



## Anexa nr. 1

*Formular de auto-evaluare a performanțelor, în vederea obținerii unei gradații de merit*  
**Institutul de Cercetări interdisciplinare – Departamentul Științe**  
**CS II Vasilache Viorica**

CRITERII	DESCRIPTORI	PUNCTAJUL ACORDAT
I. ACTIVITATEA DE CERCETARE (80%)	<p><b>1. Articole științifice publicate în extenso in reviste cotate Web of Science, Clarivate Analytics</b></p> <ol style="list-style-type: none"> <li>I.G. SANDU, <b>V. VASILACHE</b>, I. SANDU, F.A. TENCARIU, A.V. SANDU, Study on the Middle Bronze Age Disc-Butted Axe Ornament from Archaeometallurgical Point of View, <b>APPLIED SCIENCES-BASEL</b>, <b>11</b>, 21, 2021, Article Number: 9814, DOI: 10.3390/app11219814, (autor corespondent), Impact Factor =<b>2.679</b>, AIS = <b>0.409</b>;</li> <li>A. GHAVIDEL, M. BAK, T. HOFMANN, <b>V. VASILACHE</b>, I. SANDU, Evaluation of some wood-water relations and chemometric characteristics of recent oak and archaeological oak wood (Quercus robur) with archaeometric value, <b>JOURNAL OF CULTURAL HERITAGE</b>, <b>51</b>, 2021, pp. 21-28, DOI: 10.1016/j.culher.2021.06.01, Impact Factor =<b>2.955</b>, AIS = <b>0.556</b>;</li> <li>O. FLORESCU, R. HRITAC, M. HAULICA, I. SANDU, I. STANCULESCU, <b>V. VASILACHE</b>, Determination of the Conservation State of Some Documents Written on Cellulosic Support in the Poni-Cernatescu Museum, Iasi City in Romania, <b>APPLIED SCIENCES-BASEL</b>, <b>11</b>, 18, 2021, Article Number: 8726, DOI: 10.3390/app11188726, (autor corespondent), Impact Factor =<b>2.679</b>, AIS = <b>0.409</b>;</li> <li>A. GHAVIDEL, M. BAK, T. HOFMANN, R. HOSSEINPOURPIA, <b>V. VASILACHE</b>, I. SANDU, Comparison of chemical compositions in wood and bark of Persian silk tree (Albizia julibrissin Durazz.), <b>WOOD MATERIAL SCIENCE &amp; ENGINEERING</b>, 2021, DOI: 10.1080/17480272.2021.1953141, Impact Factor =<b>2.553</b>, AIS = <b>0.308</b>;</li> <li>D.E. COLBU, I. SANDU, <b>V. VASILACHE</b>, K. EARAR, E.D. PARASCHIV, I.G. SANDU, D.B. ILIESCU, A.V. SANDU, Study on the chemical composition of teak wood extracts in different organic solvents, <b>IFOREST-BIOGEOSCIENCES AND FORESTRY</b>, <b>14</b>, 2021, pp. 329-336, DOI: 10.3832/ifor3717-014, Impact Factor =<b>1.836</b>, AIS = <b>0.400</b>;</li> <li>A. DROB, <b>V. VASILACHE</b>, N. BOLOHAN, The Interdisciplinary Approach of Some Middle Bronze Age Pottery from Eastern Romania, <b>APPLIED SCIENCES-BASEL</b>, <b>11</b>, 11, 2021, Article Number: 4885, DOI: 10.3390/app11114885, (autor corespondent), Impact Factor =<b>2.679</b>, AIS = <b>0.409</b>;</li> <li><b>V. VASILACHE</b>, V. DIACONU, O. MIRCEA, A. DROB, I. SANDU, The Archaeometallurgical Evaluation of Three Bronze Socketed Axes, Discovered in Eastern Romania, <b>APPLIED</b></li> </ol>	<p>60 puncte x AIS) + 25  Pentru articolele publicate in calitate de autor principal (prim autor sau autor corespondent)</p> <p>(60 puncte x AIS + 25) / număr autori  Pentru articolele publicate in calitate de co-autor</p> <p align="right"><b>49.54</b></p> <p align="right"><b>11.672</b></p> <p align="right"><b>49.54</b></p> <p align="right"><b>7.247</b></p> <p align="right"><b>6.125</b></p> <p align="right"><b>49.54</b></p> <p align="right"><b>49.54</b></p>



	<p><b>SCIENCES-BASEL</b>, <b>11</b>, 4, 2021, Article Number: 1811, DOI: 10.3390/app11041811, Impact Factor = <b>2.679</b>, AIS = <b>0.409</b>;</p> <p>8. A. GHAVIDEL, J. GELBRICH, A. KUQO, <b>V. VASILACHE</b>, I. SANDU, Investigation of Archaeological European White Elm (<i>Ulmus laevis</i>) for Identifying and Characterizing the Kind of Biological Degradation, <b>HERITAGE</b>, <b>3</b>, 4, 2021, pp. 1083-1093, DOI: 10.3390/heritage3040060, Impact Factor = <b>0</b>, AIS = <b>0</b>;</p> <p>9. A. GHAVIDEL, R. HOSSEINPOURPIA, H. MILITZ, <b>V. VASILACHE</b>, I. SANDU, Characterization of Archaeological European White Elm (<i>Ulmus laevis</i> P.) and Black Poplar (<i>Populus nigra</i> L.), <b>FORESTS</b>, <b>11</b>, 12, 2020, Article Number: 1329, DOI: 10.3390/f11121329, Impact Factor = <b>2.221</b>, AIS = <b>0.523</b>;</p> <p>10. A. GHAVIDEL, A. SCHEGLOV, V. KARIUS, C. MAI, A. TARMIAN, W. VIOEL, V. VASILACHE, I. SANDU, In-depth