

**Viorica VASILACHE – CS III****Institutul de Cercetări Interdisciplinare – Departamentul Științe**

ANEXA 1

FIȘA DE EVALUARE GENERALĂ A STANDARDELOR UNIVERSITĂȚII

DESCRIPTORI	PUNCTAJE ACORDATE
I. Articole științifice publicate <i>in extenso</i> în reviste cotate <i>Web of Science</i> cu factor de impact	(60 puncte x factor de impact + 25) / număr autori
1. I.G. SANDU, V. VASILACHE, A.V. SANDU, M. CHIRAZI, C. HONCERIU, R.C. DABIJA, A. VLADESCU, C.M. COTRUT, I. SANDU, The Role of Saline Aerosols in the Prevention and Therapy of Cardio-respiratory and Osteo-muscular Afflictions, REVISTA DE CHIMIE , 69, 10, 2018, pp. 2826-2832, Impact Factor = 1,412	12.19
2. M.E. FORTUNĂ V. VASILACHE, M. IGNAT, M. SILION, T. VICOL, X. PATRAȘ, I. MIRON, A. LOBIUC, Elemental and macromolecular modifications in Triticum aestivum L. plantlets under different cultivation conditions, PLoS One , Septembrie 2018, doi.org/10.1371/journal.pone.0202441, (autor corespondent), Impact Factor = 2.766 ;	23.87
3. A. LOBIUC, V. VASILACHE, O. PINTILIE, T. STOLERU, M. BURDUCEA, M. OROIAN, M.M. ZAMFIRACHE, Blue and Red LED Illumination Improves Growth and Bioactive Compounds Contents in Acyanic and Cyanic Ocimum basilicum L. Microgreens, Molecules , 2017, 22, 2111; doi:10.3390/molecules22122111, (autor corespondent), Impact Factor = 3.098 ;	30.13
4. P. SPIRIDON, I.C.A. SANDU, L. NICA, V. VASILACHE, I. SANDU, Archaeometric and Chemometric Studies Involved in the Authentication of Old Heritage Artefacts I. Contributions of the Iasi school of Conservation Science, REVISTA DE CHIMIE , 68, 9, 2017, pp. 2018-2027, (autor corespondent), Impact Factor = 1,412 ;	22.67
5. S.L. MARIN, G. MARDARE (BALUSESCU), M. PADURARU., C. ROMAN, I.G. SANDU, R.I. OLARIU, C. ARSENE, V. VASILACHE, Authentication and Evaluation of the Technique of Minting the Romanian Coins of the 20th Century. I, REVISTA DE CHIMIE , 68, 9, 2017, pp. 2155-2159, (autor corespondent), Impact Factor = 1,412 ,	1.72
6. P. SPIRIDON, I.C.A SANDU, L. NICA, C.T. IURCOVSCHI, D.E. COLBU, I.C. NEGRU, V. VASILACHE, R.A. CRISTACHE, I. SANDU, Archaeometric and Chemometric Studies Involved in the Authentication of Old Heritage Artefacts II. Old linden and poplar wood put into work, REVISTA DE CHIMIE , 68, 10, 2017, pp. 2422-2430, (autor corespondent), Impact	12.19



Factor = 1,412 ,	
7. V.G. VASILESCU, I. SANDU, G. NEMTOI, A.V. SANDU, V. POPESCU, V. VASILACHE , I.G. SANDU, E. VASILESCU, <i>The reactivity of Ti10Zr alloy in biological and electrochemical systems in the presence of chitosan</i> , RCS ADVANCES , 7, 2017, pp. 13919-13927, DOI: 10.1039/c7ra00231a, Impact Factor = 3.289 ,	27.79
8. I.C. NEGRU, V. VASILACHE , I. SANDU, R.I. OLARIU, P.O. TANASA, D. POTOLINCA, I.C.A. SANDU, <i>Depth Profiling of Diffraction-based Security Features in Authentic and Counterfeit Banknotes</i> , MATERIALE PLASTICE , Bucharest, 54, 2, 2017, pp. 186-189, Impact Factor = 1.248	14.27
9. D. POTOLINCA, I.C. NEGRU, V. VASILACHE , C. ARSENE, M. PADURARU, I. SANDU, <i>Forensic expertise of the paper support of counterfeit documents</i> , MATERIALE PLASTICE , Bucharest, 54, 1, 2017, pp. 41-45, Impact Factor = 1.248	16.65
10. V. PELIN, I. SANDU, S. GURLUI, M. BRINZILA, V. VASILACHE , I. G. SANDU, <i>Evaluation of the artificial aging rate through UV radiation exposure of indigenous carbonate rocks, treated with water - solvated nano-dispersions, with the interest of consolidation and the formation of a waterproof character</i> , REVISTA DE CHIMIE , (Bucharest), 67, 12, 2016, pp. 2568-2572, Impact Factor = 1.232 ;	16.49
11. V. PELIN, I. SANDU, S. GURLUI, M. BRANZILA, V. VASILACHE , E. BORS, I.G. SANDU, <i>Preliminary investigation of various old geomaterials treated with hydrophobic pellicle</i> , COLOR RESEARCH AND APPLICATION , 41, 3(SI), 2016, pp. 317-320, Impact Factor = 1,00 ;	12.14
12. V. VASILACHE , I.C.A. SANDU, S. PRUTEANU, A.T. CALDEIRA, A.E. SIMIONESCU, I. SANDU, <i>Testing the cleaning effectiveness of new ecological aqueous dispersions applied on old icons</i> , APPLIED SURFACE SCIENCE , 367, 2016, pp. 70-79, Impact Factor = 3,15 ;	35.67
13. O. PINTILIE, C. ANDRIES, A. COSMA, M. ZAHARIA, G. DROCHIOIU, V. VASILACHE , I. SANDU, <i>The Influence of Dinitrophenolic Pesticides on the Viability of Plants</i> , REVISTA DE CHIMIE , (Bucharest), 66, 9, 2015, pp. 1321-1326, Impact Factor = 0,956 ;	11.77
14. I. HUTANU, I. SANDU, A.-E. SIMIONESCU, V. VASILACHE , A.-M. BUDU, I.C.A. SANDU, <i>Study Concerning the Influence of Acrylic Consolidating Agents on Gold Gilding and Schlagmetal</i> , REVISTA DE CHIMIE , (Bucharest), 66, 9, 2015, pp. 1480-1484, Impact Factor = 0,956 ;	13.73
15. A.-M. BUDU, I. SANDU, V. VASILACHE , A.-E. SIMIONESCU, I.C.A. SANDU, <i>Effect of Human Skin Surface Lipids on Icons Painting Layer</i> , REVISTA DE CHIMIE (Bucharest), 66, 8, 2015, pp. 1212-1216, Impact Factor = 0,956 ;	16.47



16. R.A. CRISTACHE, I.C.A. SANDU, A.E. SIMIONESCU, V. VASILACHE , A.M. BUDU, I. SANDU, <i>Multi-analytical Study of the Paint Layers Used in Authentication of Icon from XIXth Century</i> , REVISTA DE CHIMIE (Bucharest) , 66, 7, 2015, pp. 1036-1039, Impact Factor = 0,956 ;	16.47
17. F.A. TENCARIU, M. ALEXIANU, V. COTIUGA, V. VASILACHE , I. SANDU, <i>Briquetage and salt cakes: An experimental approach of a prehistoric technique</i> , JOURNAL OF ARCHAEOLOGICAL SCIENCE , 59, 2015, pp. 118-131, Impact Factor = 2.196 ;	13.35
18. HUTANU, I. SANDU, V. VASILACHE , L. NICA, I.C.A. SANDU, <i>Study Concerning the Consolidation of Degraded Pictural Layer with Acrylic Binder</i> , REVISTA DE CHIMIE (Bucharest) , 66, 6, 2015, pp. 895-900, Impact Factor = 0,956 ;	16.47
19. C. ADOMNITEI, N. CORNEI, D. LUCA, I. SANDU, V. VASILACHE , M. DOBROMIR, D. MARDARE, <i>The Influence of Ni doping on the Surface Wettability of TiO₂ Thin Films</i> , JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS , 17, 5-6, 2015, pp. 889-893, Impact Factor = 0.383 ;	6.85
20. I.C.A. SANDU, M. HAYASHI, V. VASILACHE , D.G. COZMA, S. PRUTEANU, M. URMA, I. SANDU, <i>Influence of Organic Solvents and Dispersions on Wooden Supports of Paintings</i> , REVISTA DE CHIMIE (Bucharest) , 66, 4, 2015, pp. 587-595, Impact Factor = 0,956 ;	11.77
21. R.A. CRISTACHE, I.C.A. SANDU, A.M. BUDU, V. VASILACHE , I. SANDU, <i>Multi-analytical study of an ancient icon on wooden panel</i> , REVISTA DE CHIMIE (Bucharest) , 66, 3, 2015, pp. 348-352, Impact Factor = 0,956 ;	16.47
22. I. SANDU, R.I. OLARIU, I.G. SANDU, C. STIRBU, C. PASCU, V. VASILACHE , D. VIONE, C. ARSENE, <i>Investigation of the dynamics and kinetics involved in saline aerosol generation under air erosion of pure and contaminated halide salt</i> , JOURNAL OF AEROSOLS SCIENCE , 81, 3, 2015, pp. 100-109, Impact Factor = 2.278 ;	20.21
23. M. MUNTEANU, I. SANDU, V. VASILACHE , A.-M. BUDU, I.C.A. SANDU, <i>Study of Modifying the Level of Oxygen Inside the Cryptoclimat for Stopping the Xylophagous Atac on Old Icon Panel</i> , REVISTA DE CHIMIE (Bucharest) , 66, 2, 2015, pp. 187-190, Impact Factor = 0,956 ;	16.47
24. S. PRUTEANU, I. SANDU, M.C. TIMAR, M. MUNTEANU, V. VASILACHE , I.C.A. SANDU, <i>Ecological Systems Applied for Cleaning Gilding in Old Icons</i> , REVISTA DE CHIMIE (Bucharest) , 65, 12, pp. 1467-1472, 2014, Impact Factor = 0,81 ;	12.27
25. S. PRUTEANU, V. VASILACHE , I.C.A. SANDU, A.M. BUDU, I. SANDU, <i>Assessment of Cleaning Effectiveness for New Ecological Systems on Ancient Tempera Icon by Complementary Microscopy Techniques</i> , MICROSCOPY	19.04



