. SANDU**, I.C. NEGRU, A.S. CIORNEI (editors), **EUROINVENT - INTERNATIONAL WORKSHOP, Scientific, Technological and Innovative Research in Current European Context**, 11th edition, 16 May 2019, Iasi, **Topics: Scientific Inquiries through Elective Elaborations**, Ed. PIM, 2019, 446p.
7. A.V. SANDU, M.M.A.B. ABDULLAH, P. VIZUREANU, C.M.R. GHAZALI, **I. SANDU** (Editors), **EUROINVENT ISCIR 2018, IOP Conf. Series: Materials Science and Engineering 374** (2018) 011001 doi:10.1088/1757-899X/374/1/011001, FIN =  $2.42 \times 0,05/5 = 0.242$ ;
8. A.V. SANDU, M.M.A.B. ABDULLAH, P. VIZUREANU, C.M.R. GHAZALI, **I. SANDU** (Editors), **EUROINVENT ISCIR 2018, Abstract Book: International Conference on Innovative Research**, Ed. Romanian Inventors Forum (ISSN Print 2601-4580 ISSN On-line 2601-4599), Iasi, 2018, 162p. FIN =  $1.62 \times 0,05/5 = 0.162$ ;
9. I.G. SANDU, **I. SANDU**, **EUROINVENT - INTERNATIONAL WORKSHOP, Scientific, Technological and Innovative Research in Current European Context**, 10th edition, 17 May 2018, Iasi, **Topics: Cultural Heritage Conservation – A New Era, Intellectual & Industrial Property**, Ed. PIM, 2018, 276p.
10. A.V. SANDU, M.M.A.B. ABDULLAH, P. VIZUREANU, C.M.R. GHAZALI, **I. SANDU** (Editors), **IOP Conference Series: Materials Science and Engineering** (ISSN print 1757-899X), vol. 136, 2017, 310p. FIN =  $3.1 \times 0,05/5 = 0.31$ ;
11. A.V. SANDU, M.M.A.B. ABDULLAH, P. VIZUREANU, C.M.R. GHAZALI, **I. SANDU** (Editors), **Conference Abstract Book: International Conference on Innovative Research**, Ed. StudIS (ISBN 978-606-775-624-1), Iasi, 2017, 157p. FIN =  $1.57 \times 0,05/5 = 0.157$ ;
12. **I. SANDU** (Chairman), **Scientific, Technological and Innovative Research in Current European Context (Euroinvent, International Workshop)**, Ed. StudIS, Iasi, (ISBN: 978-606-775-211-3), 2016, 163p. FIN =  $16,3 \times 0,05/1 = 8.15$ ;
13. A.V. SANDU, M.M.A.B. ABDULLAH, P. VIZUREANU, N. MAHMED, **I. SANDU** (Editors), **IOP Conference Series: Materials Science and Engineering** (ISSN print 1757-899X), vol. 130, 2016, 310p. FIN =  $3.1 \times 0,05/5 = 0.31$ ;
14. A.V. SANDU, M.M.A.B. ABDULLAH, P. VIZUREANU, Z. YANYA, **I. SANDU** (Editors), **Innovative Materials and Engineering Research**, Ed. Trans Tech Publications, Switzerland (ISBN-13: 973-3-03835-559-5)/ **KEY ENGINEERING MATERIALS** (ISSN print 1013-9826, ISSN cd 1662-9809, ISSN web 1662-9795), vol. 660, 2015, 410p. (<http://www.ttp.net/978-3-03835-559-5.html>), FIN =  $4.1 \times 0,05/5 = 0.41$ ;
15. **I. SANDU** (Chairman), **Scientific, Technological and Innovative Research in Current European Context (Euroinvent, International Workshop)**, Ed. PIM, Iasi, (ISBN: 978-606-13-2474-3), 2015, 90p. FIN =  $0.9 \times 0,05/1 = 0.45$ ;
16. A.V. SANDU, M.M.A.B. ABDULLAH, P. VIZUREANU, Z. YANYA, **I. SANDU**, (Editors), **ICIR 2015, International Conference on Innovative Research**, Ed. PIM, Iasi, (ISBN: 978-606-13-2474-5), 2015, 108p. FIN =  $1.08 \times 0,05/5 = 0.011$ ;
17. **I. SANDU** (editor), **Scientific, Technological and Innovative Research in Current European Context (Euroinvent, International Workshop)**, Alexandru Ioan Cuza University Publishing House, (ISBN: 978-606-714-037-8), 2014, 318p. FIN =  $3.18 \times 0,05/1 = 1.59$ ;
18. **I. SANDU** (editor), **Scientific, Technological and Innovative Research in Current European Context (Euroinvent, International Workshop)**, Alexandru Ioan Cuza University Publishing House, (ISBN: 978-973-703-891-3), 2013, 240p. FIN =  $2.40 \times 0,05/1 = 1,200$ ;
19. **I. SANDU** (editor), **Scientific Creativity in European Context**, Alexandru Ioan Cuza University Publishing House (ISBN 978-973-703-759-6), Iasi, 2012, 153p., (<http://www.eudirect.ro/euroinvent/cat/w2012.pdf>), FIN =  $1.53 \times 0,05/1 = 0,762$ ;