studies on the modifying effects of natural ageing on the chemical structure of European spruce (<i>Picea abies</i>) and silver fir (<i>Abies alba</i>) woods, <b>JOURNAL OF WOOD SCIENCE</b>, <b>66</b>, 1, 2020, Article Number: 77, DOI:10.1186/s10086-020-01924-w, Impact Factor = <b>2.17</b>, AIS = <b>0.435</b>;</p> <p>11. M. BOUTIUC (HAULICA), O. FLORESCU, <b>V. VASILACHE</b>, I. SANDU, The Comparative Study of the State of Conservation of Two Medieval Documents on Parchment from Different Historical Periods, <b>MATERIALS</b>, 2020, <b>13</b>, 4766; doi:10.3390/ma13214766, (autor corespondent), Impact Factor = <b>3.623</b>, AIS = <b>0.597</b>;</p> <p>12. A. GHAVIDEL, T. HOFMANN, M. BAK, I. SANDU, <b>V. VASILACHE</b>, Comparative archaeometric characterization of recent and historical oak (<i>Quercus</i> spp.) wood, <b>WOOD SCIENCE AND TECHNOLOGY</b>, <b>54</b>, 5, pp. 1121-1137, 2020, Impact Factor = <b>2.506</b>, AIS = <b>0.503</b>;</p> <p>13. M. BOUTIUC, V. VASILACHE, O. FLORESCU, M. BREBU, I. SANDU, P.O. TANASA, I.C. NEGRU, Study of the Effects of Skin Surface Lipids on Old Cellulose-Support Documents, <b>INTERNATIONAL JOURNAL OF CONSERVATION SCIENCE</b>, <b>11</b>, 3, 2020, pp. 731-746, Impact Factor = <b>0.00</b>, AIS = <b>0.00</b>;</p> <p>14. P.O. TANASA, I. SANDU, V. VASILACHE, I.G. SANDU, I.C. NEGRU, A.V. SANDU, Authentication of a Painting by Nicolae Grigorescu Using Modern Multi-Analytical Methods, <b>APPLIED SCIENCES-BASEL</b>, <b>10</b>, 10, 2020, Article Number: 3558, Impact Factor = <b>2.679</b>, AIS = <b>0.409</b>;</p> <p>15. T.C. IURCOVSCHI, <b>V. VASILACHE</b>, I. SANDU, Z. MARIUS, O. PINTILIE, A.V. SANDU, New Ecological Solutions Involved in the Cleaning of a 19th Century Icon, <b>APPLIED SCIENCES-BASEL</b>, <b>10</b>, 3, 2020, Article Number: 1175, (autor corespondent), Impact Factor = <b>2.679</b>, AIS = <b>0.409</b>;</p> <p>16. <b>V. VASILACHE</b>, V. KAVRUK, A-F. TENCARIU, OM, SEM-EDX, and micro-FTIR analysis of the Bronze Age pottery from the Baile Figa salt production site (Transylvania, Romania), <b>MICROSCOPY RESEARCH AND TECHNIQUE</b>, <b>83</b>, 6, 2020, pp. 604-617, Impact Factor = <b>2.769</b>, AIS = <b>0.363</b>;</p> <p>17. N. AL-SHARAI, I.C.A. SANDU, <b>V. VASILACHE</b>, I. SANDU, Recognition of natural silk fibers, dyes and metal threads of</p>	<p><b>5.00</b></p> <p><b>11.276</b></p> <p><b>6.388</b></p> <p><b>60.82</b></p> <p><b>11.036</b></p> <p><b>3.571</b></p> <p><b>8.257</b></p> <p><b>49.54</b></p> <p><b>46.78</b></p> <p><b>41.20</b></p>
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	historical Romanian textile fragments using the multi-analytical techniques approach, <b>TEXTILE RESEARCH JOURNAL</b> , 90, 15-16, 2020, pp. 1671-1688, (autor corespondent), Impact Factor = <b>1.82</b> , AIS = <b>0.27</b> ;	
18.	I. SANDU, P.O. TANASA, I.C.A. SANDU, I.C. NEGRU, A.V. SANDU, <b>V. VASILACHE</b> , Authentication of an Old Violin by Multianalytical Methods, <b>APPLIED SCIENCES-BASEL</b> , 10, 1, 2020, pp. Impact Factor = <b>2.679</b> , AIS = <b>0.409</b> ;	<b>8.257</b>
19.	A.V. SANDU, <b>V. VASILACHE</b> , I.G. SANDU, JM SIELIECHI, IK KOUAME, PD MATASARU, I. SANDU, Characterization of the Acid-Base Character of Burned Clay Ceramics Used for Water Decontamination <b>MATERIALS</b> , 12, 23, 2019, Article Number: 3836, Impact Factor = <b>3.057</b> , AIS = <b>0.543</b> ;	<b>8.226</b>
20.	I. SANDU, C.T. IURCOVSCHI, I.G. SANDU, <b>V. VASILACHE</b> , I.C. NEGRU, M. BREBU, P.S. URSU, V. PELIN, Multianalytical Study for Establishing the Historical Contexts of the Church of the Holy Archangels from Cicau, Alba County, Romania, for its Promotion as a World Heritage Good I. Assessing the preservation-restoration works from the 18th century, <b>REVISTA DE CHIMIE</b> , 70, 7, 2019, pp 2538-2544, (autor corespondent), Impact Factor = <b>1.755</b> , AIS = <b>0.064</b> ;	<b>28.84</b>
21.	M. BOLAT; S. STOLERIU, <b>V. VASILACHE</b> , G. IOVAN, G. PANCU, A.V. SANDU, I. TARABOANTA, S.ANDRIAN, Comparative Study of Color Stability of Three Composite Materials, Treated by Finishing and Coated Sealing, After Immersion in Different Wholesale, <b>REVISTA DE CHIMIE</b> , 70, 5, 2019, pp. 1681-1684 Impact Factor = <b>1.755</b> , AIS = <b>0.064</b> ;	<b>3.605</b>
