

**UNIVERSITATEA POLITEHNICA DIN BUCURESTI**  
**FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR MINIMALE PENTRU POSTUL DE**  
**PROFESOR ÎN ÎNVĂȚĂMÂNTUL SUPERIOR**

**Prof. Dr. Ing. Ruxandra Vidu**

Departamentul de Procesarea Materialelor Metalice și Ecometalurgie, Facultatea de Știința și Ingineria Materialelor

Condiții	Îndeplinire condiții	
<b>A. Doctor</b>	Diploma de <i>Doctor Inginer</i> în domeniul <i>Știința și Ingineria Materialelor</i> Seria M, nr. 15437/24.03.2000, emisă de Osaka University, Japan; atestata de Ministerul Educației Naționale nr. 2694/09.10.2000.	
<b>B. Îndeplinirea standardelor minime naționale conform OMECTS nr. 6129/20.12.2016</b>	Standarde îndeplinite, conform Comisiei CNATDCU nr. 7. INGINERIA MATERIALELOR. Anexată: Fișa de calcul și de susținere a îndeplinirii standardelor minime specifice domeniului, în acord cu realizările menționate:	
<b>Condiții minime [Punctaj]</b>	<b>Minim prevăzut</b>	<b>Realizat</b>
1 – Activitatea Didactica/Profesionala	min.60	343.82
2 – Activitatea de Cercetare	min.320	2386.02
3 – Recunoașt. Impactului Activitatii	min.120	1631.52
<b>TOTAL (A)</b>	<b>min. 500</b>	<b>4361.36</b>
<b>Condiții minime obligatorii pe subcategorii [Număr]</b>	<b>Minim prevăzut</b>	<b>Realizat</b>
<b>1.1. Cărți și capitole în cărți de specialitate [autor, edituri naționale]</b>	2 (1 prim autor)	4 (1 prim autor)
<b>1.2.1. Manuale didactice / Monografii</b>	2 (1 prim autor)	5 (1 prim autor)
<b>1.2.2. Îndrumare de laborator</b>	-	1
<b>2.1. Articole ISI [Reviste + Conferințe], din care:</b>	15	44
- Reviste cotate ISI, din care:	10	44
- Factor impact [FI] de min 1	5	44
- Autor principal [FI min 0, 5]	5	15
<b>2.2. Alte Baze de Date Internaționale (BDI) [Reviste +Conferințe]</b>	-	37
<b>2.3. Brevete de invenție</b>	-	6
<b>2.3.1. Naționale</b>	-	-
<b>2.3.2. Internaționale</b>	-	6
<b>2.4. Granturi/Proiecte câștigate prin competiție, ca Director/Responsabil, din care</b>	2	7
- Director	1	5
<b>3.1. Citari in reviste cotate ISI Thomson Reuters-Web of Science Core Collection si in alte baze internationale</b>	30	1147 cf. Scopus (self citations excluded)}
<b>C. Atestarea studiilor (diplome + Foi Matricole și a altor realizări profesionale)</b>	Diploma de Inginer, in profilul Metalurgie, specializarea Prelucrari metalurgice, nr2648/13.03.1986	

**Ruxandra Vidu Data: 8.3.2020**



In continuare: fișa de calcul și de susținere a îndeplinirii standardelor minime specifice domeniului, în acord cu realizările menționate de profesor în învățământul superior

**Dr. Ing. Ruxandra VIDU**

Fișă de calcul și de susținere a îndeplinirii standardelor minimale specifice domeniului,  
 în acord cu realizările menționate de profesor în învățământul superior  
 Anexa 7 – Comisia Ingineria Materialelor (Ordinul 6129/20.12.2016)