20. **I. SANDU** (editor), **Scientific Creativity in European Context**, Ed. Tehnopress, (ISBN 978-973-702-851-8), Iasi, 2011, pp. 195-324 (128 pagini) (<http://www.eudirect.ro/euroinvent/cat/w2011.pdf>), FIN =  $1.28 \times 0,05/1 = 0,64$ ;
21. **I. SANDU** (editor), **Romanian Creativity in European Context**, Ed. Tehnopress, (ISBN 978-973-702-769-6), Iași, 2010, 230 p., FIN =  $2,30 \times 0,05/1 = 1,15$ ;
22. **I. SANDU** (editor), **Romanian Creativity in European Context**, Ed. Tehnopress, (ISBN 978-973-702-641-5), Iași, 2009, 195 p., FIN =  $1,95 \times 0,05/1 = 0,09$ ;

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327. **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*, **REVISTA DE CHIMIE**, București (ISSN 0034 -7752), vol. 60, 10, (2009), p. 1012-1020; 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 =  $(0.552 + 0.416) / 5 = 0,194$ . **(Article Influence Score = 0,135).**
328. **I. SANDU**, N. VRÎNCEANU, D. COMAN, *Study of surface modifications of wool fabrics by UV +laser irradiation treatment*, **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 =  $(0,552 + 0,256) / 3 = 0,269$ . **(Article Influence Score = 0,135).**
329. R. GRADINARU, S.O. VALU, St. POSTOLACHE, C.C. PAVEL, **I. SANDU**, K. POPA, *On The Influence of ETS-10 Porozity and Surface Properties in Retention of Some Nanoions and Nanomolecules*, **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 =  $(0,885 + 0,561) / 6 = 0,241$ . **(Article Influence Score = 0,158).**
330. V. VASILACHE, S. GUTT, Gh. GUTT, Tr. VASILACHE, C. FILOTE, **I. SANDU**, *Studies of hardnes for the electrodeposited nikel from watts baths with addition of polyvinyl pyrrolidone (PVP)*, **REVUE ROUMAINE DE CHIMIE**, București (ISSN 0035-3930), vol. 54, 3, (2009), pp. 243 - 247; Impact Factor = 0,263, Author Factor = **0,044. (Article Influence Score = 0,202).**
331. I.C.A. SANDU, S. BRACCI, **I. SANDU**, M. LOBERFARO, *Integrated analytical study for authentication of five russian icons (XVII-XVIII Century)*, **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 =  $(1.850 + 0.854) / 4 = 0,676$ . **(Article Influence Score = 0,659).**
332. 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. (Article Influence Score = 0,000).**
333. 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*, **REVISTA DE CHIMIE**, București (ISSN 0034 -7752), vol. 60, 4, (2009), p. 332-336; Impact Factor = 0,552, Author Factor = **0,092. (Article Influence Score = 0,135).**
334. 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 techiques*, **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 =  $(0,206 + 0,110) = 0,316$ . **(Article Influence Score = 0,135).**
335. V. VASILACHE, Gh. GUTT, Tr. VASILACHE, **I. SANDU**, *Studies concerning nickel electrodeposition from Watts bath with addition of polyvinyl pyrrolidone (PVP)*, **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 60, 1, (2009), p. 15-19; Impact Factor = 0,552, Author Factor = **0,138. (Article Influence Score = 0,135).**
336. G. CIOBANU, G. CARJA, O.CIOBANU, **I. SANDU**, A.V. SANDU, *SEM and EDX studies of bioactive hydroxyapatite coatings on titanium implants*, **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 (Macromoleculare Bioeciencia) =  $16.043 \times 0.3 = 4,813$ , Author factor =  $(1,651 + 4,813) / 5 = 1,293$ . **(Article Influence Score = 0,928).**

337. N. VRÎNCEANU, D. COMAN, I. SANDU, A. GRIGORIU, *Surface microstructuring of polyester fabrics by UV excimer laser irradiation*, **ANNALS of DAAAM** (ISSN 1726-9679), Viena, 2008, p. 1511-1512; Impact Factor = 0, Author Factor = 0.000. **(Article Influence Score = 0,000)**.