RESEARCH AND TECHNIQUES , 77, 12, 2014, pp. 1060-1070, Impact Factor = 1.170 ;	
26. I.G. SANDU, F.A. TENCARIU, D.M. VORNICU, A.V. SANDU, A. VORNICU, V. VASILACHE , I. SANDU, <i>Establishing the archaeo-metallurgic ornamentation process of an axe from the bronze age by OM, SEM-EDX and micro-FTIR</i> , MICROSCOPY RESEARCH AND TECHNIQUES , 77, 11, 2014, pp. 918-927, Impact Factor = 1.170 ;	13.6
27. I. SANDU, O. MIRCEA, I.G. SANDU, V. VASILACHE , A.V. SANDU, <i>Study of the Liesegang Chemical Effects in Antique Bronze Artefacts During Their Stay Within an Archaeological Site</i> , REVISTA DE CHIMIE , (Bucharest), 65, 3, 2014, pp. 311-319, Impact Factor = 0,81 ;	14.72
28. I. SANDU, V. VASILACHE , M. ALEXIANU, R.G. CURCA, <i>Chemical Explanation of an Original Ethno-procedure for Curdling Milk using Natural Brine</i> , REVISTA DE CHIMIE , 65, 1, 2014, pp. 120-122, Impact Factor = 0,81 ;	18.40
29. V. TOMA, R.M. DIACONESCU, I. SANDU, V. VASILACHE , E. BERCU, <i>Optimization of the Process of Melana Fibres Dyeing with Methylene Blue in the Presence of Maleic Copolymers</i> , MATERIALE PLASTICE , 50, 4, 2013, pp. 264-268, Impact Factor = 0,463 ;	10.56
30. E. BERCU, I. SANDU, H.-A. ALDEA, V. VASILACHE , V. TOMA, <i>Interaction of maleic acid copolymers with cationic dyes in aqueous solution influence of chemical structure of the partners</i> , REVISTA DE CHIMIE , 64, 10, 2013, pp. 1121-1126, Impact Factor = 0,677 ;	13.12
31. A. BUZATU, N. BUZGAR, G. DAMIAN, V. VASILACHE , A.I. APOPEI, <i>The determination of the Fe content in natural sphalerites by means of Raman spectroscopy</i> , VIBRATIONAL SPECTROSCOPY , 68, 2013, pp. 220–224, Impact Factor = 1,747 ;	25.96
32. E. BERCU, I. SANDU, C.D. RADU, V. VASILACHE , V. TOMA, <i>Interaction of Maleic Acid Copolymers with Methylene Blue in the Presence and Absence of Melana Fibers</i> , MATERIALE PLASTICE , 50, 3, 2013, pp. 215-219, Impact Factor = 0,463	10.56
33. V. VASILACHE , O. MIRCEA, I.G. SANDU, A.M. VLAD, I.SANDU, <i>Assessment of the conservation state for the preservation and restoration of an archaeological iron artifact</i> , REVISTA DE CHIMIE , 64, 3, 2013, pp. 294-297, Impact Factor = 0,677 ;	13.12
34. V. VASILACHE , D. BOGHIAN, A.I. CHIRCULESCU, S.C. ENEA, I. SANDU, <i>Conservation state assessment and the determination of certain archaeometric characteristics for two bronze items from the early hallstatt period</i> , REVISTA DE CHIMIE , 64, 2, 2013, pp. 152-157, Impact Factor = 0,677 ;	13.12
35. G.V. ATODIRESEI, I.G. SANDU, E.A. TULBURE, V. VASILACHE , R.	13.12



BUTNARU, <i>Chromatic Characterization in Cielab System for Natural Dyed Materials, Prior Activation in Atmospheric Plasma Type DBD</i> , REVISTA DE CHIMIE , 64, 2, 2013, pp. 165-169, Impact Factor = 0,677 ;	
36. E. BERCU, I. SANDU, C.-D. RADU, V. VASILACHE , V. TOMA, H.-A. ALDEA, <i>Influence of anionic maleic polyelectrolytes on the colour parameters at dyeing the melana type fibres with crystal violet</i> , MATERIALE PLASTICE , 49, 4, 2012, pp. 270-274, Impact Factor = 0.379 ;	7.96
37. I.G. SANDU, O. MIRCEA, V. VASILACHE , I. SANDU, <i>Influence of the Archaeological Environment on Ancient Copper Alloy Artifacts</i> , MICROSCOPY RESEARCH AND TECHNIQUE , 75, 12, 2012, pp. 1646-1652, Impact Factor = 1.593 ;	30.15
38. O. MIRCEA, I. SANDU, V. VASILACHE , A.V. SANDU, <i>Study of the Atypical Formations in the Corrosion Bulks of an Ancient Bronze Shield, by Optical and Electron Microscopy</i> , MICROSCOPY RESEARCH AND TECHNIQUE , 75, 11, 2012, pp. 1467-1474, Impact Factor = 1.593 ;	30.15
39. O. MIRCEA, I. SANDU, V. VASILACHE , A.V. SANDU, <i>Research on Atypical Formations from Corrosion Bulks of an Ancient Bronze</i> , REVISTA DE CHIMIE , 63, 9, 2012, pp. 893-899, Impact Factor = 0,538 ;	14.32
40. I. SANDU, D. APARASCHIVEI, V. VASILACHE , I.G. SANDU, O. MIRCEA, <i>The Archaeometric Characteristics of some Ancient Medical Instruments from the Moesia Inferior Roman Province, Revealed by SEM/EDX and μ-FTIR</i> , REVISTA DE CHIMIE , 63, 5, 2012, pp. 495-500, Impact Factor = 0,538 (autor corespondent);	11.46
41. L. CHIRILA, R. BUTNARU, I. SANDU, V. VASILACHE , M. TARLEA, <i>Water pollution reduction by using new premetallised dyes in dyeing wool, in ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL</i> , Iasi, 11, 2, 2012, pp. 285-290, Impact Factor = 1,117 ;	18.40
42. A.M. SAVIUC-PAVAL, I. SANDU, I.M. POPA, I.C.A. SANDU, V. VASILACHE , I.G. SANDU, <i>Preparation and characterisation of the new ceramic pigments for artistic polychromic elements. II. Microscopic and Colourimetric Analysis</i> , REVISTA DE CHIMIE , București, 63, 2, 2012, pp. 166-174, Impact Factor = 0,538 ;	9.55
43. A.M. SAVIUC-PAVAL, I. SANDU, I.M. POPA, I.G. SANDU, V. VASILACHE , A.V. SANDU, <i>Preparation and characterisation of the new ceramic pigments for artistic polychromic elements. I. Synthesis and SEM-ERDX and μ-FTIR Analysis</i> , REVISTA DE CHIMIE , București, 63, 1, 2012, pp. 40-48, Impact Factor = 0,538 ;	5.40
44. L. CHIRILA, R. BUTNARU, I. SANDU, V. VASILACHE , A.V. SANDU, <i>Synthesis and Characterization of Some New Premetalated Dyes Based on Cu(II)</i> , in REVISTA DE CHIMIE , București, 62, 3, 2011, pp. 265-271; Impact Factor = 0,599 ,	12.19