22.	I.G. SANDU, <b>V. VASILACHE</b> , 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, <b>REVISTA DE CHIMIE</b> , 69, 10, 2018, pp. 2826-2832, Impact Factor = <b>1,412</b> , AIS = <b>0.048</b> .	<b>3.097</b>
23.	M.E. FORTUNĂ <b>V. VASILACHE</b> , 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, <b>PLoS One</b> , Septembrie 2018, doi.org/10.1371/journal.pone.0202441, (autor corespondent), Impact Factor = <b>2.766</b> , AIS = <b>0.978</b> ;	<b>83.68</b>
24.	A. LOBIUC, <b>V. VASILACHE</b> , 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, <b>Molecules</b> , 2017, 22, 2111; doi:10.3390/molecules22122111, (autor corespondent), Impact Factor = <b>2.861</b> , AIS = <b>0.631</b> .	<b>62.86</b>
25.	P. SPIRIDON, I.C.A. SANDU, L. NICA, <b>V. VASILACHE</b> , I. SANDU, Archaeometric and Chemometric Studies Involved in the Authentication of Old Heritage Artefacts I. Contributions of the Iasi school of Conservation Science, <b>REVISTA DE CHIMIE</b> , 68, 9, 2017, pp. 2018-2027, (autor corespondent), Impact Factor = <b>1,232</b> , AIS = <b>0.047</b> .	<b>27.82</b>
26.	S.L. MARIN, G. MARDARE (BALUSESCU), M.P., C. ROMAN,	<b>27.82</b>



	<p>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, <b>REVISTA DE CHIMIE</b>, <b>68</b>, 9, 2017, pp. 2155-2159, (autor corespondent), Impact Factor = <b>1,232</b>, AIS = <b>0.047</b></p> <p>27. P. SPIRIDON, IRINA CRINA ANCA SANDU, LILIANA NICA, COSMIN TUDOR IURCOVSCHI, DUMITRU EUGEN COLBU, IOAN CRISTINEL NEGRU, VIORICA 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, <b>REVISTA DE CHIMIE</b>, <b>68</b>, 10, 2017, pp. 2422-2430, (autor corespondent), Impact Factor = <b>1,232</b>, AIS = <b>0.047</b>.</p> <p>28. 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>, <b>MATERIALE PLASTICE</b>, Bucharest, 54, 2, 186-189, 2017, Impact Factor = <b>1.248</b>, AIS = <b>0.066</b>;</p> <p>29. D. POTOLINCA, I.C. NEGRU, V. VASILACHE, C. ARSENE, M. PADURARU, I. SANDU, <i>Forensic expertise of the paper support of counterfeit documents</i>, <b>MATERIALE PLASTICE</b>, Bucharest, 54, 1, 41-45, 2017, Impact Factor = <b>1.248</b>, AIS = <b>0.066</b>;</p> <p>30. C.T. IURCOVSCHI, M. MUNTEANU, C.M. MANEA (AMARIEI), M.M. LUPAȘCU, I.C.A. SANDU, V. VASILACHE, I. SANDU, <i>The Impact Of The Treatment With Câmpeni Red Petroleum On A XVIII-Th Century Icon</i>, <b>CHEMISTRY JOURNAL OF MOLDOVA</b> (Chisineu), <b>12</b>, 1, 2017, (autor corespondent), Impact Factor = <b>0.0</b>, AIS = <b>0.0</b>;</p> <p>31. 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>, <b>RCS ADVANCES</b>, 7, 2017, No pp. 13919-13927, DOI: 10.1039/c7ra00231a, Impact Factor = <b>3.289</b>, AIS = <b>0.564</b>;</p>	<p><b>27.82</b></p> <p><b>4.137</b></p> <p><b>4.827</b></p> <p><b>25.00</b></p> <p><b>7.355</b></p>
2. Cărți științifice de autor (monografii, tratate, îndrumare, culegeri) publicate (pentru prima ediție*) în edituri:	<p>1. I. SANDU (coordonator), M.A. CREȚU, I.G. SANDU, V. VASILACHE, A.V. SANDU, G. MARUSIC, <b>Implicarea ceramicilor în potabilierea apelor subterane și de suprafață</b>, Ed. Univ. "Al.I.Cuza", Iași, 2018, 250p;</p> <p>2. G.D. Hânceanu, A.Simalcsik, R.D. Simalcsik, V. Diaconu, L. Munteanu, O. Mircea, V. Vasilache, <b>Arhiepiscopia Romanului și Bacăului. Cimitirul medieval și complexele laice din perimetrul sud-vestic al incintei bisericești. Rezultatele cercetării preventive din anul 2015</b>, Editura Istros a Muzeului Brăilei „Carol I”- Brăila și Editura „Constantin Matasă”- Piatra Neamț, 2021, 780p</p> <p>3. Contracte de cercetare științifică obținute prin competiție</p>	<p>în străinătate: 30 puncte la 100 pagini/număr autori, indexate WorldCat (<a href="https://www.worldcat.org/">https://www.worldcat.org/</a>)</p> <p>În țară acreditate de CNCS: 40 puncte la 100 pagini/număr de autori</p> <p>*pentru edițiile revizuite și adăugite, se va acorda jumătate din punctaj</p> <p><b>16.66</b></p> <p><b>45.71</b></p> <p>Finanțare internațională sau</p>