338. N. VRÎNCEANU, I. SANDU, I. STEFANUȚA, D. VLAD, *Studies on the adherence of the thermoglued textile ensembles-method and instrument used*, **ANNALS of DAAAM** (ISSN 1726-9679), Viena, 2008, p. 1513-1514; Impact Factor = 0, Author Factor = 0.00. **(Article Influence Score = 0,000)**.
339. 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 = 0.000. **(Article Influence Score = 0,000)**.
340. 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*, **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. **(Article Influence Score = 0,311)**.
341. 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*", **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS (J.O.A.M.)**, Bucharest (ISSN 1454 - 4164), 10, (12) 2008, pp. 3512-3516, Impact Factor = 0,827, Cited factor = 2,644(Carbohydrate Polymers) + 2,644 x 0,3 = 0,793, Author factor = (0,827+0,793)/11 = 0,147. **(Article Influence Score = 0,311)**.
342. 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*, **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 59, 9, (2008), pp. 1052-1056; Impact Factor = 0,389, Author Factor = 0,078 (citat in Annals of Chemistry, Ovidius University of Constanta). **(Article Influence Score = 0,135)**.
343. 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*, **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 59, 8 (2008), pp. 920 - 925; Impact Factor = 0,389, Author Factor = 0,065. **(Article Influence Score = 0,135)**.
344. 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*, **CORROSION ENGINEERING SCIENCE AND TECHNOLOGY**, Maney Publishing (ISSN 1478-422X), vol. 43, 3, (2008), pp. 256-266, Impact Factor = 0,553, Impact, Cited Factor = 0,639 (Material and Corrosion) + 0,896(Crystal Research and Technology) = 1,535 x 0,3 = 0,461, Author Factor = 0,092 + 0,077 = 0,169. **(Article Influence Score = 0,964)**.
345. 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* **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 59, 8, (2008), pp. 855-866; Impact Factor = 0,389, Author Factor = 0,078. **(Article Influence Score = 0,135)**.
346. G. DROCHIOIU, K. POPA, D. HUMELNICU, M. MURARIU, I. SANDU, A. CECAL, *Comparison of various sensitive and selective spectrophotometric assays of environmental cyanide*, **TOXICOLOGICAL & ENVIRONMENTAL CHEMISTRY**, Taylor & Francis (ISSN 0277-2248), vol. 90, 2, (2008), pp. 221 - 235; Impact Factor = 0,00, Cited Factor = 2,00 (Journal of Microbiological Methods) + 0,00 ( ) = 2,00 x 0,3 = 0,600, Author factor = 0,100 + 0,00 = 0,100. **(Article Influence Score = 0,000)**.
347. 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*, **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 59, 4 (2008), 384-387. **(Article Influence Score = 0,135)**. Impact Factor = 0,389, Cited Factor = 0,389(Rev.Chim.) = 0,389 x 0,3 = 0,1167, Author Factor = 0,068 + 0,1167 = 0,185;
348. I. CARCEA, C. ROMAN, A.V. SANDU, R. CHELARIU, I. SANDU, „Structure and composition disturbances in certain aluminium bronzes”, **METALURGIA INTERNATIONAL** (ISSN 1582-2214), vol. XIII, 3 (2008), p. 14-20; Impact Factor = 0, Author Factor = 0.000. **(Article Influence Score = 0,000)**.

349. **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*, **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 58, nr. 10, (2007), p. 879 – 886, Impact Factor = 0,278, Author Factor = **0,070**. **(Article Influence Score = 0,135)**.