<p>45. I. SANDU, V. VASILACHE, I.C.A. SANDU, M. HAYASHI, <i>New Method of Determining the Normal Range of Hydric-Equilibrium Variation in Wood with Multiple Applications</i>, in REVISTA DE CHIMIE, București (ISSN 0034-7752), 61, 12, 2010, pp. 1212-1218; Impact Factor = 0,693;</p> <p>46. I. SANDU, O. MIRCEA, A.V. SANDU, I. SARGHIE, I.G. SANDU, V. VASILACHE, <i>Non-invasive Techniques in the Analysis of Corrosion Crusts formed on Archaeological Metal Objects</i>, REVISTA DE CHIMIE, București, 61, 11, 2010, pp. 1054-1058; Impact Factor = 0,693</p> <p>47. I. SANDU, M. CHIRAZI, I.G. SANDU, G.I. OLTEANU, M. CANACHE, A.V. SANDU, V. VASILACHE, C. PASCU, <i>Researches on the NaCl saline aerosols. II. New Artificial Halochamber Characteristics</i>, in ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, Iasi, 9, 8, 2010, pp. 1105-1113; Impact Factor = 1,435;</p> <p>48. I. SANDU, M. CHIRAZI, M. CANACHE, M.T. ALEXIANU, I.G. SANDU, A.V. SANDU, V. VASILACHE, <i>Researches on the NaCl saline aerosols.I. Natural and Artificial Production Sources and their Implications</i>, in ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, Iasi, 9, 6, 2010, pp. 881-888; Impact Factor = 1,435;</p> <p>49. I.C.A. SANDU, C. LUCA, I. SANDU, V. VASILACHE, M. HAYASHI, <i>Authentication of ancient easel-paintings through materials identification from polychrome layers. III. Cross-section and staining analysis</i> in REVISTA DE CHIMIE, București, 59, 8, 2008, pp. 855-866; Impact Factor = 0,389;</p> <p>50. I.C.A. SANDU, C. LUCA, I. SANDU, V. VASILACHE, M. HAYASHI, <i>Authentication of ancient easel-paintings through materials identification from polychrome layers. II. FTIR Spectroscopy</i>, in REVISTA DE CHIMIE, București, 59, 4 2008, pp. 384-387; Impact Factor = 0,389;</p> <p>51. I. SANDU, C. LUCA, I.C.A. SANDU, V. VASILACHE, <i>Authentication of ancient easel-paintings through materials identification from polychrome layers. I. Gas-chromatography analysis</i>, in REVISTA DE CHIMIE, București, 58, 10, 2007, pp. 879 – 886, Impact Factor = 0,389;</p> <p>52. I.C.A. SANDU, C. LUCA, I. SANDU, V. VASILACHE, I.G. SANDU, <i>Research concerning the evaluation of the ageing of some soft wood supports of old painting with preparation layer. III. The thermogravimetric analysis</i>, in REVISTA DE CHIMIE, București, 53, 9, 2002, pp.607-616, Impact Factor = 0,281;</p>	<p>16.65</p> <p>11.10</p> <p>13.89</p> <p>15.87</p> <p>9.67</p> <p>9.67</p> <p>12.09</p> <p>8.37</p> <p>Total = 800.29</p>
<p>2. Articole științifice publicate in extenso în reviste indexate fără factor de impact</p> <p>1. V. PELIN, O. RUSU, I. SANDU, V. VASILACHE, S. GURLUI, A.V. SANDU, M.M. CAZACU, I.G.SANDU, <i>Approaching on Colorimetric Change of Porous Calcareous Rocks Exposed in Urban Environmental Conditions from Iasi – Romania</i>, INTERNATIONAL CONFERENCE ON</p>	<p>20 puncte/număr autori</p> <p>2.50</p>



INNOVATIVE RESEARCH - ICIR EUROINVENT 2017, (Edited by: Sandu, AV; Abdullah, MMA; Vizureanu, P; Ghazali, CMR; Sandu, I), IOP Conference Series-Materials Science and Engineering, 2017, 209, Article Number: 012080, DOI: 10.1088/1757-899X/209/1/012080;	
2. C.T. IURCOVSCHI, M. MUNTEANU, C.M. MANEA (AMARIEI), M.M. LUPAȘCU, I.C.A. SANDU, V. VASILACHE , I. SANDU, <i>Ecological Material and Technologies Used in Stopping the Xylophagic Attack on a XVIIIth Century Icon</i> , CHEMISTRY JOURNAL OF MOLDOVA (Chisinau), ISSN 1857-1727 (print) ISSN 2345-1688 (online), 12 , 1, 2017, 53-60, DOI: dx.doi.org/10.19261/cjm.2017.406;	2.86
3. M. MUNTEANU, I. SANDU, V. VASILACHE , I.C.A. SANDU, <i>Disadvantages of using some polymers in restoration of old icons on wooden panels</i> , International Journal of Conservation Science , 7, SI, 2016, pp. 349-356;	5.00
4. V. PELIN, I. SANDU, M. MUNTEANU, C.T. IURCOVSCHI, S. GURLUI, A.V. SANDU, V. VASILACHE , M. BRANZILA, I.G. SANDU, <i>Colour change evaluation on UV radiation exposure for Paun-Repedea calcareous geomaterial</i> , International Conference on Innovative Research - ICIR Euroinvent 2016 , (Eds. Sandu, AV; Abdullah, MMB; Vizureanu, P; AbdRahim, SZ; Sandu, I), IOP Conference Series-Materials Science and Engineering, 2016, 133, Article Number: 012061, DOI: 10.1088/1757-899X/133/1/012061;	2.22
5. M. MUNTEANU, I.C.A. SANDU, M.M. LUPAȘCU, V. VASILACHE , I. SANDU, <i>The importance of a complete and modern information gathering protocol in the conservation process of a xviii-th century icon</i> , International Journal of Conservation Science , 7, 4, 2016, pp. 995-1008;	4.00
6. V. VASILACHE , I. SANDU, C.C. LAZANU, I.G. SANDU, <i>Archaeometalurgical evaluation of two spearheads from the bronze age</i> , International Journal of Conservation Science , 6, 4, 2015, pp. 633-642;	5.00
7. S. PRUTEANU, I. SANDU, V. VASILACHE , <i>Modern Procedures used in Cleaning Old, Illegibly and Blackened Icons</i> , PRESENT ENVIRONMENT AND SUSTAINABLE DEVELOPMENT , 9, 1, 2015, pp. 219-236, doi: 10.1515/pesd-2015-0016,	6.67
8. C. CIORTESCU, G.O. IANCU, I. SANDU, V. VASILACHE , G. JIGAU, <i>Geochemistry of Detrital Garnets from Alluvial Sediments of the Bistrita Aurie River, Romania</i> , Book Group Author(s):SGEM, GEOCONFERENCE ON SCIENCE AND TECHNOLOGIES IN GEOLOGY, EXPLORATION AND MINING , Vol. I, Book Series: International Multidisciplinary Scientific GeoConference-SGEM, (ISBN 978619-7105-07-0 and ISSN 1314-2704), Ed. STEF92 Technology Ltd, Sofia, 2014, pp. 121-128;	4.00
	Total = 32.25
3. Articole științifice publicate, in extenso în reviste indexate BDI;	15 puncte/număr autori