	<p>derulate în ultimii 5 ani prin Universitate</p> <p>1. <b>Proiect component P5</b> – 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=33.333 Euro)</p> <p><b>Proiect component P3</b> – 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 = 15.555 Euro)</p> <p><b>Membri</b> - 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: <b>EthnosalRo3</b> – Coordonator UAIC <a href="http://ethnosalro.uaic.ro/ethnosalro3/">http://ethnosalro.uaic.ro/ethnosalro3/</a> (Buget – 1.000.000 = 222.225 Euro)</p>	<p>națională Director de proiect 100 puncte x (valoarea grant în euro)/100.000 euro Membri echipa proiect 25 puncte x (valoarea grant în euro)/100.000 euro/nr e membri echipă</p> <p><b>33.33</b></p> <p><b>15.55</b></p> <p><b>3.70</b></p>
	<p>4. Brevete</p> <p>1. Dumitru Eugen COLBU, Ion SANDU, Viorica VASILACHE, Irina Crina Anca SANDU, Amir GHAVIDALESFAHLAN, Gheorghe COLBU, Ioan-Gabriel SANDU, Nicoleta COLBU, Andrei-Victor SANDU, <i>Procedeu de stopare a atacului insectofungic la artefactele vechi din lemn</i>”, Dosar OSIM nr. A 00248, 08.05.2020;</p> <p>2. IURCOVSCHI Cosmin Tudor, SANDU Ion, VASILACHE Viorica, SANDU Andrei Victor, SANDU Irina Crina Anca, SANDU Ion Gabriel, <i>Compoziție și proceseu de curățare umedă a picturilor, artefactelor policrome și poleirilor vechi</i>, Dosar OSIM nr. 15086, 09.08.2019;</p> <p>3. COLBU Dumitru Eugen, SANDU Ion, VASILACHE Viorica, SANDU Irina Crina Anca, COLBU Gheorghe, SANDU Ioan-Gabriel, COLBU Nicoleta, SANDU Andrei-Victor <i>Compoziție și procedeu de insectofungicizare și hidrofobizare a artefactelor din lemn vechi</i>, Dosar OSIM nr. A/00271, 03.05.2019</p> <p>4. SANDU Ioan Gabriel, SANDU Ion, EARAR Kamel, SANDU Andrei-Victor, VASILACHE Viorica, ȘTIRBU Cătălina – Mihaela, CRIȘAN DABIJA Radu Adrian, CHIRAZI Marin, VLADESCU Alina, COTRUȚ Mihai Cosmin VRÂNCEANU Maria Diana, <i>Sistem cu jacuzzi pentru termalism cu hidro/aeromasaj și tratamente în halocameră cu soloni</i>, Dosar OSIM nr. A00799, 12.10.2018;</p> <p>5. SANDU Ioan Gabriel, SANDU Ion, EARAR Kamel, SANDU Andrei-Victor, VASILACHE Viorica, ȘTIRBU Cătălina – Mihaela, CRIȘAN DABIJA Radu Adrian, CHIRAZI Marin, VLADESCU Alina, COTRUȚ Mihai Cosmin <i>Halocameră</i></p>	<p>internationale: 75 puncte/ număr de autori</p> <p>naționale: 25 puncte /număr autori</p> <p><b>2.78</b></p> <p><b>4.17</b></p> <p><b>3.13</b></p> <p><b>2.27</b></p> <p><b>2.50</b></p>



	<b>artificială în regim dinamic, cu autoreglare și multiple utilizări, Dosar OSIM nr. A00798, 12.10.2018;</b>	
	5. Produse și /sau servicii inovative cu impact economic demonstrabil prin documente emise de autorități legale (OSIM, RENAR, ASRO)	-
	6. Citări și recenzii ale creației de autor obținute în ultimii 5 ani (exclus autocitări/ o citare se va cuantifica o singură dată)	În reviste de specialitate indexate <i>Web of Science</i> , <i>Clarivate Analytics</i> : (10+20xAIS)/număr autori Notă: AIS-ul este al revistei care citează
	1. A. GHAVIDEL, R. HOSSEINPOURPIA, H. MILITZ, V. VASILACHE, I. SANDU, Characterization of Archaeological European White Elm ( <i>Ulmus laevis</i> P.) and Black Poplar ( <i>Populus nigra</i> L.), <b>FORESTS</b> , 11, 12, 2020, Article Number: 1329, DOI: 10.3390/f11121329, Impact Factor = <b>2.221</b> , AIS = <b>0.523</b>	citare în cărți din străinătate: 1 puncte / număr autori
	Citat de:	citare în cărți din țară: 0.25 puncte/număr autori
	1. Silva JL, Barata CS, Pissarra J, LIMITATIONS AND OBSTACLES ON WOOD IDENTIFICATION FROM SCULPTURES - ANALYSIS OF A SET OF GILDED AND POLYCHROMED FLEMISH ARTWORKS FROM THE 15th CENTURY, INTERNATIONAL JOURNAL OF CONSERVATION SCIENCE, 12, 2, 2021, p. 349-+, AIS = 0;	2
	2. Humar M., Balzano A, Krzysnik D, Lesar B, Assessment of Wooden Foundation Piles after 125 Years of Service, <b>FORESTS</b> , 12, 2, 2021, Article Number143, DOI10.3390/f12020143, AIS = <b>0.479</b> ;	3.916
	2.A. GHAVIDEL, J. GELBRICH, A. KUQO, V. VASILACHE, I. SANDU, Investigation of Archaeological European White Elm ( <i>Ulmus laevis</i> ) for Identifying and Characterizing the Kind of Biological Degradation, <b>HERITAGE</b> , 3, 4, 2021, pp. 1083-1093, DOI: 10.3390/heritage3040060, Impact Factor = 0, AIS = 0	