1. Activitatea didactică și profesională (A<sub>1</sub>)

Nr. crt.	Condiția minimală	Cerința	Realizat	Cerința este indeplinită prin urmatoarele
1.1	Cărți și capitole în cărți de specialitate în edituri recunoscute 1.1.1. Cărți/capitole ca autor	1.1.1.1. Internaționale	5	<p><b>Capitole ca autor</b></p> <p>3) <b>R. Vidu</b>, T. Ratto, M. Longo, P. Stroeve, “<i>Domains, cushioning and patterning of bilayers by surface interactions with solid substrates and their sensing properties</i>” in Planar Lipid Bilayers (BLMs) and their Applications, H.T. Tien and A. Ottova-Leitmannova (eds.), 2003, Chapter 32, Elsevier, 1044 pages, ISBN: 9780444509406, 886-915; Kpi= nr.pag/(2 x nr.autori); Kpi =30/(2x3)= 3.75;</p> <p>1) L. Predoana, M. Crisan, M. Gartner, M. Zaharescu, <b>R. Vidu</b>, F.T. Quinlan, C.D. Vidu, P. Stroeve, <i>Lithium Cobalt Oxide (LiCoO<sub>2</sub>) Films Obtained by Different Sol-Gel Methods</i>, Emerging Fields in Sol-Gel Science and Technology, Eds. T.M. Lopez, D. Avnir, M. Aegerter, Kluwer Academic Publishers ISBN 1-4020-7458-1 (2003), p.341-347, Kpi= nr.pag/(2 x nr.autori); Kpi =7/(2x8)= 0.44;</p> <p>1) <b>R. Vidu</b>, N. Hirai, S. Hara, “<i>Surface Nano-alloying</i>” in Encyclopedia of Nanoscience and Nanotechnology edited by H. S. Nalwa, 2004, vol 10, ISBN: 1-58883-001-2, American Scientific Publishers, p.283-301; Kpi = nr.pag/(2 x nr.autori); Kpi =19/(2x3)= 3,17</p> <p>2) <b>R. Vidu</b>, J-R. Ku, P. Stroeve, “<i>Fabrication of Multiscale Nanostructures from Polymeric Membrane Templates</i>” in Polymeric Nanostructures and Their Applications edited by H. S. Nalwa, 2006, Vol. 1: “Polymeric Nanostructures, Chapter 14, ISBN: 1-58883-068-3, 1000 pages, American Scientific Publishers, p.124-149; Kpi= nr.pag/(2 x nr.autori); Kpi =26/(2x3)= 4,33;</p> <p>5) M. Enachescu, <b>R. Vidu</b>, I. Opris, “<i>Uncovering Cortical Modularity by Nanotechnology</i>” Chapter 18 in Recent Advances on the Modular Organization of the Cortex, ISBN: 978-9401798990, Springer 436 pages (2015), 339-366; DOI: 10.1007/978-94-017-9900-3_18, Kpi= nr.pag/(2 x nr.autori); Kpi =28/(2x3)= 4, 67;</p>
		1.1.1.2. Naționale, din care Profesor min. 2, d.c 1 prim autor	4	<p>1) S. Zamfir, <b>R. Vdu</b>, <i>Coroziunea materialelor metalice</i>, Editura UPB, 1992, (261 pagini) Kpi= nr.pag/(5 x nr.autori); Kpi=261/(5x2)= <b>26.1; 130.5 pag/autor;</b></p> <p>2) S. Zamfir, <b>R. Vdu</b>, <i>Coroziunea alamelor</i>, Editura UPB, 1993 (60 pagini), Kpi= nr.pag/(5 x nr.autori); Kpi=60/(5x2)= <b>6; 30 pag/autor;</b></p> <p>3) S. Zamfir, <b>R. Vidu</b>, V. Branzoi, <i>Coroziunea Materialelor Metalice</i>, Editura Didactica si Pedagogica, Bucuresti, Romania, 1994 (ISBN 973-30-2928), (pag. 228); Kpi= nr.pag/(5 x nr.autori); Kpi=228/(5x3)= <b>15.2; 76 pag/autor</b></p> <p>4) <b>R. Vidu</b>, C. Predescu, E. Matei, A.M. Predescu, <i>Nanomateriale pentru epurarea apelor</i>, Editura PRINTECH (cod CNCIS 54), 2020 ISBN 978-606-23-1062-2 (pag. 150); Kpi= nr.pag/(5 x nr.autori); Kpi=150/(5x4) = <b>7.5; 37.5 pag/autor</b></p>
<b>Total A.1.1</b>				<b>71.15</b>
	1.1.2 Cărți / capitole ca editor	1.1.2.1. Internaționale	6	<p>1) <b>R. Vidu, N. Kamoun, (Eds.)</b>, <i>Nanostructured Oxide Thin Films Synthesized by Spray Pyrolysis: Characterizations and Applications</i>, ARA Publisher Academic Press, 2018, ISBN 978-1935924-24-1, 290 pages; Kpi= nr.pag/(3 x nr.editorii); Kpi=290/(3x2)= 48.33</p> <p>2) D. Todoroi (Autor), <b>R. Vidu, I. Onica (Eds.)</b>, <i>Crearea Societatii Conștiinței, Ediția a VI-a: Materialele Teleconferinței internaționale a tinerilor cercetători</i> (2017), ISBN: 978-1935924210, 238 pg; ARA Publisher Academic Press; Kpi= nr.pag/(3 x nr.editorii); Kpi =238/(3x2)= 79.33;</p> <p>3) <b>R. Vidu, A. Mindicanu (Eds.)</b>, <i>The 40<sup>th</sup> ARA Proceedings (2016)</i>, 190 pg, ISBN-13: 978-1935924197; ARA Publisher Academic Press; Kpi= nr.pag/(3 x</p>

				nr.editorii); $K_{pi} = 190/(3 \times 2) = 31.66$ ; <b>4)</b> I.N. Popescu (Autor), <b>R. Vidu (Ed.)</b> , <i>Materiale Compozite. Volumul 1: Obținere, Proprietati si Aplicatii</i> , 126 pg, 2013, ISBN: 978-1936629220; publicata de Reflection Publishing; $K_{pi} = nr.pag/(3 \times nr.editorii)$ ; $K_{pi} = 126/(3 \times 1) = 42$ ; <b>5)</b> I.N. Popescu (Autor), <b>R. Vidu (Ed.)</b> , <i>Materiale Compozite. Volumul 2: Obținerea Prin Metalurgia Pulberilor a Compozitelor Pe Baz de Al</i> , 150 pg (2013), ISBN 978-1-936629-23-7, publicata de Reflection Publishing; $K_{pi} = nr.pag/(3 \times nr.editorii)$ ; $K_{pi} = 150/(3 \times 1) = 50$ ; <b>6)</b> I. Peter (Autor), <b>R. Vidu (Ed.)</b> , <i>Metallic Alloys for Engineered Applications</i> , ARA Publisher Academic Press (2018), 108 pages, ISBN-13: 978-1935924289, $K_{pi} = nr.pag/(3 \times nr.editorii)$ ; $K_{pi} = 108/(3 \times 1) = 36$ ;
	<b>1.2. Suport didactic</b> <b>1.2.1 Manuale didactice, monografii, inclusiv electronice: pentru Profesor min. 2, d.c 1 ca prim autor</b>		<b>3</b>	<b>1)</b> S. Zamfir, A. Dobre, <b>R. Vidu</b> , <i>Coroziunea Materialelor Metalice</i> , Indrumar de laborator pentru uzul studentilor, Editura UPB1992, 60 pagini, $K_{pi} = nr.pag/(10 \times nr.aurorii)$ ; $K_{pi} = 60/(10 \times 3) = 2$ ; 20pg/autor <b>2)</b> <b>R. Vidu</b> , <i>From Nanocable Structures to Nanostructured Arrays and Nanodevices</i> , Reflection Publishing, 2005 (ISBN 978-0-9797618-1-2). 114 pages, $K_{pi} = nr.pag/(10 \times nr.editorii)$ ; $K_{pi} = 114/(10 \times 1) = 11.4$ ; <b>114 pg/autor</b> <b>3)</b> <b>R. Vidu</b> , <i>Surface Alloying in Electrochemistry</i> , ARA Publisher Academic Press (2020), 114 pages, ISBN-13: 978-1935924296, $K_{pi} = nr.pag/(10 \times nr.editorii)$ ; $K_{pi} = 114/(10 \times 1) = 11.4$ ; <b>114 pg/autor</b>
<b>Total 1.2</b>				272.67
<b>Total criteriu A1 = 1.1 + 1.2 =</b>				<b>343.82</b>