1. A.-M. BUDU, I. HUTANU, V. VASILACHE, I. SANDU, <i>O Comportamento do "Shlagmetal" aplicado a diferentes tipos de mordentes, Estudos de Conservacao e Restauro</i> (Porto), 7, SI, 2015, pp. 72-84.(http://revistas.rcaap.pt/ecr/article/view/9884/7230);	3.75
2. V. PELIN, I. HUȚANU, E. BORȘ, V. VASILACHE, I. SANDU, M. BRÂNZILĂ, <i>Impact on Surface Treatment of Hydrophobic Consolidation Terracotta Ornaments, Key Engineering Materials</i> (Trans Tech Publications), Vol 660, 2015, pp. 369-376, doi:10.4028/www.scientific.net/KEM.660.369,	2.5
3. M. MUNTEANU, I. SANDU, V. VASILACHE, I. C.A. SANDU, <i>The Study of Ornamental Gildings in Old Tempera Icons,from the XVIII-th Century, Key Engineering Materials</i> (Trans Tech Publications), Vol 660, 2015, pp. 389-395, doi:10.4028/www.scientific.net/KEM.660.389,	3.75
4. V. VASILACHE, V. COTIUGĂ, I. SANDU, T.T. PLĂCINTĂ, O. MIRCEA, <i>Study of an Old Coin Set Using Nondistructive Techniques, Key Engineering Materials</i> (Trans Tech Publications), Vol 660, 2015, pp. 396-401, doi:10.4028/www.scientific.net/KEM.660.396,	3.00
5. I. HUȚANU, L. NICA, I. SANDU, V. VASILACHE, A.V. SANDU, <i>Acrylic Binder Used for the Consolidation of Gilded Surfaces, Applied Mechanics and Materials</i> , Vols. 754-755 (2015) pp 624-628, <i>Trans Tech Publications, Switzerland</i> , doi:10.4028/www.scientific.net/AMM.754-755.624.	3.00
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39. I. G. SANDU, M. HAYASHI, I. SANDU, V. VASILACHE, N. VRÎNCEANU, A. CIOCAN, <i>“The impact of old wood at the contact with metallic structural components from artifacts”</i> , 7 th International Conference Wood Science and Engineering in the Third Millennium – ICWSE 2009 , “Transilvania” University Press (ISSN 1843-2589), Brașov, 2009, p. 479 – 485;	0.83
40. A. CIOCAN, I. SANDU, M. HAYASHI, A.V. SANDU, V. VASILACHE, <i>“The implication of two complementary techniques the determination of the degree of penetration of some active compounds during wood treatment”</i> , 7 th International Conference Wood Science and Engineering in the Third Millennium – ICWSE 2009 , “Transilvania” University Press (ISSN 1843-2589), Brașov, 2009, p. 452 – 465;	1.00
41. V. VASILACHE, I. SANDU, C. LUCA, M. HAYASHI, A.V. SANDU, <i>“Determination of the conservation state of old wood artifacts”</i> , in Proceedings of the 2nd International Conference ADVANCES MATERIALS AND SYSTEMS ICAMS 2008 , Ed. CERTEX (ISBN 978 – 973 – 1716 – 39 – 8), București, 2008, p 501 – 507;	1.00
42. I. SANDU, T. LUPASCU, I.C.A. SANDU, C. LUCA, I.G. SANDU, V. VASILACHE, M. HAYASHI, M. CIOBANU, <i>“New method for the evaluation of the characteristics on the old wood used in preservation process and authentication”</i> , in Proceedings of the 2nd International Conference ADVANCES MATERIALS AND SYSTEMS ICAMS 2008 , Ed. CERTEX (ISBN 978 – 973 – 1716 – 39 – 8), București, 2008, p 490 – 494;	0.63
43. I.C.A. SANDU, V. VASILACHE, I. SANDU, N. VRINCEANU, I.G. SANDU, <i>“New aspects on culturale heritage nomenclature”</i> , in Proceedings of the 2nd International Conference ADVANCES MATERIALS AND SYSTEMS ICAMS 2008 , Ed. CERTEX (ISBN 978 – 973 – 1716 – 39 – 8), București, 2008, 2008, p.473 - 477;	1.00
44. I. SANDU, T. LUPASCU, I.C.A. SANDU, C. LUCA, I.G. SANDU, V. VASILACHE, M. HAYASHI, <i>“Ecologic organic solution for the treatment against insects and fungal attack of the old wood-made artifacts”</i> , 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;	0.71
45. I. SANDU, T. LUPASCU, I.C.A. SANDU, C. LUCA, I.G. SANDU, V. VASILACHE, M. HAYASHI, M. CIOBANU, <i>“New method for the evaluation of the cumulative preservation treatment impact on the old wood with echological organic solutions”</i> , 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;	0.63
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<p>5. Cărți științifice publicate (doar prima ediție)</p> <p>1. M.A. CRETU, I.G. SANDU, V. VASILACHE, A.V. SANDU, (I. SANDU coordonator), <i>Implicarea ceramicilor în potabilizarea apelor subterane și de suprafață</i>, Ed. Univ. ”Al.I.Cuza”, (ISBN: 978-606-714-451-2), , Iași 2018, 250p.;</p> <p>2. I. SANDU, M. CANACHE, A.V. SANDU, V. VASILACHE, <i>Aerosolii salini în dezvoltarea copiilor</i>, Ed. Univ. ”Al.I.Cuza”, (ISBN: 978-606-714-099-6), Iași, 2015, 242 p.;</p> <p>3. I. SANDU, V. VASILACHE, F.A. TENCARIU, V. COTIUGĂ, <i>Conservarea Științifică a Artefactelor din Ceramică</i>, Ed. Univ. ”Al.I.Cuza”, (ISBN 978-973-703-600-1), Iași, 2010, 455 p.;</p> <p>4. V. VASILACHE, I. SANDU C.LUCA, I.C.A.SANDU, <i>Noutăți în conservarea științifică a lemnului vechi policrom</i>, Ed. Univ. ”Al.I.Cuza”, (ISBN 978-973-703-477-9), Iași, 2009, 282 p.;</p> <p>5. I. SANDU, I.C.A. SANDU, V. VASILACHE, M.L. GEAMAN, <i>Aspecte Moderne privind conservarea bunurilor Culturale</i>, vol. IV. <i>Determinarea stării de conservare și</i></p>	<p>Edituri academice naționale: 50 puncte la 100 pagini/număr autori</p> <p>31.25</p> <p>31.25</p> <p>56.25</p> <p>37.00</p> <p>50.00</p>



<i>restaurarea picturilor de șevalet</i> , Ed. Performantica, (ISBN 973-730-048-3 și 973-730-242-7), Iași, 2006, 432 p.;	Total = 205.75
6. Cărți științifice traduse și publicate în edituri din străinătate	-
7. Coordonarea și editarea de volume, traduceri și antologii	-
8. Articole publicate în dicționare și enciclopedii	-
9. Contracte de cercetare științifică în instituții academice (universități, institute ale Academiei Române, institute naționale de cercetare, institute de cercetare din străinătate, alte categorii de institute academice)	contracte naționale – director: 50 puncte pentru fiecare 500.000 lei; membru: 50 puncte pentru fiecare 500.000 lei /numărul membrilor echipei de cercetare
Responsabil partener proiect component P5 – Contract de finanțare nr. 60PCCDI/2018, cod PN-III-P1-1.2-PCCDI-2017- 0239, derulat cu sprijinul CNCS-UEFISCDI, <i>Obinerea și expertizarea unor noi materiale biocompatibile pentru aplicații medicale</i> , Coordonator Universitatea Tehnică „Gh. Asachi” Iași (Buget UAIC – 150.000 lei)	15.00
Responsabil partener proiect component P3 – Contract de finanțare nr. 52PCCDI/2018, cod PN-III-P1-1.2-PCCDI-2017- 0686, derulat cu sprijinul CNCS-UEFISCDI, <i>Platformă pluridisciplinară complexă de cercetare integrativă și sistematică a identităților și patrimoniului cultural tangibil și non-tangibil din România</i> , Coordonator Universitatea București, (Buget UAIC – 70.000 lei)	7.00
Membru - proiect PN-III-P4-ID-PCE-2016-0759, nr. 151/2017 derulat cu sprijinul CNCS-UEFISCDI, <i>The Ethnoarchaeology of Salt in the Inner Carpathian area of Romania</i> Acronym: EthnosalRo3 – Coordonator UAIC http://ethnosalro.uaic.ro/ethnosalro3/ (Buget – 1.000.000)	2.50
Membru - Parteneriate în domenii prioritare — PN-II-PT-PCCA-2013-4-2234, derulat cu sprijinul MEN – UEFISCDI, proiect nr. 314/2014, <i>Investigații non-destructive în situri arheologice complexe. Un model integrat de cercetare aplicată a patrimoniului cultural imobil</i> — arheoinvest.uaic.ro/research/prospect (Buget – 1.000.000 lei)	4.81
Membru - Grant tip A, Cod CNCIS 423, IDEI, Tema nr. Contract nr. 127/2007, SISTEME INOVATIVE DE INVESTIGARE ȘTIINȚIFICĂ ȘI CONSERVARE INTEGRATĂ ÎN VEDEREA VALORIFICĂRII ȘI TEZAUORIZĂRII PATRIMONIULUI CULTURAL (Universitatea “Al.I.Cuza” Iași, Platforma ARHEOINVEST, valoare 1.000.000 lei);	20.00
Membru - Proiect PARTENERIAT, Contract nr. 71-086/18.09.2007 – TEHNOLOGIE MODERNA DE OBTINERE A STRATURILOR FOSFATATE DE ÎNALTĂ POROZITATE PENTRU PRELUCRAREA PLASTICĂ VOLUMICĂ A PIESELOR DIN INDUSTRIA DE AUTOMOBILE coordonator proiect: Universitatea Tehnică „Gh. Asachi” Iași	2,50