	Citat de :	
	1. Silva JL, Barata CS, Pissarra J, LIMITATIONS AND OBSTACLES ON WOOD IDENTIFICATION FROM SCULPTURES - ANALYSIS OF A SET OF GILDED AND POLYCHROMED FLEMISH ARTWORKS FROM THE 15th CENTURY, INTERNATIONAL JOURNAL OF CONSERVATION SCIENCE, 12, 2, 2021, p. 349-+, AIS = 0;	2
	3.A. GHAVIDEL, A. SCHEGLOV, V. KARIUS, C. MAI, A. TARMIAN, W. VIOEL, V. VASILACHE, I. SANDU, In-depth studies on the modifying effects of natural ageing on the chemical structure of European spruce ( <i>Picea abies</i> ) and silver fir ( <i>Abies alba</i> ) woods, <b>JOURNAL OF WOOD SCIENCE</b> , 66, 1, 2020, Article Number: 77, DOI:10.1186/s10086-020-01924-w, Impact Factor = <b>2.17</b> , AIS = <b>0.435</b> ;	
	Citat de:	
	1. Silva JL, Barata CS, Pissarra J, LIMITATIONS AND OBSTACLES ON WOOD IDENTIFICATION FROM SCULPTURES - ANALYSIS OF A SET OF GILDED AND POLYCHROMED FLEMISH ARTWORKS FROM THE 15th CENTURY, INTERNATIONAL JOURNAL OF CONSERVATION SCIENCE, 12, 2, 2021, p. 349-+, AIS = 0;	1.25



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	<p>44. M. BOUTULICA (căsătorită HAULICA), P.-O. TANASA, I.-C. NEGRU, <b>V. VASILACHE</b>, I. SANDU. <i>Rolul Arhivelor în păstrarea și conservarea documentelor</i>, <b>Al XII-lea Simpozion International CUCUTENI 5000 REDIVIVUS. Științe exacte și mai puțin exacte</b>, (Universitatea Tehnica Gheorhe Asachi Iași, 19-21.09. 2017, Iași, Comunicare în plen, 19.09.2017, ora 16.45-18.00, p. 7.</p>	<b>10</b>
	<p>45. C.T. IURCOVSCHI, P.O. TANASA, I.C. NEGRU, D.-E. COLBU, I.G. SANDU, <b>V. VASILACHE</b>, I. SANDU. <i>Autentificarea artefactelor și a documentelor vechi</i>, <b>Al XII-lea</b></p>	



	<p><b>Simpozion International CUCUTENI 5000 REDIVIVUS. Științe exacte și mai puțin exacte</b>, (Universitatea Tehnică Gheorhe Asachi Iași, 19-21.09. 2017, Iași, Comunicare în plen, 19.09.2017, ora 16.30-16.45, p. 7.</p> <p>46. D.-E. COLBU, C.-T. IURCOVSCHI, P.-O. TANASA, I.-C. NEGRU, A.-V. SANDU, V. VASILACHE, I. SANDU, <i>Investigarea științifică a operelor de artă</i>, <b>Al XII-lea Simpozion International CUCUTENI 5000 REDIVIVUS. Științe exacte și mai puțin exacte</b>, (Universitatea Tehnică Gheorhe Asachi Iași, 19-21.09. 2017, Iași, Comunicare în plen, 19.09.2017, ora 19.00-19.15, p. 10.</p> <p>47. C.T. IURCOVSCHI, V. VASILACHE, I. SANDU, O. TANASA, M. PADURARU, D. POTOLINCA, I.C. NEGRU, D.E. COLBU, <i>A challenge to protect our cultural heritage</i>, <b>12<sup>th</sup> International Symposium Present Environment and Sustainable Development</b> (Book Abstracts), 2-4 june, 2017, Alexandru Ioan Cuza University of Iași, p. 10.</p>	10
	<p><b>Nationale</b></p> <p>1. O. MIRCEA, V. VASILACHE, I. SANDU, Rezultate preliminare obținute în cadrul proiectelor de cercetare derulate prin Laboratorul de Restaurare-Conservare al Complexului Muzeal Național Neamț, <b>Ediția II a Simpozionului Național PETRODAVA</b>, 22-24 iunie 2021, Complexul Muzeal Național Neamț.</p> <p>2. V. VASILACHE, O. MIRCEA, I. SANDU, G.-D. HÂNCEANU, <i>Tipuri de degradări întâlnite la artefacte din colecțiile Muzeului de Istorie Roman. Rezultate preliminare obținute în cadrul proiectului de cercetare „Studii și intervenții pe monede și podoabe descoperite în urma cercetărilor arheologice preventive efectuate în județul Neamț”</i>, <b>Ediția II a Simpozionului Național PETRODAVA</b>, 22-24 iunie 2021, Complexul Muzeal Național Neamț.</p> <p>3. A. DROB, N. BOLOHAN, V. VASILACHE, <i>Pictură și pigmenți în Eneoliticul din estul României. Studiu de caz: ceramica culturii Cucuteni</i>, Zilele Universității „Alexandru Ioan Cuza” din Iași, Simpozion Național, ediția a XV-a, 29-30 octombrie 2021.</p> <p>4. V. VASILACHE, A. DROB, <i>Studiul artefactelor arheologice prin implicarea tehnicilor arheometrice (OM, SEM-EDX, micro-FTIR, analiză termică), Metode și tehnici de cercetare în arheologia interdisciplinară. Fundamente și practici, Baza de cercetare arheologică „Acad. Mircea Petrescu-Dîmbovița”</i>, Cucuteni-Băiceni, 26 iunie 2021.</p> <p>5. O. MIRCEA, V. VASILACHE, <i>Restaurarea unor obiecte de podoabă descoperite la Arhiepiscopia Romanului și Bacăului în anul 2015</i>, <b>Ediția I a Simpozionului Național PETRODAVA</b>, 23-24 mai 2019, Complexul Muzeal Județean Neamț.</p> <p>6. V. VASILACHE, O. MIRCEA, <i>Studiul unor obiecte de podoabă din colecțiile Muzeului de Istorie Roman</i>, <b>Ediția I a Simpozionului Național PETRODAVA</b>, 23-24 mai 2019, Complexul Muzeal Județean Neamț.</p>	5 5 5 5 5 5