## 2. Activitatea de cercetare (A<sub>2</sub>)

<b>2.1</b>	<b>Articole in reviste rotatate ISI Thomson Reuters- Web of Science Core Collection [FI -Factor de Impact] si in volume indexate ISI proceedings - Web of Science.</b>	<b>min.15</b>  <b>min 5 FI&gt;1</b>  <b>min 5 FI&gt;0.5</b>	44 44 44	<b>1)</b> B. Alhalaili, <b>R. Vidu</b> , M.S. Islam, <i>The Growth of Ga<sub>2</sub>O<sub>3</sub> Nanowires on Silicon for Ultraviolet Photodetector</i> , Sensors, 2019, 19, Articol Number: 5301 (12 pagini), DOI: 10.3390/s19235301, WOS:000507606200244, IF: 3.031 (2020), $K_{pi} = (50 \times FI)/nr.aurorii = (50 \times 3.031)/3 = \underline{50.52}$ <b>2)</b> M.N. Ardeleanu, I.N. Popescu, I.N. Udrouiu, E.M. Diaconu, S. Mihai, E. Lungu, B. Alhalaili, <b>R. Vidu</b> , <i>Novel PDMS-Based Sensor System for MPWM Measurements of Picoliter Volumes in Microfluidic Devices</i> , Sensors, 2019, 19, Articol Number: 4886 (21pag), DOI: 10.3390/s19224886, WOS:000503381500065, IF: 3.031 (2020), $K_{pi} = (50 \times FI)/nr.aurorii = (50 \times 3.031)/8 = \underline{18.94}$ <b>3)</b> <b>R. Vidu</b> , A.M. Predescu, E. Matei, A. Berbecaru, C. Pantilimon, C. Dragan and C. Predescu, <i>Template-Assisted Co-Ni Nanowire Arrays</i> , Nanomaterials 9(2019), Articol Number:1446(13pag),DOI:10.3390/nano9101446, WOS:000495666800101, IF: 4.034 (2020), $K_{pi} = (50 \times FI)/nr.aurorii = (50 \times 4.034)/7 = \underline{28.81}$ <b>4)</b> B. Alhalaili, R. Bunk, <b>R. Vidu</b> , M.S. Islam, <i>Dynamics Contributions to the Growth Mechanism of Ga<sub>2</sub>O<sub>3</sub> Thin Film and NWs Enabled by Ag Catalyst</i> , Nanomaterials 9 (2019) 9, Articol Number: 1272 (13 pagini), DOI: 10.3390/nano9091272, WOS: 000489101900089, IF: 4.034 (2020), $K_{pi} = (50 \times FI)/nr.aurorii = (50 \times 4.034)/4 = \underline{50.43}$ <b>5)</b> O. Kamoun, A. Mami, M.A. Amara, <b>R. Vidu</b> , M. Amlouk, <i>Nanostructured Fe, Co-Codoped MoO<sub>3</sub> Thin Films</i> , Micromachines 10 (2019) 2, Articol Number 138 (20 pagini); DOI: 10.3390/mi10020138; WOS: 460798200063, IF: 2.426 (2020), $K_{pi} = (50 \times FI)/nr.aurorii = (50 \times 2.426)/5 = \underline{24.26}$ <b>6)</b> A.M. Predescu, <b>R. Vidu</b> , A. Predescu, E. Matei, C. Predescu, <i>Synthesis and characterization of bimodal structured Cu-Fe<sub>3</sub>O<sub>4</sub> nanocomposites</i> , Powder Technology, 342 (2019) pg.938-953, DOI: 10.1016/j.powtec.2018.10.015, WOS:000454375100093, IF: 3.413 (2020), $K_{pi} = (50 \times FI)/nr.aurorii = (50 \times 3.413)/5 = \underline{34.13}$ <b>7)</b> A. Gassoumi, A. Al-Shahrani, S. Alfaify, H. Algarni, <b>R. Vidu</b> , <i>Modified Becke-Johnson calculations applied to the electronic and optical properties of Mg and Mn doped PbS</i> , Journal of Optoelectronics and Advanced Materials, 20(2018) 9-10, p.453-458, WOS:000452505200001, IF: 0.588 (2018), $K_{pi} = (50 \times FI)/nr.aurorii = (50 \times 0.588)/5 = \underline{5.88}$ <b>8)</b> M. Souli, C. Nefzi, Z. Seboui, A. Mejri, <b>R. Vidu</b> , N. Kamoun-Turki, <i>Improved</i>
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*structural properties, morphological and optical behaviors of sprayed Cu<sub>2</sub>ZnSnS<sub>4</sub> thin films induced by high gamma radiations for solar cells*, Materials Science in Semiconductor Processing, 2018, Vol. 83, p. 50-57, DOI: 10.1016/j.mssp.2018.04.009, WOS: 000433236200008, IF: 2.722 (2018),  $K_{pi} = (50*FI)/nr.autori = (50*2.722)/6 = 22.68$