<p>(Universitatea “Al.I.Cuza” Iași, Platforma ARHEOINVEST – partener 2, valoare/Partener - 50.000 RON);</p> <p>Membru - Proiect Prioritar Național - Programul BIOTECH, Contract nr. 04-PP-1076/22.11.2004, cu Ministerul Educației și Cercetării, 2005-2006: <i>PRODUSE SI TEHNOLOGII PENTRU PROTECTIA (CONSERVAREA) OBIECTELOR DE PATRIMONIU IMPOTRIVA AGENTILOR BIOLOGICI DAUNATORI (MICROORGANISME: BACTERII, MUCEGAIURI, CIUPERCI, ALGE, ETC., INSECTE: MOLII, CARI, DIFERITE SPECII DE GANDACI ETC.)</i>, (Universitatea “Al.I.Cuza” Iași, Facultatea de Teologie Ortodoxă, valoare 27.000 RON);</p> <p>Membru - Proiect: POSDRU 89/1.5/S/61104, „Științele socio-umaniste în contextul evoluției globalizate – dezvoltarea și implementarea programului de studii și cercetare postdoctorale” (Beneficiar: Academia Română, valoare 5.000.000 EURO);</p> <p>Membru - Proiect POSDRU/86/1.2/S/62307, Contract nr. E 6677/18.08.2010, PROMOVAREA CERCETĂRII ȘTIINȚIFICE DIN DOMENIUL CRIMINALISTICII ÎN ACTIVITATEA JUDICIARĂ (Beneficiar: Academia de Poliție „Alexandru Ioan Cuza”, București (AAIC), Partener: Universitatea „Alexandru Ioan Cuza”, Iași (UAIC), valoare/Partener – 1.711.548RON = 380.344 EURO)</p>	<p>1,25</p> <p>contract internațional – membru:</p> <p>contract internațional – membru: 380,344/10 = 38.00</p> <p>Total = 91.06</p>
10. Contracte de cercetare în mediul de afaceri și sectorul public	
11. Brevete <p>1. I. SANDU, C. KISS, GH. POPA, A.V. SANDU, V. VASILACHE, V. SIRBU, D.L. GORGAN, I.G. SANDU, G. DROCHIOIU, D. POLTOLINCĂ, <i>Poligraf cu sistem integrat de coasistare și metoda de testare cu ajutorul acestuia</i>, înregistrat la OSIM cu Nr. A00609/19.08.2013</p> <p>2. I. SANDU, T. LUPASCU, I.C.A. SANDU, V. VASILACHE, A.V. SANDU, V. BOTAN, <i>Method for reproducing the picture with reconstructed image</i>, Patent MD469(Y)/2012-01-31 (AGEPI File a MDS20110079 20100730), Owner the Institute for Chemistry of the Academy R. Moldova of Kisinev, 2 ref.;</p> <p>3. I. SANDU, T. LUPASCU, I.C.A. SANDU, V. VASILACHE, A.V. SANDU, V. BOTAN, <i>Procedeu de reintegrare cromatică a zonelor lacunare ale picturilor vechi</i>, 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 Kisinev, 3 ref.;</p> <p>4. I. SANDU, I.C.A. SANDU, V. VASILACHE, A.V. SANDU, I.G. SANDU, <i>Procedeu de reintegrare cromatică a picturilor</i>, Patent RO127086 (A2)/2012.28.02, OSIM File RO000718/09.08.2010, Owner the „Al.I.Cuza” University of Iasi;</p> <p>5. I.C.A. SANDU., V. VASILACHE, I. SANDU, N.VRINCEANU, I.G. SANDU, A.C.CIOCAN, A.V. SANDU, <i>Process for actively preserving old water-soaked</i></p>	<p>internaționale: 100 puncte/număr autori naționale: 30/număr autori</p> <p>3</p> <p>5.00</p> <p>5.00</p> <p>6.00</p> <p>4,29</p>



<i>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);</i>	
6. I. SANDU, T. LUPASCU, C. LUCA, V. VASILACHE , M. HAYASHI, F.D. VLAD, I.G. SANDU, <i>Insectofungicidal Composition as an Alcohol Solution and Process for Preparing The Same, Patent RO123353 (B1)/2011-10-28</i> , OSIM File RO20080000174 20080304, Owner the „Al.I.Cuza” University of Iasi;	4,29
7. B.A. HAGIU, A.V. SANDU, T. LUPASCU, M. CHIRAZI, I. MANGALAGIU, I. SANDU, M. CIOBANU, V. VASILACHE , <i>Powder with haemostatic and regenerative properties (variants) and process for the production thereof, Patent MD4117(13)B1/10.12.2010</i> (AGEPI File a 2010 0134/2010.12.03, Owner the Institute for Chemistry of the Academy R. Moldava of Kisinev, 5 ref.;	3,75
8. I. SANDU, M. CANACHE, I.G. SANDU, A.V. SANDU, V. VASILACHE , <i>Artificial Halochamber with Multiple Users, Patent RO126283-A2/30.05.2011</i> , OSIM FILE A200900897/05.11.2009, Owner the Romanian Inventors Form;	6,00
9. I. SANDU, M. CANACHE, T. LUPASCU, I.G. SANDU, A.V. SANDU, V. VASILACHE , <i>Surface Artificial Halochamber, Patent MD4040(B1)/2010.05.31</i> , AGEPI File a20090115/2009.05.11. Owner the Institute for Chemistry of the Academy R. Moldava of Kisinev, 4 ref.;	5,00
10. C. BEJINARIU, I. SANDU, V. VASILACHE , I.G. SANDU, M.G. BEJINARIU, A.V. SANDU, M. SOHACIU, V. VASILACHE , <i>Process for the micro-crystalline phosphate-coating of iron-based metal pieces, Patent RO125457-A2/28.05.2010</i> , OSIM File A/01023/29.12.2008, Owner the „Gheorghe Asachi” Technical University of Iasi, 12 ref.;	3,75
11. C. BEJINARIU, I. SANDU, C. PREDESCU, V. VASILACHE , C. MUNTEANU, A.V. SANDU, V. VASILACHE , I.G. SANDU, <i>Process for the crystalline lubricating phosphate-coating of iron-based metal pieces, Patent RO125456-A2/28.05.2010</i> , OSIM File A/01022/29.12.2008, Owner the „Gheorghe Asachi” Technical University of Iasi, 12 ref.;	3,75
12. I. SANDU, T. LUPASCU, I.C.A. SANDU, V. VASILACHE , I.G. SANDU, V. BOȚAN, A.V. SANDU, A.C. CIOCAN, <i>Process for Insectofungicization and Fireproofing of Age-old Artworks, Patent MD4018(G2)/2010.02.26</i> , Dosar AGEPI a 2008 0249/2008.09.30, Owner the Institute for Chemistry of the Academy R. Moldava of Kisinev), 14 ref.;	3,75
13. I. SANDU, T. LUPASCU, I.C.A. SANDU, V. VASILACHE , I.G. SANDU, V. BOȚAN, A.V. SANDU, A.C. CIOCAN, <i>Process for insectofungicization and hydrophobization of age-old wood articles of art, Patent MD3966(B1)/2009.09.30</i> , (AGEPI File a2008 0051/2009/a20080249/30.09.2008, Owner the Institute for Chemistry of the Academy R. Moldava of Kisinev), 14 ref.;	3,75
14. I. SANDU, T. LUPASCU, I.C.A. SANDU, C. LUCA, V. VASILACHE , I.G.	



<p>SANDU, M. HAYASHI, A.V. SANDU, M. CIOBANU, <i>Method for determining the normal water equilibrium variation domain</i>, 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);</p> <p>15. I. SANDU, T. LUPASCU, C. LUCA, V. VASILACHE, M. HAYASHI, F.D.VLAD, I.G. SANDU, <i>Ecologic organic solution for the insectofungic treatment of the old wood in artefacts</i>, 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);</p>	<p>3.33</p> <p>4,29</p> <p>Total = 44.58</p>
<p>12. Citări și recenzii ale lucrărilor științifice</p> <p>G.V. ATODIRESEI, I.G. SANDU, E.A. TULBURE, V. VASILACHE, R. BUTNARU, <i>Chromatic Characterization in Cielab System for Natural Dyed Materials, Prior Activation in Atmospheric Plasma Type DBD</i>, REVISTA DE CHIMIE, 64, 2, 2013, pp. 165-169;</p> <p>Citat de:</p> <p>1. Widati, AA, Abdulloh, A., Khasanah, M., Kusumawati, R., Cahyandaru, N., Fabrication of silica-titania as consolidant and self cleaning for the conservation of andesite stone, International Journal of Conservation Science, 8, 3, 2017, pp. 411-418;</p> <p>2. Rushdy, AM., Wahba, WN., Abd-Aziz, MS., El Samahy, M., Kamel, S., A comparative study of consolidation materials for paper conservation, International Journal of Conservation Science, 8, 3, 2017, pp. 441-452</p> <p>3. Hassan, RRA., Mohamed, WS., Effect of methyl methacrylate/hydroxyethyl methacrylate copolymer on optical and mechanical properties and long-term durability of paper under accelerated ageing, International Journal of Conservation Science, 8, 2, 2017, pp. 237-250</p> <p>4. Gaidau, C., Niculescu, MD., Surdu, L., Dinca, L., Barbu, I., Improved properties of wool on sheepskins by low pressure plasma treatment, INDUSTRIA TEXTILA, 68, 3, 2017, pp. 193-196</p> <p>5. Mohamed, W.A., Mohamed, NM., Testing Coatings for Enameled Metal Artifacts, International Journal of Conservation Science, 8, 1, 2017, pp. 15-24</p> <p>S. PRUTEANU, V. VASILACHE, I.C.A. SANDU, A.M. BUDU, I. SANDU, <i>Assessment of Cleaning Effectiveness for New Ecological Systems on Ancient Tempera Icon by Complementary Microscopy Techniques</i>, MICROSCOPY RESEARCH AND TECHNIQUES, 77, 12, 2014, pp. 1060-1070, 1.170;</p> <p>Citat de:</p> <p>1. Rushdy, AM., Wahba, WN., Abd-Aziz, MS., El Samahy, M., Kamel, S., A comparative study of consolidation materials for paper conservation, International Journal of Conservation Science, 8, 3, 2017, pp. 441-452</p>	<p>reviste de specialitate din străinătate:(10 + 20 x factor de impact) / număr autori, pentru fiecare citare reviste de specialitate din țară: (5 + 10x factor de impact) / număr autori, pentru fiecare citare monografii academice din străinătate:50 puncte / număr autori, pentru fiecare citare monografii academice din țară: 25puncte / număr autori, pentru fiecare citare</p> <p>1</p> <p>1</p> <p>1</p> <p>3.55</p> <p>1</p> <p>1</p>