	7. <b>V. VASILACHE</b> , O. MIRCEA, G.D. HÂNCEANU, <i>Studiul unor piese de vestimentație descoperite la Arhiepiscopia Romanului și Bacăului, Conferința Națională de Conservare - Restaurare „Doina Darvaș” – CONScience 2019</i> , 6-8 noiembrie 2019, organizată de Muzeul Național al Satului „Dimitrie Gusti”, București.	5
	8. A. RUSTOIU, S. ȚURCANU, <b>V. VASILACHE</b> , <i>Un nou colier în formă de coroană descoperit în aria culturii Poienești-Lucașeuca. Date preliminare</i> , Noutăți arheologice la Institutul de Arheologie din Iași. Campania 2018, <b>Zilele Academice Ieșene. Ediția a XXXIII-a, 2018</b> , Institutul de Arheologie Iași.	
	8.Lucrări științifice în rezumat	In reviste indexate <i>Web of Science</i> , <i>Clarivate Analytics</i> , cu factor de impact (20xAIS+5)/număr autori
	9.Profesor invitat la universități, centre și institute de cercetare (la inițiativa probată a instituției gazdă)	-
	10.Poziții de conducere în organizații științifice ori profesionale	-
	11.Membru al Academiei Romane și al academiilor din străinătate	-
	12.Editor, membru în echipa editorială la (se va puncta o singură dată pentru fiecare perioadă de 5 ani)  Secretar în Comitetul de redacție al International Journal of Conservation Science, ISSN: 2067-533X, publicație pe adresa <a href="http://www.ijcs.uaic.ro">www.ijcs.uaic.ro</a> (revista ISI)	Reviste de specialitate indexate <i>Web of Science</i> , <i>Clarivate Analytics</i> , Editor 20 puncte/activitate Membru în echipa editorială: 15 puncte/activitate  Anale UAIC, reviste UAIC, reviste indexate BDI Editor:0,5 puncte/activitate; Membru în echipa editorială: 0.1 puncte/activitate  15
	13.Referent ( peer-reviewer)	-
	<b>TOTAL</b>	<b>2128.506</b>
II. ACTIVITATE INSTITUȚIONALĂ (20%)	1.1. Activități de promovare UAIC; caravana UAIC, participare târguri, expoziții, evenimente instituționale	5 puncte pentru fiecare activitate/pe an
	2. <b>Medalie de aur</b> la International Exhibition Inventcor DEVA, 2020, pentru <i>Dynamic artificial halochamber with autoregulation and multiple uses</i> , autori: Sandu I.G., Sandu I., Earar K., Sandu A.V., Vasilache V., Știrbu C.M., Crișan Dabija R.A., Chirazi M., Vlădescu A., Cotruț M.C.	5
	3. <b>Medalie de bronz</b> la 5th Istanbul International Inventios – ISIF20, Turcia 2020, pentru <i>Dynamic artificial halochamber with autoregulation and multiple uses</i> , autori: Sandu I.G., Sandu I., Earar K., Sandu A.V., Vasilache V., Știrbu C.M., Crișan Dabija R.A., Chirazi M., Vlădescu A., Cotruț M.C.	5
	4. <b>Diplomă de Excelență și Medalia PRO INVENT</b> la Salonul Internațional de Inventică PROINVENT, Ediția a XVII-a 2019, Cluj Napoca, România pentru <i>Sistem cu jacuzzi pentru termalism cu hidro/aeromasaj și tratamente în halocameră cu soloni</i> , autori: Sandu I.G., Sandu I., Earar K., Sandu A.V., <b>Vasilache V.</b> , Știrbu C.M., Crișan Dabija R.A., Chirazi M., Vlădescu A., Cotruț M.C. Vrâncanu M.D;	5
	5. <b>Diplomă de Excelență și Medalia de Aur</b> la Salonul Internațional de Inventică PROINVENT, Ediția a XVII-a 2019, Cluj Napoca, România pentru <i>Halocameră artificială în regim dinamic, cu autoreglare și</i>	5



	<p><i>multiple utilizări</i> autori: Sandu I.G., Sandu I., Earar K., Sandu A.V., <b>Vasilache V.</b>, Știrbu C.M., Crișan Dabija R.A., Chirazi M., Vlădescu A., Cotruț M.C.</p> <p>6. <b>Medalie de aur</b> la INOVA-BUDI UZOR 2019, 44<sup>th</sup> International Invention Show, Osijek, Croatia, 13-16 Nov. 2019, pentru <i>Hydromassage jacuzzi sistem with hydro/aeromassage and salt aerosols halochamber</i>, autori: Sandu I.G., Sandu I., Earar K., Sandu A.V., <b>Vasilache V.