350. 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*, **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 x 0,3 = 1,117, Author Factor = 0,095 + 0.160 = **0,255**. **(Article Influence Score = 0,183)**.
351. N. SULITANU, C. PÎRGHIE, **I. SANDU**, *Effect of ultrasonication on the electrolytic growth of nanocrystalline Ni films*, **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**. **(Article Influence Score = 0,135)**.
352. 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)*, **KOORDINATSIONNAYA KHIMIYA**, Moskva, (ISSN 1070-3284), vol. 32, nr. 11, (2006), pp. 841-847, Impact Factor = 0,564, Author Factor = **0,094**. **(Article Influence Score = 0,215)**.
353. А.С. КОТОВАЯ, С.Г. ШОКА, Ю.А. СИМОНОВ, Т. РОШУ, **И. САНДУ**, А.П. ГУЛЯ, *Строение и свойства новых кристаллических форм трис(2-аминоэтанолато-О,N)кобальта(III)*, **Координационная химия (Koordinatsionnaya khimiya)**, 32, no.11, 2006, pp. 874-881. Impact Factor = 0,564, Author Factor = **0,094**. **(Article Influence Score = 0,215)**.
354. 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*, **REVISTA DE CHIMIE**, București (ISSN 0034-7752), vol. 57, nr.8 (2006), pp. 796 – 803, Impact Factor = 0,308, Author Factor = **0,103**. **(Article Influence Score = 0,135)**.
355. 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*, **REVISTA DE CHIMIE**, București, (ISSN 0034-7752), vol. 56, nr. 10 (2005), pp. 981-994, Impact Factor = 0,308, Author Factor = **0,062**. **(Article Influence Score = 0,135)**.
356. **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*, **REVISTA DE CHIMIE**, București, (ISSN 0034-7752), vol. 56, nr. 8 (2005), pp. 805-809, Impact Factor = 0,308, Author Factor = **0,062** (C.A. 12345W/145/2006). **(Article Influence Score = 0,135)**.
357. **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*, **REVISTA DE CHIMIE**, București, (ISSN 0034-7752), vol.55, nr. 12 (2004), pp. 975-982; Impact Factor = 0,308, Author Factor = **0,051** (C.A. 435645r/145/2006). **(Article Influence Score = 0,135)**.
358. **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*, **REVISTA DE CHIMIE**, București, (ISSN 0034-7752), vol.55, nr. 10 (2004), pp.791-797, Impact Factor = 0,308, Author Factor = 0,051 (C.A. 435631H). **(Article Influence Score = 0,135)**.
359. **I. SANDU**, C. PASCU, I.G. SANDU, G. CIOBANU, V. VASILE, O. CIOBANU, *The obtaining and characterization of NaCl nanocrystalline dispersions for saline – type therapeutical media. I. Theoretical aspects*, **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). **(ARTICLE INFLUENCE SCORE = 0,135)**.
360. N. SULIȚANU, **I. SANDU**, I.G. SANDU, *Role of thiourea additive in the electrodeposition process of nanocrystalline nickel and iron thin films*, **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). **(ARTICLE INFLUENCE SCORE = 0,135)**.
361. N. SULIȚANU, **I. SANDU**, *Synthesis by chemical reduction method, microstructure and magnetic behaviour of ultra-fine amorphous powders in (Fe, Co, Ni)-B systems*, **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). **(Article Influence Score = 0,135)**.
362. I.C.A. SANDU, M. BREBU, C. LUCA, I. SANDU, C. VASILE, *Thermogravimetric study on the ageing of lime wood supports of old paintings*, **POLYMER DEGRADATION AND STABILITY** (Elsevier), Brighton, (ISSN: 0141-3910), 80, 1 (2003), pp. 83-91, Impact Factor = 1,405, Author Factor = **0,281** (C.A. 35977q). **(Article Influence Score = 3,193)**.
363. 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*, **REVISTA DE CHIMIE**, București, (ISSN 0034-7752), 53, 9, 2002, p. 607-616, Impact Factor = 0,281, Author Factor = **0,056** (C.A. 368257t). **(Article Influence Score = 0,135)**.
364. 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 restoration, presevation processes. II. A chromatic analysis*, **REVISTA DE CHIMIE**, București, (ISSN 0034-7752), 52, 9, 2001, pp. 485-491, Impact Factor = 0,281, Author Factor = **0,056**. **(Article Influence Score = 0,135)**.