<p>A.M. SAVIUC-PAVAL, I. SANDU, I.M. POPA, I.C.A. SANDU, V. VASILACHE, I.G. SANDU, <i>Obtaining and characterisation of the new ceramic pigments for artistic polychromic elements. II. Microscopic and Colourimetric Analysis</i>, REVISTA DE CHIMIE, București (ISSN 0034-7752), vol. 63, 2, 2012, pp. 170-178;</p> <p>Citat de:</p> <p>1. Mohamed, W.A., Mohamed, NM., Testing Coatings for Enameled Metal Artifacts, International Journal of Conservation Science, 8, 1, 2017, pp. 15-24</p> <p>I. SANDU, O. MIRCEA, A.V. SANDU, I. SARGHIE, I.G. SANDU, V. VASILACHE, <i>Non-invasive Techniques in the Analysis of Corrosion Crusts formed on Archaeological Metal Objects</i>, REVISTA DE CHIMIE, București (ISSN 0034 -7752), vol. 61, 11, 2010, p. 1054 -1058;</p> <p>Citat de:</p> <p>1. Abeer, G., The use of mineralogical data in interpretation of brass alloy brittleness through a metallic object from museum of faculty of applied arts in cairo, International Journal of Conservation Science, 8, 2, 2017, pp. 199-206</p> <p>E. BERCU, I. SANDU, C.-D. RADU, V. VASILACHE, V. TOMA, H.-A. ALDEA, <i>Influence of anionic maleic polyelectrolytes on the colour parameters at dyeing the melana type fibres with crystal violet</i>, MATERIALE PLASTICE, 49, 4, 2012, p. 270-274,</p> <p>Citat de:</p> <p>1. Hassan, RRA., Mohamed, WS., Effect of methyl methacrylate/hydroxyethyl methacrylate copolymer on optical and mechanical properties and long-term durability of paper under accelerated ageing, International Journal of Conservation Science, 8, 2, 2017, pp. 237-250</p> <p>S. PRUTEANU, I. SANDU, M.C. TIMAR, M. MUNTEANU, V. VASILACHE, I.C.A. SANDU, <i>Ecological Systems Applied for Cleaning Gilding in Old Icons</i>, REVISTA DE CHIMIE, (Bucharest), 65, 12, 1467-1472, 2014,</p> <p>Citat de:</p> <p>1. Rushdy, AM., Wahba, WN., Abd-Aziz, MS., El Samahy, M., Kamel, S., A comparative study of consolidation materials for paper conservation, International Journal of Conservation Science, 8, 3, 2017, pp. 441-452</p> <p>O. MIRCEA, I. SANDU, V. VASILACHE, A.V. SANDU, <i>Study of the Atypical Formations in the Corrosion Bulks of an Ancient Bronze Shield, by Optical and Electron Microscopy</i>, MICROSCOPY RESEARCH AND TECHNIQUE, 75, 11, 2012, p. 1467-1474,</p> <p>Citat de:</p> <p>1. Jin, PJ., Ruan, FH., Yang, XG., Liu, KQ., Zou, HX., Ye, L., Gu, L.Y., Assessment of cleaning the corrosion layer of plated bronzes with a complex gel of polyvinyl alcohol and carbomer, International Journal of Conservation Science, 8, 1, 2017, pp. 3-14</p>	<p>0.83</p> <p>0.83</p> <p>0.83</p> <p>0.83</p> <p>1.25</p>
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<p>I.G. SANDU, O. MIRCEA, V. VASILACHE, I. SANDU, <i>Influence of the Archaeological Environment on Ancient Copper Alloy Artifacts</i>, MICROSCOPY RESEARCH AND TECHNIQUE, 75, 12, 2012, p. 1646-1652,</p> <p>Citat de:</p> <p>1. Abeer, G., The use of mineralogical data in interpretation of brass alloy brittleness through a metallic object from museum of faculty of applied arts in cairo, International Journal of Conservation Science, 8, 2, 2017, pp. 199-206</p> <p>2. Jin, PJ., Ruan, FH., Yang, XG., Liu, KQ., Zou, HX., Ye, L., Gu, L.Y., Assessment of cleaning the corrosion layer of plated bronzes with a complex gel of polyvinyl alcohol and carbomer, International Journal of Conservation Science, 8, 1, 2017, pp. 3-14;</p> <p>I. SANDU, V. VASILACHE, I.C.A. SANDU, M. HAYASHI, <i>A New Method of Determining the Normal Range of Hydric-Equilibrium Variation in Wood with Multiple Applications</i>, REVISTA DE CHIMIE, București (ISSN 0034 -7752), vol. 61, 12, (2010), pp. 1212 -1218</p> <p>Citat de:</p> <p>1. Goli, G., Marcon, B., Busoni, L., Carlson, B. Cavalli, A., Giordano, A., Mazzanti, P., Montanari, P., Togni, M., Fioravanti, M., Antique violins: effect of the player on the moisture content, International Journal of Conservation Science, 8, 2, 2017, pp. 177-186;</p> <p>1. Goli, G., Cocchi, L., Togni, M., Fioravanti, M., Test of a device for the active control of environmental humidity in museum display cases, International Journal of Conservation Science, 8, 1, 2017, pp. 43-50;</p> <p>O. MIRCEA, I. SANDU, V. VASILACHE, A.V. SANDU, <i>Research on Atypical Formations from Corrosion Bulks of an Ancient Bronze</i>, REVISTA DE CHIMIE, 63, 9, (2012), pp. 893-899</p> <p>Citat de:</p> <p>1. Jin, PJ., Ruan, FH., Yang, XG., Liu, KQ., Zou, HX., Ye, L., Gu, L.Y., Assessment of cleaning the corrosion layer of plated bronzes with a complex gel of polyvinyl alcohol and carbomer, International Journal of Conservation Science, 8, 1, 2017, pp. 3-14;</p> <p>V. PELIN, I. SANDU, S. GURLUI, M.BRANZILA, V.VASILACHE, E. BORS, I.G. SANDU, <i>Preliminary investigation of various old geomaterials treated with hydrophobic pellicle</i>, COLOR RESEARCH AND APPLICATION, 41, 3(SI), 2016, pp. 317-320</p> <p>Citat de:</p> <p>1. Afif, M; Mahirta, The effectiveness of sansevieria trifasciata cuticle isolation to protect the materials of cultural heritage object against weathering caused by rainwater, International Journal of Conservation Science, 8, 3, 2017, pp. 401-410</p> <p>2. Widati, AA., Abdulloh, A., Khasanah, M., Kusumawati, R., Cahyandaru, N., Fabrication of silica-titania as consolidant and self cleaning for the conservation of andesite stone, International Journal of Conservation Science, 8, 3, 2017, pp. 411-418</p> <p>2. Birsan, M. Bibire, N., Vieriu, M., Panainte, AD, Cojocaru, I., Influence of Hydroxypropyl Methylcellulose on Flowing and Swelling Parameters in</p>	<p>1.25</p> <p>1.25</p> <p>1.25</p> <p>1.25</p> <p>1.25</p> <p>0.71</p> <p>0.71</p>
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3. Al-Bawab, A., Abd-Allah, R., Al-Hamati, H., Odeh, F., Bozeya, A., Consolidation of archaeological basalt stone: a new experimental protocol by using different dispersions formulation, <i>International Journal of Conservation Science</i> , 8, 2, 2017, pp. 187-198	0.71
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I. SANDU, O. MIRCEA, I.G. SANDU, V. VASILACHE, A.V. SANDU, <i>Study of the Liesegang Chemical Effects in Antique Bronze Artefacts During Their Stay Within an Archaeological Site</i> , REVISTA DE CHIMIE , (Bucharest), 65, 3, 311-319, 2014	
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A.M. SAVIUC-PAVAL, I. SANDU, I.M. POPA, I.G. SANDU, V. VASILACHE, A.V. SANDU, <i>Preparation and characterisation of the new ceramic pigments for artistic polychromic elements. I. Synthesis and SEM-EDX and μ-FTIR Analysis</i> , REVISTA DE CHIMIE , București (ISSN 0034-7752), vol. 63, 1, 2012, p. 40-48	
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V. PELIN, I. SANDU, S. GURLUI, M. BRINZILA, V. VASILACHE, I. G. SANDU, <i>Evaluation of the artificial aging rate through UV radiation exposure of indigenous carbonate rocks, treated with water - solvated nano-dispersions, with the interest of consolidation and the formation of a waterproof character</i> , REVISTA DE CHIMIE , (Bucharest), 67, 12, 2016, pp. 2568-2572,	