</b>, Știrbu C.M., Crișan Dabija R.A., Chirazi M., Vlădescu A., Cotruț M.C. Vrânceanu M.D;</p> <p>7. <b>Medalie de argint</b> la INOVA-BUDI UZOR 2019, 44<sup>th</sup> International Invention Show, Osijek, Croatia, 13-16 Nov. 2019, pentru <i>Dynamic artificial halochamber with autoregulation and multiple uses</i>, autori: Sandu I.G., Sandu I., Earar K., Sandu A.V., <b>Vasilache V.</b>, Știrbu C.M., Crișan Dabija R.A., Chirazi M., Vlădescu A., Cotruț M.C.</p> <p>8. <b>Medalie de aur</b> la INFOINVENT 2019, 20-23 nov., Chisinău, pentru <i>Halocameră artificială în regim dinamic, cu autoreglare și multiple utilizări</i> autori: Sandu I.G., Sandu I., Earar K., Sandu A.V., <b>Vasilache V.</b>, Știrbu C.M., Crișan Dabija R.A., Chirazi M., Vlădescu A., Cotruț M.C.</p> <p>9. <b>Medalie de bronz</b> la INFOINVENT 2019, 20-23 nov., Chisinău, pentru <i>Sistem cu jacuzzi pentru termalism cu hidro/aeromasaj și tratamente în halocameră cu solioni</i>, autori: Sandu I.G., Sandu I., Earar K., Sandu A.V., <b>Vasilache V.</b>, Știrbu C.M., Crișan Dabija R.A., Chirazi M., Vlădescu A., Cotruț M.C. Vrânceanu M.D;</p> <p>10. <b>Medalie de aur</b> la International Invention and Innovation Show – INTARG POLAND, 2019 pentru <i>Hydromassage jacuzzi sistem with hydro/aeromassage and salt aerosols halochamber</i>, autori: Sandu I.G., Sandu I., Earar K., Sandu A.V., <b>Vasilache V.</b>, Știrbu C.M., Crișan Dabija R.A., Chirazi M., Vlădescu A., Cotruț M.C. Vrânceanu M.D;</p> <p>11. <b>Medalie de aur</b> la UGAL INVENT, 16-18 oct. 2019, pentru <i>Hydromassage jacuzzi sistem with hydro/aeromassage and salt aerosols halochamber</i>, autori: Sandu I.G., Sandu I., Earar K., Sandu A.V., <b>Vasilache V.</b>, Știrbu C.M., Crișan Dabija R.A., Chirazi M., Vlădescu A., Cotruț M.C. Vrânceanu M.D;</p> <p>12. <b>Medalie de argint</b> la International Invention &amp; Trade Expo LONDON 2019, pentru <i>Hydromassage jacuzzi sistem with hydro/aeromassage and salt aerosols halochamber</i>, autori: Sandu I.G., Sandu I., Earar K., Sandu A.V., <b>Vasilache V.</b>, Știrbu C.M., Crișan Dabija R.A., Chirazi M., Vlădescu A., Cotruț M.C. Vrânceanu M.D;</p> <p>13. <b>Gold Medal</b> 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, <b>Viorica Vasilache</b>, I.G. Sandu</p> <p>14. <b>Gold Medal</b> la International Invention Innovation Competition in Canada organized by Toronto International Society on Innovation&amp;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, <b>V. Vasilache</b>;</p> <p>15. <b>Gold Medal</b> la 2<sup>nd</sup> 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. <b>Vasilache V.</b>, Sandu A.V;</p> <p>16. <b>Bronze Medal</b> la 2<sup>nd</sup> Istambul International Inventions Fair ISIF 17, Istambul, Turcia (2-4 march 2017) pentru <i>Treatment of surface and</i></p>	<p>5</p> <p>5</p> <p>5</p> <p>5</p> <p>5</p> <p>5</p> <p>5</p> <p>5</p> <p>5</p> <p>5</p> <p>5</p> <p>5</p> <p>5</p> <p>5</p> <p>5</p>
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	<p><i>underground water with ceramics</i>, autori: I. Sandu, M.A. Crețu, T. Lupașcu, J. Sieliechi, A.V. Sandu, I. Kaoume, <b>V. Vasilache</b>, I.G. Sandu.</p> <p>17. <b>Special Prize</b> la 2<sup>nd</sup> 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. <b>Vasilache V.</b>, Sandu A.V;</p> <p>18. <b>Special Award</b> la Egypt Invent - International Exhibition of Inventions organized by The Egyptian Society for Women &amp; Youth Inventor &amp; 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, <b>V. Vasilache</b>, A. Matei, I.G. Sandu;</p> <p>19. <b>Gold Medal</b> 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, <b>V. Vasilache</b>;</p> <p>20. <b>Diplomă de Excelență</b> pentru participarea în cadrul Salonului Internațional de Inventică EUROINVENT (25-27 mai 2017) cu: Photocatalytic degradation of 2,4-dinitrophenol (DNP) by ZnFe<sub>2</sub>O<sub>4</sub> nanoparticles in aqueous solution, autori: Pintilie O., Zaharia M., Drochioiu G. Pui A., Grădinaru R., Vasilache V., Sandu I.;</p> <p>21. <b>Diploma de Excelență și Medalie de aur</b> la Salonul Internațional de Inventică PROINVENT, Editia a XV, Cluj-Napoca, organizat de Universitatea Tehnică din Cluj-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, <b>Viorica Vasilache</b>, I.G. Sandu</p> <p>22. <b>Diploma de Excelență și Medalie de