9) B. Alhalaili, D.M. Dryden, **R. Vidu**, S. Ghandiparsi, H. Cansizoglu, Y. Gao, M.S. Islam, *High-aspect ratio micro-and nanostructures enabled by photo-electrochemical etching for sensing and energy harvesting applications*, Applied Nanoscience (2018), p.1171-1177, DOI: 10.1007/s13204-018-0737-5, WOS:000442669600025, IF: 3.198 (2018),  $K_{pi} = (50*FI)/nr.autori = (50*3.198)/7 = 22.84$

10) A.M. Predescu, E.Matei, A.C.Berbecaru, C.Pantilimon, C.Dragan, **R.Vidu**, C.Predescu, V.Kuncser, *Synthesis and Characterization of Dextran-coated Iron Oxide Nanoparticles*, Royal Society Open Science, 5 (2018) 3, Article Number: 111525 (11 pagini), DOI: 10.1098/rsos.171525, WOS:000428874600022, IF: 2.515 (2018),  $K_{pi} = (50*FI)/nr.autori = (50*2.515)/5 = 15.75$

11) M. Mihai; V. Tanasiev; C. Dinca, A. Badea, **R. Vidu**, *Passive House Analysis in Terms of Energy Performance*, Energy and Buildings, 144 (2017), pages: 74-86, DOI: 10.1016/j.enbuild.2017.03.025, WOS: 000401393000006, IF: 4.495 (2020),  $K_{pi} = (50*FI)/nr.autori = (50*4.495)/5 = 44.95$

12) P. Palade; C. Plapcianu; I. Mercioniu; C. Comanescu; G. Scinteie; A. Leca; **R. Vidu**, *Structural, Magnetic, and Mossbauer Investigation of Ordered Iron Nitride with Martensitic Structure Obtained from Amorphous Hematite Synthesized via the Microwave Route*, Industrial and Engineering Chemical Research, 56 (2017) 11, Pages: 2958-296, DOI: 10.1021/acs.iecr.6b04574, WOS:000397477800010, IF: 3.375 (2020),  $K_{pi} = (50*FI)/nr.autori = (50*3.375)/7 = 24.11$

13) DM. Dryden, T. Sun, R. McCormick, R. Hickey, **R Vidu**, P. Stroeve, *Anomalous Deposition of Co-Ni Alloys in Film and Nanowire Morphologies from Citrate Baths*, Electrochimica Acta 220 (2016), pag. 595-600, DOI: 10.1016/j.electacta.2016.10.073, WOS: 000389090800070, IF: 5.383 (2020),  $K_{pi} = (50*FI)/nr.autori = (50*5.383)/6 = 44.86$

14) DM. Dryden, **R. Vidu**, P. Stroeve, *Nanowire formation is preceded by nanotube growth in templated electrodeposition of cobalt hybrid nanostructures*, Nanotechnology (2016), 27 (44), Article Number: 445302 (9 pagini), DOI: 10.1088/0957-4484/27/44/445302, WOS:000385487800002, IF: 3.399 (2020),  $K_{pi} = (50*FI)/nr.autori = (50*3.399)/3 = 56.65$

15) M Pérez-Page, E Yu, J Li, M Rahman, DM Dryden, **R Vidu**, P Stroeve, *Template-based Syntheses for Shape Controlled Nanostructures*, Advances in Colloid and Interface Science, 234 (2016), pag.51-79, DOI: 10.1016/j.cis.2016.04.001, WOS: 000381325600004, IF: 8.243 (2020),  $K_{pi} = (50*FI)/nr.autori = (50*8.243)/7 = 58.88$

16) **R. Vidu**, M. Perez-Page, D.V. Quach, X. Y. Chen, Pieter Stroeve, *Electrodeposition of Ni and Te-Doped Cobalt Triantimonide in Citrate Solutions*, Electroanalysis 27 (2015) 12, 2845, DOI: 10.1002/elan.201500247, WOS:000368340300020, IF: 2.691 (2020),  $K_{pi} = (50*FI)/nr.autori = (50*2.691)/5 = 26.91$

17) **R. Vidu**, M. Rahman, M. Mahmoudi, M. Enachescu, T.D. Poteca, I. Opris, *Nanostructures: a platform for brain repair and augmentation*, Frontiers in systems neuroscience, 8 (2014) Article 91, DOI: 10.3389/fnsys.2014.00091, WOS:000214852700091, IF: 3.928 (2020),  $K_{pi} = (50*FI)/nr.autori = (50*3.928)/6 = 32.73$

18) **R. Vidu**, C. Plapcianu, C. Bartha, *Multivalence Ce and Sn Oxide Doped Materials with Controlled Porosity for Renewable Energy Applications*, Industrial and Engineering Chemical Research, 53 (2014) 7829-7839, DOI: 10.1021/ie500384t, WOS:000336078500001, IF: 3.375 (2020),  $K_{pi} = (50*FI)/nr.autori = (50*3.375)/3 = 56.25$

19) M.M. Ombaba, **R. Vidu**, L.V. Jayaraman, M. Triplett, J. Hsu, and M. Saif Islam, *Seamless Integration of an Elastomer with Electrode Matrix and its In-Situ Conversion into a Solid-State Electrolyte for Robust Li-Ion Batteries*, Advanced Functional Materials, 23 (2013) 47, p. 5941-5951, DOI: 10.1002/adfm.201301124, WOS: 000328457000016, IF: 15.621 (2020),  $K_{pi} = (50*FI)/nr.autori =$