<p>Citat de:</p> <p>1. Afif, M; Mahirta, The effectiveness of sansevieria trifasciata cuticle isolation to protect the materials of cultural heritage object against weathering caused by rainwater, <i>International Journal of Conservation Science</i>, 8, 3, 2017, pp. 401-410</p> <p>2. Widati, AA., Abdulloh, A., Khasanah, M., Kusumawati, R., Cahyandaru, N., Fabrication of silica-titania as consolidant and self cleaning for the conservation of andesite stone, <i>International Journal of Conservation Science</i>, 8, 3, 2017, pp. 411-418</p> <p>3. Al-Bawab, A., Abd-Allah, R., Al-Hamati, H., Odeh, F., Bozeyya, A., Consolidation of archaeological basalt stone: A new experimental protocol by using different dispersions formulation, <i>International Journal of Conservation Science</i>, 8, 2, 2017, pp. 187-198</p> <p>4. Hassan, RRA., Mohamed, WS., Effect of methyl methacrylate/hydroxyethyl methacrylate copolymer on optical and mechanical properties and long-term durability of paper under accelerated ageing, <i>International Journal of Conservation Science</i>, 8, 2, 2017, pp. 237-250</p> <p>I. HUTANU, I. SANDU, V. VASILACHE, L. NICA, I.C.A. SANDU, <i>Study Concerning the Consolidation of Degraded Pictural Layer with Acrylic Binder</i>, REVISTA DE CHIMIE (Bucharest), 66, 6, 2015, pp. 895-900</p> <p>Citat de:</p> <p>1. Hassan, RRA., Mohamed, WS., Effect of methyl methacrylate/hydroxyethyl methacrylate copolymer on optical and mechanical properties and long-term durability of paper under accelerated ageing, <i>International Journal of Conservation Science</i>, 8, 2, 2017, pp. 237-250</p> <p>I.G. SANDU, F.A. TENCARIU, D.M. VORNICU, A.V. SANDU, A. VORNICU, V. VASILACHE, I. SANDU, <i>Establishing the archaeo-metallurgic ornamentation process of an axe from the bronze age by OM, SEM-EDX and micro-FTIR</i>, MICROSCOPY RESEARCH AND TECHNIQUES, 77, 11, 2014, pp. 918-927</p> <p>Citat de:</p> <p>1. Di Turo, F., De Vito, C., Coletti, F., Mazzei, F., Antiochia, R., Favero, G., A multi-analytical approach for the validation of a jellified electrolyte: Application to the study of ancient bronze patina, MICROCHEMICAL JOURNAL, 134, 2017, pp. 154-163; DOI: 10.1016/j.microc.2017.05.015</p> <p>A. BUZATU, N. BUZGAR, G. DAMIAN, V. VASILACHE, A.I. APOPEI, <i>The determination of the Fe content in natural sphalerites by means of Raman spectroscopy</i>, VIBRATIONAL SPECTROSCOPY, 68, 2013, pp. 220–224</p> <p>Citat de:</p> <p>1. Karimi, S., Ghahreman, A., Rashchi, F., Moghaddam, J., The mechanism of electrochemical dissolution of sphalerite in sulfuric acid media, ELECTROCHIMICA ACTA, 253, 2017, pp. 47-58, DOI: 10.1016/j.electacta.2017.09.040</p> <p>V. VASILACHE, I. SANDU, C.C. LAZANU, I.G. SANDU Archaeometalurgical evaluation of two spearheads from the bronze age, International Journal of Conservation Science, 6, 4, 2015, pp. 633-642,</p> <p>Citat de:</p> <p>1. Jin, PJ., Ruan, FH., Yang, XG., Liu, KQ., Zou, HX., Ye, L., Gu, L.Y., Assessment of cleaning the corrosion layer of plated bronzes with a complex gel of polyvinyl alcohol and carbomer, <i>International Journal of Conservation Science</i>, 8, 1, 2017, pp. 3-14</p>	<p>0.83</p> <p>0.83</p> <p>0.83</p> <p>0.83</p> <p></p> <p>1</p> <p></p> <p>10.10</p> <p></p> <p>21.19</p> <p></p> <p>1.25</p>
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<p>D. POTOLINCA, I.C. NEGRU, V. VASILACHE, C. ARSENE, M. PADURARU, I. SANDU, <i>Forensic expertise of the paper support of counterfeit documents, MATERIALE PLASTICE</i>, Bucharest, 54, 1, 41-45, 2017</p> <p>Citat de:</p> <p>1. Ioan, BG., Manea, C., Hanganu, B., Statescu, L., Solovastu, LG., Manolescu, I., The Chemistry Decomposition in Human Corpses, <i>REVISTA DE CHIMIE</i>, 68, 6, 2017, pp. 1352-1356</p> <p>V.G. VASILESCU, I. SANDU, G. NEMTOI, A.V. SANDU, V. POPESCU, V. VASILACHE, I.G. SANDU, E. VASILESCU, <i>The reactivity of Ti10Zr alloy in biological and electrochemical systems in the presence of chitosan, RCS ADVANCES (ISSN 2046-2069)</i>, 7, 2017, No pp. 13919-13927, DOI: 10.1039/c7ra00231a,</p> <p>Citat de:</p> <p>1. Radu, CD., Danila, A., Sandu, I., Muresan, IE., Sandu, IG., Branisteanu, ED., Fibrous Polymers in Textile Prospect for Tissue Engineering Development, <i>REVISTA DE CHIMIE</i>, 68, 6, 2017, pp. 1345-1351</p>	<p>3.18</p> <p>2.39</p> <p>Total = 74.10</p>
<p>13. Lucrări susținute în calitate de invitat la manifestări științifice (conferințe, congrese, simpozioane, seminarii și ateliere de lucru)</p> <p><i>Tehnici de investigare a artefactelor arheologice din metal în vederea conservării și restaurării</i>, lucrare susținută în cadrul Workshop-ului Internațional “Conservation of archaeological bronze objects at the History Museum of Armenia”, organizat de Muzeul de Istorie din Armenia și Institutul Național de Cercetare pentru Proprietățile Culturale din Tokyo, perioada 07-11 februarie 2012, Yerevan, Armenia</p>	<p>Străinătate: 25 puncte pentru fiecare activitate</p> <p>25</p> <p>Total = 25.00</p>
<p>14. Profesor/cercetător invitat la universități/institute de cercetare</p>	-
<p>15. Editor/Membru în Editorial Board & Advisory Board</p> <p>Secretar în Comitetul de Ediție al International Journal of Conservation Science, ISSN: 2067-533X, publicație pe adresa www.ijcs.uaic.ro (revista ISI)</p>	<p>20</p> <p>Total = 20.00</p>
<p>16. Premii internaționale obținute printr-un proces de selecție</p> <p>1. Gold Medal la International Exhibition of Technical Innovations, Patents and Inventions, organized Werk Arena Trinec, Czech Republic (20-22 June 2018) pentru Process for the micro crystalline phosphate-coating of iron based metal pieces, autori: C. Bejinariu, I. Sandu, C. Predescu, Violeta Vasilache, C. Munteanu, A.V. Sandu, Viorica Vasilache, I.G. Sandu</p> <p>2. Gold Medal la International Invention Innovation Competition in Canada organized by Toronto International Society on Innovation&Advanced Skills (26 aug. 2017) pentru <i>Halocameră artificială</i>, autori: I. Sandu, M. Canache, C.M. Știrbu, I.C. Știrbu, A.V. Sandu, M. Chirazi, V. Vasilache;</p> <p>3. Gold Medal la 2nd Istanbul International Inventions Fair ISIF 17, Istanbul, Turcia (2-4 march 2017) pentru <i>Metod for determining normal range of variation of equilibrium moisture content</i>, autori: Sandu I., Luca C., Sandu I.C.A., Hayashi Mikiko, Sandu I.G. Vasilache V., Sandu A.V;</p>	<p>100 puncte / categorie / număr persoane</p> <p>12.50</p> <p>14.29</p> <p>14.29</p>