365. 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*, **REVISTA DE CHIMIE**, București, (ISSN 0034-7752), 52, 7-8, 2001, pp. 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**. **(Article Influence Score = 0,135)**.
366. 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*, **REVISTA DE CHIMIE**, București, (ISSN 0034-7752), 52, 1-2, 2001, pp. 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**. **(Article Influence Score = 0,135)**.
367. 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*, **REVISTA DE CHIMIE**, București, (ISSN 0034-7752), 51, 7, 2000, pp. 532-541, Impact Factor = 0,281, Author Factor = **0,094**. **(Article Influence Score = 0,135)**.
368. I.C.A. SANDU, C. LUCA, I. SANDU, *A study on the paintings cloth-supports ageing degradation*, **REVISTA DE CHIMIE**, București, (ISSN 0034-7752), vol.50, nr.12, 1999, pp. 902-908, Impact Factor = 0,281, Author Factor = **0,094**. **(Article Influence Score = 0,135)**.
369. 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*, **REVISTA DE CHIMIE**, București, (ISSN 0034-7752), București, 49, nr.11, (1998), pp.756-768, Impact Factor = 0,281, Author Factor = **0,094**. **(Article Influence Score = 0,135)**.
370. 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*, **REVISTA DE CHIMIE**, București, (ISSN 0034-7752), 49, nr.10, (1998), pp. 673-681, Impact Factor = 0,281, Author Factor = **0,047**. **(Article Influence Score = 0,135)**.
371. 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*, **REVISTA DE CHIMIE**, Bucuresti, (ISSN 0034-7752), 49, nr.6, (1998), pp. 401- 408, Impact Factor = 0,281, Author Factor = **0,070**. **(Article Influence Score = 0,135)**.
372. 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*, **REVISTA DE CHIMIE**, Bucuresti, (ISSN 0034-7752), 49, nr.4, (1998), pp. 249-260, Impact Factor = 0,281, Author Factor = **0,070**. **(Article Influence Score = 0,135)**.
373. A.GULEA, G.NOVIKI, G.TIMKO, I. SANDU, *Synthesis and Structure of  $\square_3$ -oxocomplex/Co<sub>3</sub>(Piv)<sub>6</sub>(gamma-Pic)<sub>3</sub>/Piv.6HPiv*, **JOURNAL OF COORDINATION CHEMISTRY**, New York, vol. 20, no. 4, (1994), pp. 267-271, Impact Factor = **0,863**, Author Factor = **0,216**. **(Article Influence Score = 0,215)**.
374. A.GULEA, G.NOVIKI, G.TIMKO, I. SANDU, *Sintez I stroenie trehiadernovo  $\square_3$ -oxocomplexa/Co<sub>3</sub>(Piv)<sub>6</sub>(gamma-Pic)<sub>3</sub>/Piv.6HPiv*, **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.) =  $3,524 \times 0,3 = 1,058$ , Author Factor =  $0,290 + 0,265 = 0,555$ . (Article Influence Score = 0,215).
375. A.GULEA, G. NOVITKI, 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*, **JURNAL OF COORDINATION CHEMISTRY**, New York, Vol.19, no.3, (1993), pp. 212-217, Impact Factor = 0,863, Author Factor = **0,216**. (Article Influence Score = 0,215).
376. A.GULEA, G. NOVITKI, S. SOVA, M. MASUS, **I. SANDU**, *Primenenie metodov IAMR spektropii i rentghenostrukturnovo analiza dlea izucenia ctroenia nekotarih 3-dicetonotih kompleksob kobalta (II)*, **KOORDINATSIONNAYA KHIMIYA**, Moskva, (ISSN 1070-3284) tom. Vol.19, no. 3, (1993), pp. 227-232, Impact Factor = **1,160**, Author Factor =  $(1,160 + 3,58)/5 = 0,212$ . (Article Influence Score = 0,215).
377. A. GULEA, G. NOVITKI, 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*, **REVUE ROUMAINE DE CHIMIE**, Bucuresti, (ISSN 0035-3930), vol. 38, no.5, (1993), pp. 505-514, Impact Factor = 0,286, Author Factor = **0,072**. (Article Influence Score = 0,202).
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