$(50 \times 15.621) / 6 = \underline{130.18}$

20) C. Plapcianu, A. Agostino, P. Badica, G.V. Aldica, E. Bonometti, G. Ieluzzi, S. Popa, M. Truccato, S. Cagliero, Y. Sakka, O. Vasylykiv, **R. Vidu**, *Synthesis by Microwave Technique of MgB2 Doped with Fullerene*, Industrial and Engineering Chemical Research, 51 (2012) 11005-11010, DOI: 10.1021/ie3005429, WOS: 000308043500002, IF: 3.375 (2020),  $K_{pi} = (50 \times FI) / nr. autori = (50 \times 3.375) / 12 = \underline{14.06}$

21) **R. Vidu**, S.Li, D.V.Quach, P.Stroeve, *Electrochemical Deposition of Co-Sb Thin Films on Nano-structured Gold*, Journal of Applied Electrochemistry, 42 (2012), 333-339, DOI: 10.1007/s10800-012-0401-9, WOS: 000302410900007, IF: 2.366 (2020),  $K_{pi} = (50 \times FI) / nr. autori = (50 \times 2.366) / 4 = \underline{29.58}$

22) A. J. Moule, L. Chang, C. Thambidurai, **R. Vidu**, P. Stroeve, *Hybrid solar cells: basic principles and the role of ligands*, Journal of Materials Chemistry, 22 (2012) 6, 2351-2368, DOI: 10.1039/cljm14829j, WOS:000299178500002, IF: 6.626 (2020),  $K_{pi} = (50 \times FI) / nr. autori = (50 \times 6.626) / 5 = \underline{66.26}$

23) D. Barlev, **R. Vidu**, P. Stroeve, *Review: Innovation in Concentrated Solar Power*, Solar Energy Materials and Solar Cells, 95 (2011) 2703-2725, DOI: 10.1016/j.solmat.2011.05.020, WOS:000293936300001, IF: 6.019 (2020),  $K_{pi} = (50 \times FI) / nr. autori = (50 \times 6.019) / 3 = \underline{100.32}$

24) Y. Hou, **R. Vidu**, P. Stroeve, *Solar Energy Storage Methods*, Industrial & Engineering Chemistry Research, 50 (2011) 15, 8954-8964, DOI: 10.1021/ie2003413, "WOS:000293196700017, IF: 3.375 (2020),  $K_{pi} = (50 \times FI) / nr. autori = (50 \times 3.375) / 3 = \underline{56.25}$

25) D.V. Quach, **R. Vidu**, J.R. Groza, P. Stroeve, *Electrochemical Deposition of Cobalt Antimonide Thin Films and Nanowires*, Industrial and Engineering Chemistry Research, 49 (2010), 11385-11392, DOI: 10.1021/ie101173u, WOS:000283916700032, IF: 3.375 (2020),  $K_{pi} = (50 \times FI) / nr. autori = (50 \times 3.375) / 4 = \underline{42.19}$

26) **R. Vidu**, J-R. Ku, P. Stroeve, *Growth of ultrathin films of cadmium telluride and tellurium as studied by electrochemical atomic force microscopy*, Journal of Colloid and Interface Science, 300 (2006) 1, 404-412. DOI: 10.1016/j.jcis.2006.03.078, WOS:000238877700054, IF: 6.361 (2020),  $K_{pi} = (50 \times FI) / nr. autori = (50 \times 6.361) / 3 = \underline{106.02}$

27) J.-R. Ku, **R. Vidu**, P. Stroeve, *Mechanism of Film Growth of Tellurium by Electrochemical Deposition in the Presence and Absence of Cadmium Ions*, Journal of Physical Chemistry B, 2005, 109, 21779-21787. DOI: 10.1021/jp053833q, WOS:000233437100046, IF: 2.923 (2020),  $K_{pi} = (50 \times FI) / nr. autori = (50 \times 2.923) / 3 = \underline{48.72}$

28) M. Carmichael, **R. Vidu**, A. Maksumov, A. Palazoglu, P. Stroeve, *Using Wavelets to Analyze AFM Images of Thin Films*, Langmuir, 20 (2004) 26, 11557-11568, DOI: 10.1021/la048753c, WOS:000225816800041, IF: 3.683 (2020),  $K_{pi} = (50 \times FI) / nr. autori = (50 \times 3.683) / 5 = \underline{36.83}$

29) J.-R. Ku, **R. Vidu**, R. Talroze, P. Stroeve, *Fabrication of Nanocables by Electrochemical Deposition inside Metal Nanotubes*, Journal of the American Chemical Society, 2004, 126 (46), 15022-15023, DOI: 10.1021/ja0450657, WOS:000225233600012, IF: 14.695 (2020),  $K_{pi} = (50 \times FI) / nr. autori = (50 \times 14.695) / 4 = \underline{183.69}$

30) **R. Vidu**, Stroeve, P.; *Improvement of the Thermal Stability of Li-Ion Batteries by Polymer Coating of LiMn2O4* Industrial and Engineering Chemical Research; 2004; 43(13); 3314-3324, DOI: 10.1021/ie034085z, WOS:000222142000013, IF: 3.375 (2020),  $K_{pi} = (50 \times FI) / nr. autori = (50 \times 3.375) / 2 = \underline{84.38}$

31) Maksumov, **R. Vidu**, P. Stroeve, and A. Palazoglu, *Enhanced Feature Analysis Using Wavelets for Scanning Microscopy Images of surfaces*, Journal of Colloid and Interface Science, 2004, 272 (2), 365-377, DOI: 10.1016/j.jcis.2003.09.047, WOS:000220512900017, IF: 6.361 (2020),  $K_{pi} = (50 \times FI) / nr. autori = (50 \times 6.361) / 4 = \underline{79.51}$