4. Bronze Medal la 2 nd Istambul International Inventions Fair ISIF 17, Istambul, Turcia (2-4 march 2017) pentru <i>Treatment of surface and underground ater with ceramics</i> , autori: I. Sandu, M.A. Crețu, T. Lupașcu, J. Sieliechi, A.V. Sandu, I. Kaoume, V. Vasilache , I.G. Sandu.	12.50
5. Special Prize la 2 nd Istambul International Inventions Fair ISIF 17, Istambul, Turcia (2-4 march 2017) pentru <i>Metod for determining normal range of variation of equilibrium moisture content</i> , autori: Sandu I., Luca C., Sandu I.C.A., Hayashi Mikiko, Sandu I.G. Vasilache V. , Sandu A.V;	14.29
6. Special Award la Egypt Invent - International Exhibition of Inventions organized by The Egyptian Society for Women & Youth Inventor & The Egyptian Inventors Syndicate (1-3 march 2017) pentru <i>Artificial Halochamber</i> , autori: I. Sandu, M. Canache, M. Chirazi, A.V. Sandu, P.N. Matei, V. Vasilache , A. Matei, I.G. Sandu;	12.50
7. Gold Medal la Morocco International Inovation Competition (10 july 2017) at the National School of Applied Sciences (ENSA), Kenitra-Morocco pentru <i>Artificial Halochamber</i> , autori: I. Sandu, M. Canache, C.M. Știrbu, I.C. Știrbu, A.V. Sandu, M. Chirazi, V. Vasilache ;	14.29
8. Diplomă de Excelență pentru participarea în cadrul Salonului Internaional de Inventică EUROINVENT (25-27 mai 2017) cu: Photocatalytic degradation of 2,4-dinitrophenol (DNP) by ZnFe ₂ O ₄ nanoparticles in aqueous solution, autori: Pintilie O., Zaharia M., Drochioiu G. Pui A., Grădinaru R., Vasilache V., Sandu I.;	14.29
9. Diploma de Excelenta si Medalie de aur la Salonul International de Inventica PROINVENT, Editia a XV, Cluj-Napoca, organizat de UniversiIitatea Tehnica din Cuj-Napoca (22-24 martie 2017) pentru Proces de fosfatare microcristalina a pieselor pe baza de fier, autori: C. Bejinariu, I. Sandu, C. Predescu, Violeta Vasilache, C. Munteanu, A.V. Sandu, Viorica Vasilache , I.G. Sandu	12.50
10. Diploma de Excelenta si Medalie de aur cu mențiune specială la Salonul International de Inventica PROINVENT, Editia a XV, Cluj-Napoca, organizat de UniversiIitatea Tehnica din Cuj-Napoca (22-24 martie 2017) pentru Halocameră artificială, autori: I. Sandu, M. Canache, C.M. Știrbu, I.C. Știrbu, A.V. Sandu, M. Chirazi, Viorica Vasilache ;	14.29
11. Medalie de aur la Salonul Inovării și Cercetării Ugal Invent, 19-20 oct. 2017, Galați pentru Halocamere, autori: autori: I. Sandu, C.M. Știrbu, M. Chirazi, A.V. Sandu, M. Canache, I.G. Sandu, V. Vasilache , I.C. Știrbu,;	12.50
	Total = 148.24
17. Premii ale Academiei Române	
18. Alte premii naționale ale instituțiilor culturale	
19. Participări la manifestări științifice	
Internationale (internaționale: președinte comitet organizare/consiliu științific, 25 puncte pentru fiecare activitate; membru comitet organizare/consiliu științific, 15 puncte pentru fiecare activitate; moderator de panel, 15 puncte pentru fiecare activitate; raportor pe secțiuni/paneluri, 10 puncte pentru fiecare activitate)	
Membru in comitetul de organizare a fiecarei editii a EUROINVENT-EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION, organizat in luna mai a fiecarui an incepand cu 2009, la Iasi de Universitatea Alexandru Ioan Cuza, Forumul Inventatorilor Romani, Europe Direct Iasi, Universitatea Tehnica Gheorghe Asachi Iasi	15x 10 editii = 150



(http://www.euroinvent.org/archive/catalogues/)	Total = 150.00
1. I. SANDU, V. VASILACHE, C. MANEA, O. FLORESCU, M. PĂDURARU, P.O. TĂNASĂ, D.E. COLBU, C.T. IURCOVSCH, Direcții actuale în atragerea tinerilor spre activitatea de cercetare (Current directions in attracting young people to research), Workshop Internațional Creșterea relevanței învățământului universitar tehnic în relație cu dezvoltarea industrială regională , Ediția a II –a, Universitatea Dunărea de Jos, Galați, 9-10 Mai 2018, Ed. GUP, Galati University Press, ISBN 978-606-696-111-0, 2018, pp. 8-9;	10
2. I. SANDU, V. VASILACHE, D.E. COLBU, O. FLORESCU, C.T. IURCOVSCH, C. MANEA, M. PĂDURARU, P.O. TĂNASĂ, Conservarea bunurilor de patrimoniu natural și cultural, direcție prioritară a salvagărdării zonelor defavorizate (Conservation of natural and cultural heritage assets, the priority of safeguarding deprived areas), Workshop Internațional Creșterea relevanței învățământului universitar tehnic în relație cu dezvoltarea industrială regională , Ediția a II –a, Universitatea Dunărea de Jos, Galați, 9-10 Mai 2018, Ed. GUP, Galati University Press, ISBN 978-606-696-111-0, 2018, pp. 10-11;	10
3. A. GHAVIDALESFAHLAN, I. SANDU, V. VASILACHE, <i>Stadiul domeniului normal de variație a echilibrului hidric pentru diferite esențe de lemn nou și vechi (Studies on the normal domain of variation of hidric equilibrium for different essences of new and old wood)</i> , Workshop Internațional Creșterea relevanței învățământului universitar tehnic în relație cu dezvoltarea industrială regională , Ediția a II –a, Universitatea Dunărea de Jos, Galați, 9-10 Mai 2018, Ed. GUP, Galati University Press, ISBN 978-606-696-111-0, 2018, pp. 20-21.	10
4.I. SANDU, Petru Ovidiu TANASA, Marius PADURARU, Daniel POTOLINCA, Viorica VASILACHE, <i>Autentification of an ancient violin using dendrochronology assisted by other instrumental methods for determination of archaeometric characteristics</i> , The Fourth International Conference New Trends in Environmental and Materials Engineering (TEME) 25-27 October 2017, Galați, Romania, plenary conference, 26,10,2017, ora 11,00-11,30, Book Abstracts, p. 14.	10
5.C.-T. IURCOVSCHI, V. VASILACHE, I. SANDU, O. TĂNASĂ, M. PĂDURARU, D. POTOLINCA, I.C. NEGRU, D.E. COLBU, <i>Use of nanomaterials in preservation and restoration of cultural heritage objects</i> , The Fourth International Conference New Trends in Environmental and Materials Engineering (TEME) 25-27 October 2017, GALAȚI, ROMANIA, communication, 27,10,2017, ora 14,30-14,50, Book Abstracts, p. 19.	10
6.M. BOUTULIC (HAULICA), P.O. TANASA, M. PADURARU, D. POTOLINCA, V. VASILACHE, I. SANDU, <i>The evolution of conservation of old documents from archives. case-studies</i> , The Fourth International Conference New Trends in Environmental and Materials Engineering (TEME) 25-27 October 2017, GALAȚI, ROMANIA, Poster P68, Book Abstracts, p. 90.	10
7.O. FLORESCU, M. BOUTULICA (HAULICA), V. VASILACHE, I. SANDU, <i>A Case-Study Regarding the Evolution of Conservation State of Some Artefacts Made of Organic Matter From the Poni-Cernatescu Museum</i> , The Fourth International Conference New Trends in Environmental and Materials	10



Engineering (TEME) 25-27 October 2017, Galați, Romania, Poster P69, Book Abstracts, p. 90.	
8.M. ZAHARIA, O. PINTILIE, G. DROCHIOIU, A. PUI, R. GRADINARU, L.C, TRINCA, V. VASILACHE , I. SANDU, <i>Decontamination of Nitrophenolic Pollutants and Metabolic Inhibitors by Yeast <i>Sacharomyces Cerevisiae</i></i> , The Fourth International Conference New Trends in Environmental and Materials Engineering (TEME) 25-27 October 2017, Galați, Romania, Poster P5, Book Abstracts, p. 42.	10
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