aur cu mențiune specială</b> la Salonul Internațional de Inventică PROINVENT, Editia a XV, Cluj-Napoca, organizat de Universitatea Tehnică din Cluj-Napoca (22-24 martie 2017) pentru Halocameră artificială, autori: I. Sandu, M. Canache, C.M. Știrbu, I.C. Știrbu, A.V. Sandu, M. Chirazi, <b>Viorica Vasilache</b>;</p> <p>23. <b>Medalie de aur</b> la Salonul Inovării și Cercetării Ugal Invent, 19-20 oct. 2017, Galați pentru Halocamere, autori: I. Sandu, C.M. Știrbu, M. Chirazi, A.V. Sandu, M. Canache, I.G. Sandu, <b>V. Vasilache</b>, I.C. Știrbu,;</p> <p>23.1. Responsabil evaluări ARACIS</p>	<p>5</p> <p>5</p> <p>5</p> <p>5</p> <p>5</p> <p>5</p> <p>5</p>
	<p>24. Organizare manifestări științifice (conferințe, congrese, colocvii) și școli de vară demonstrabile cu link la pagina web</p> <p><b>Membru în comitetul de organizare</b> a editiei a 13 – a EUROINVENT-EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION, 20-22 mai 2021, Iasi (<a href="http://www.euroinvent.org/archive/catalogues/">http://www.euroinvent.org/archive/catalogues/</a>)</p> <p><b>Membru în comitetul de organizare</b> a editiei a 12 – a EUROINVENT-EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION, 21-23 mai 2020, Iasi (<a href="http://www.euroinvent.org/archive/catalogues/">http://www.euroinvent.org/archive/catalogues/</a>)</p> <p><b>Membru în comitetul de organizare</b> a editiei a 11 – a EUROINVENT-EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION, 16-18 mai 2019, Iasi, (<a href="http://www.euroinvent.org/archive/catalogues/">http://www.euroinvent.org/archive/catalogues/</a>)</p> <p><b>Membru în comitetul de organizare</b> a editiei a 10 – a EUROINVENT-EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION,</p>	<p>Internaționale: Coordonator: 15 puncte/activitate Membru în comitetul de organizare : 5 puncte/activitate Nationale Coordonator: 10 puncte/activitate Membru în comitetul de organizare : 3 puncte/activitate</p> <p>5</p> <p>5</p> <p>5</p>



	17-19 mai 2018, Iasi, ( <a href="http://www.euroinvent.org/archive/catalogues/">http://www.euroinvent.org/archive/catalogues/</a> ) <b>Membru în comitetul de organizare</b> a editiei a 9 – a EUROINVENT-EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION, 25-27 mai 2017, Iasi, ( <a href="http://www.euroinvent.org/archive/catalogues/">http://www.euroinvent.org/archive/catalogues/</a> )	5 5
	25. Responsabilități în cadrul Universității, facultăților și în cadrul departamentelor conexe activităților de cercetare  Coordonator al Laboratorului de Investigare și Conservare Științifică a Bunurilor de Patrimoniu Cultural din cadrul Platformei ARHEOINVEST a UAIC	Coordonator laborator, grup, colectiv: 10 puncte anual  50
	26. Responsabilități în cadrul Senatului Universității/Consiliului facultății/Consiliul departamentului	-
	27. Membru în comisii ale universității avizate de Senat (Comisia de Etică, Comisia pentru Managementul Calității, Comisia de Regulamente etc.)  Membru în Comisia de Etică	10 puncte anual/comisie  10
	28. Membru în comisii concurs în vederea ocupării unui post didactic ori de cercetare în învățământul universitar 1.Comisie de concurs CSII Felix Adrian TENCARIU – 2020 2. Comisie de concurs ACS Ana DROB – 2020 3.Comisia de concurs CSIII Alin Mihaela-Pintilie - 2019	5 puncte/comisie  5 5 5
	29. Membru comisii de doctorat (admitere, îndrumare și susținere publică) Membru în comisia de îndrumare a doctoranzilor de la Geoștiințe din cadrul Facultății de Geografie și Geologi, UAIC care au susținut teza. 1.Vasile PELIN -2018 2. Daniel POTOLINCĂ - 2018 3. Marius MUNTEANU - 2018 4. Marius PĂDURARU - 2018 5. Nidal El-SHARAIIRI (Iordania) - 2020 6. Dumitru Eugen COLBU - 2020 7. Maria BOUTIUC (cas. HAULICĂ) - 2020 8. Amir GHAVIDELSFAHLAND (Iran) – 2021 9.Ana DOROFTEI (căs. DROB) de la Facultatea de Istorie - 2021  Cei care urmeaza sa susțină 1. Oana FLORESCU 2. Petru Ovidiu TĂNASE 3. Cosmin Tudor IURCOVSCHI 4. Cristiana MANEA	Străinătate: 5 puncte pentru fiecare activitate; țară: 2 puncte pentru fiecare activitate;  2x9 = 18          4x2 = 8
	30. Proiecte pentru mobilități de tip grant	-
	<b>TOTAL</b>	<b>236</b>