32) Quinlan, F. T., **R. Vidu**., Predoana, L., Zaharescu, M., Gartner, M., Groza, J., Stroeve, P., *Lithium Cobalt Oxide (LiCoO2) Nanocoatings by Sol-Gel Methods*, Industrial and Engineering Chemical Research; 2004; 43(10); 2468-2477, DOI: 10.1021/ie034086r, WOS:000221287900023, IF: 3.375 (2020),  $K_{pi} = (50 \times FI) / nr. autori = (50 \times 3.375) / 7 = \underline{24.11}$

			<p><b>33) R. Vidu, F. T. Quinlan, P. Stroeve, Use of in situ Electrochemical Atomic Force Microscopy (EC-AFM) to Monitor Cathode Surface Reaction in Organic Electrolyte, Industrial and Engineering Chemical Research, 41 (2002) 25, 6546-6554, DOI: 10.1021/ie020519z, WOS:000179715300037, IF: 3.375 (2020), <math>K_{pi} = (50*FI)/nr.autori = (50*3.375)/3 = 56.25</math></b></p> <p><b>34) R. Vidu; Zhang, LQ; Waring, AJ; Lehrer, RI; Longo, ML; Stroeve, P.; Phospholipid bilayers on a polyion-alkylthiol layer pair: microprobe imaging, electrochemical properties and peptide association, Materials Science &amp; Engineering B: Solid State Materials for Advanced Technology, 96 (2002) 2, Pages: 199-208, Article Number: PII S0921-5107(02)00318-5, DOI: 10.1016/S0921-5107(02)00318-5, WOS:000178888600024, IF: 1.756 (2020), <math>K_{pi} = (50*FI)/nr.autori = (50*1.756)/6 = 14.63</math></b></p> <p><b>35) A. A. Levchenko, B. P. Argo, R. Vidu, R.V. Talroze and P. Stroeve, Kinetics of Sodium Dodecyl Sulfate Adsorption on and Desorption from Self-Assembled Monolayers Measured by Surface Plasmon Resonance, Langmuir, 18 (2002) 22, 8464-8471, DOI: 10.1021/la0202576, WOS:000178839300029, IF: 3.683 (2020), <math>K_{pi} = (50*FI)/nr.autori = (50*3.683)/5 = 36.83</math></b></p> <p><b>36) L. Zhang, R. Vidu, AJ. Waring, RI LehrerML. Longo, P. Stroeve, Electrochemical and Surface Properties of Solid-Supported, Mobile Phospholipid Bilayers on a Polyion/Alkylthiol Layer Pair used for Detection of Antimicrobial Peptide Insertion, Langmuir, 18 (2018/2019) 4, 1318-1331, DOI: 10.1021/la010501d, WOS:000174009300056, IF: 3.683 (2020), <math>K_{pi} = (50*FI)/nr.autori = (50*3.683)/6 = 30.69</math></b></p> <p><b>37) F. T. Quinlan, K. Sano, T. Willey, R. Vidu, K. Tasaki, P. Stroeve, Surface Characterization of the Spinel LiMn2O4 Cathode before and After Storage at Elevated Temperatures, Chemistry of Materials 13 (2001) 4207-4212, DOI: 10.1021/cm010335v, WOS:000172323700063, IF: 10.159 (2020), <math>K_{pi} = (50*FI)/nr.autori = (50*10.159)/6 = 84.66</math></b></p> <p><b>38) R. Vidu, N. Hirai, S. Hara, Comparative Kinetic Study of Cd Diffusion into Au(100) and Ag(100) during Electrodeposition, Physical Chemistry Chemical Physics, 3 (2001) 3320-3324, DOI: 10.1039/b010250o, WOS:000170703000012, IF: 3.567 (2020), <math>K_{pi} = (50*FI)/nr.autori = (50*3.567)/3 = 59.45</math></b></p> <p><b>39) R. Vidu, S. Hara, Diffusion at Au(100)/Cd<sup>2+</sup> Interface during Electrodeposition, Surface Science, 452 (2000) 229-238, DOI: 10.1016/S0039-6028(00)00327-7, WOS:000086822100026, IF: 1.849 (2020), <math>K_{pi} = (50*FI)/nr.autori = (50*1.849)/2 = 46.23</math></b></p> <p><b>40) R. Vidu, S. Hara, In situ Electrochemical Atomic Force Microscopy Study on Au(100)/Cd Interface in Sulphuric Acid Solution, Journal Of Vacuum Science And Technology B: Nanotechnology And Microelectronics, 17 (1999) 6, 2423-2430, DOI: 10.1116/1.591105, WOS:000084282800004, IF: 1.351 (2020), <math>K_{pi} = (50*FI)/nr.autori = (50*1.351)/2 = 33.78</math></b></p> <p><b>41) R. Vidu, S. Hara, Surface Alloying at the Cd Au(100) Interface in the UPD Region. Electrochemical Studies and in situ EC-AFM Observation, Journal of Electroanalytical Chemistry, 475 (1999) 2, 171-180, DOI: 10.1016/S0022-0728(99)00354-X, WOS:000087881000008, IF: 3.188 (2020), <math>K_{pi} = (50*FI)/nr.autori = (50*3.218)/3 = 53.13</math></b></p> <p><b>42) R. Vidu, S. Hara, Surface Alloyed Phase Formation at Au(100)/Cd<sup>2+</sup> Interface During Electrodeposition, Electrochemistry, 67 (1999) 12, 1240-1242, DOI: 10.5796/electrochemistry.67.1240, WOS: 000084294500046, IF: 1.293 (2020), <math>K_{pi} = (50*FI)/nr.autori = (50*1.293)/3 = 21.55</math></b></p> <p><b>43) R. Vidu, S. Hara, In situ EC-AFM Observation of Cd Electrodeposition on Au(100), Scripta Materialia, 41 (1999) 6, 617-624, DOI: 10.1016/S1359-6462(99)00091-3, WOS: 000082265800008, IF: 4.539 (2020), <math>K_{pi} = (50*FI)/nr.autori = (50*4.539)/3 = 75.65</math></b></p> <p><b>44) N. Ikemiya, D. Iwai, K. Yamada, R. Vidu, S. Hara, Atomic Structures and Growth Morphologies of Electrodeposited Te film on Au(100) and Au(111) Observed by in situ Atomic Force Microscopy, Surface Science, 369 (1996), 199-208, DOI: 10.1016/S0039-6028(96)00881-3, WOS:A1996WD21600025, IF: 1.849 (2020), <math>K_{pi} = (50*FI)/nr.autori = (50*1.849)/6 = 23.11</math></b></p>
<b>Total 2.1</b>	<b>2157.58</b>		

2.2	Articole în reviste si volumele unor manifestări științifice indexate în alte Baze de Date Internaționale (BDI)		17	<p>1) M.N. Ardeleanu, S. Mihai, <b>R. Vidu</b>, E.M. Diaconu, I.N. Popescu, <i>Design of Microfluidic Device and Measurements of MPWM for Single Cell/Particle Manipulation</i>, Scientific Bulletin of Valahia University-Materials and Mechanics (De Gruyter), 2019, 17 (16), 39-43, DOI: 10.2478/bsmm-2019-0006, ISSN 1844-1076, Document Type: Article, Recenzii/Indexari: INSPEC, EBSCO and Chemical Abstracts, <math>K_{pi} = (50 \cdot 0,08) / nr. autori</math>; <math>K_1 = (50 \cdot 0,08) / 5 = 0,8</math></p> <p>2) I.N. Popescu, <b>R Vidu</b>, <i>Densification Mechanism, Elastic-Plastic Deformations and Stress-Strain Relations of Compacted Metal-Ceramic Powder Mixtures</i>, Scientific Bulletin of Valahia University-Materials and Mechanics (De Gruyter) 16 (2018) 14, p.7-12, DOI: 10.1515/bsmm-2018-0001, ISSN 1844-1076, Document Type: Article, Recenzii/Indexari: INSPEC, EBSCO, si Chemical Abstracts, <math>K_{pi} = (50 \cdot 0,08) / nr. autori</math>; <math>K_1 = (50 \cdot 0,08) / 2 = 2,00</math></p> <p>3) I.N. Popescu, <b>R Vidu</b>, <i>Compaction Behavior Modelling of Metal-Ceramic Powder Mixtures. A Review</i>, Scientific Bulletin of Valahia University-Materials and Mechanics (De Gruyter) 16 (2018) 14, 28-37, DOI: 10.1515/bsmm-2018-0006, ISSN 1844-1076, Document Type: Article, Recenzii/Indexari: INSPEC, EBSCO, si Chemical Abstracts, <math>K_{pi} = (50 \cdot 0,08) / nr. autori</math>; <math>K_1 = (50 \cdot 0,08) / 2 = 2,00</math></p> <p>4) I.N. Popescu, <b>R Vidu</b>, V Bratu, <i>Porous Metallic Biomaterials Processing (Review) Part 1: Compaction, Sintering Behavior, Properties and Medical Applications</i>, Scientific Bulletin of Valahia University-Materials and Mechanics (De Gruyter) 15 (2017) 13, 28-40, DOI: 10.1515/bsmm-2017-0015, Document Type: Article, Recenzii/Indexari: INSPEC, EBSCO, si Chemical Abstracts, <math>K_{pi} = (50 \cdot 0,08) / nr. autori</math>; <math>K_1 = (50 \cdot 0,08) / 3 = 1,33</math></p> <p>5) M. Mihai, A. Badea, <b>R. Vidu</b>, <i>Analysis of The PV System Performance Through Simulation: A Case Study</i>, University Politehnica of Bucharest Scientific Bulletin Series C-Electrical Engineering and Computer Science (ISSN 2286-3540), 78 (2016) 4, p. 183-194, WOS:000393328400015, Document Type: Article, Recenzii/Indexari: Scopus, <math>K_{pi} = (50 \cdot 0,08) / nr. autori</math>; <math>K_1 = (50 \cdot 0,08) / 3 = 1,33</math></p> <p>6) G. Tepes, <b>R. Vidu</b>, D. Bojin, <i>Template Based Synthesis of Ni Nanowires by Electrochemical Deposition</i>, Advanced Materials Research, 1114 (2014) p.121. DOI: 10.4028/www.scientific.net/AMR.1114.121, ISSN: 1662-8985, Document Type: Article, Recenzii/Indexari: INSPEC, EBSCO, <math>K_{pi} = (50 \cdot 0,08) / nr. autori</math>; <math>K_1 = (50 \cdot 0,08) / 3 = 1,33</math></p> <p>7) 1) C. Predescu, C. Matei, A. Predescu, A. Berbecaru, <b>R. Vidu</b>, D. Ficai, L. Favier, <i>Application of Iron Oxide Nanoparticles as Adsorbent for Pb and Zn Removal from Industrial Wastewaters</i>, International Conference on Material Science and Material Engineering (MSME) 2014, p. 384-392, Document Type: Proceedings Paper, Volum indexat ISI proceedings - Web of Science, Accession Number: WOS:000351041400059, ISBN:978-1-60595-171-3, <math>K_{pi} = (50 \cdot 0,1) / nr. autori</math>; <math>K_1 = (50 \cdot 0,08) / 7 autori = 0,57</math></p> <p>8) Ku, J-R; <b>R. Vidu</b>; Talroze, R; Stroeve P., <i>Ion-mediated, Smooth Electrochemical Deposition of Nano Thick Tellurium and Cadmium Telluride Films</i>, Conference: 230th National Meeting of the American-Chemical-Society Location: Washington, DC (2005), Abstracts of Papers of The American Chemical Society, Volume: 230, Pages: U2255-U2255, 524-INOR, WOS:000236797304515, Document Type: Meeting Abstract Article, <math>K_{pi} = (50 \cdot 0,08) / nr. autori</math>; <math>K_1 = (50 \cdot 0,08) / 4 = 1,00</math></p> <p>9) 1) I. N. Popescu, <b>R.Vidu</b>, V.Bratu, A. B. Olei, D. N. Ungureanu, F.V.Anghelina, <i>Effects of Silicon Carbide Proportion and Artificial Aging Parameters on Microstructure and Hardness of Al-Cu/SiCp Composites</i>, Trans Tech Publications, Advanced Materials And Structures V, Solid State Phenomena, Doi : 10.4028/www.scientific.net/SSP.216.122, 216 (2014) 122-127, Document Type: Proceedings Paper, Volum indexat ISI proceedings - Web of Science, Accession Number: WOS:00034792410002, si SCOPUS; <math>K_{pi} = (50 \cdot 0,1) / nr. autori</math>; <math>K_1 = (50 \cdot 0,08) / 6 autori = 0,067</math></p> <p>10) <b>R. Vidu</b>, R; Hirai, N; Hara, S, <i>In situ electrochemical atomic force microscopy of surface alloying at the Au(100)/Cd<sup>2+</sup> interface</i>, Magnetic Materials, Processes, and Devices VII and Electrodeposition of Alloys, Proceedings, Book Series: ELECTROCHEMICAL SOCIETY SERIES, Volume: 2002, Issue: 27, (2003), p: 628-636, Document Type: Proceedings Paper, Volum indexat ISI proceedings - Web of Science, Accession Number: WOS:000186183100053, ISBN:1-56677-394-6, <math>K_{pi} = (50 \cdot 0,1) / nr. autori</math>; <math>K_1 = 50 \cdot 0,08 / 3 autori = 1,33</math></p>
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				<p>11) N. Hirai, <b>R. Vidu</b>, T. Tagawa, and S. Hara, <i>Electrodeposition of CdTe Thin Films on Au(111)/Polyethylene</i>, Journal of the Surface Science Society of Japan, 20 (1999) 4, 228-234, Document Type: Article, Recenzii/Indexari: Scopus, <math>K_{pi} = (50 \cdot 0, 08)/nr. \text{ autori}</math>; <math>K_1 = (50 \cdot 0, 08)/4 = 1.00</math></p> <p>12) <b>R. Vidu</b>, S. Zamfir, <i>Cemented Carbide Selection in Terms of Corrosion Resistance</i>, Metalurgia (English Ed.), II (1997) 3, 19-25, Document Type: Article, Recenzii/Indexari: Scopus, <math>K_{pi} = (50 \cdot 0, 08)/nr. \text{ autori}</math>; <math>K_1 = (50 \cdot 0, 08)/3 = 1.33</math></p> <p>13) .M. L. Angelescu, <b>R. Vidu</b>, <i>Determination of Cold Working Effects on the Corrosion Behaviour of an 18-8 Austenitic Stainless Steel</i>, Metalurgia (English Ed.), 1 (1996) 4, 41-43 Document Type: Article, Recenzii/Indexari: Scopus, <math>K_{pi} = (50 \cdot 0, 08)/nr. \text{ autori}</math>; <math>K_1 = (50 \cdot 0, 08)/2 = 2.00</math></p> <p>14) <b>R. Vidu</b>, L. Cazacu, M. Vancea, <i>Laser Chromium Alloying of Steel Parts</i>, Metalurgia (English Ed.), 1 (1996) 4, 38-40, Document Type: Article, Recenzii/Indexari: Scopus, <math>K_{pi} = (50 \cdot 0, 08)/nr. \text{ autori}</math>; <math>K_1 = (50 \cdot 0, 08)/3 = 1.33</math></p> <p>15) S. Zamfir, <b>R. Vidu</b>, <i>Improvement in Corrosion Resistance of Austenitic Stainless Steel by Laser Irradiation</i>, University Politehnica of Bucharest Scientific Bulletin Series B: Chemistry and Materials Science, 54 (1992) 1-2, 133-138. Document Type: Article, Recenzii/Indexari: INSPEC, EBSCO, Elsevier si Chemical Abstracts, <math>K_{pi} = (50 \cdot 0, 08)/nr. \text{ autori}</math>; <math>K_1 = (50 \cdot 0, 08)/2 = 2.00</math></p> <p>16) S. Zamfir, <b>R. Vidu</b>, <i>The Effect of Heat Treatments on Corrosion Resistance Behavior of Al-Cu Alloys</i>, University Politehnica of Bucharest Scientific Bulletin Series B: Chemistry and Materials Science, 53 (1991) 3-4, 159-164. Document Type: Article, Recenzii/Indexari: INSPEC, EBSCO, Elsevier si Chemical Abstracts, <math>K_{pi} = (50 \cdot 0, 08)/nr. \text{ autori}</math>; <math>K_1 = (50 \cdot 0, 08)/2 = 2.00</math></p> <p>17) S. Zamfir, <b>R. Vidu</b>, <i>The Effect of Alloying on Corrosion Behaviour of Stainless Steel in Molten Salts</i>, University Politehnica of Bucharest Scientific Bulletin Series B: Chemistry and Materials Science, 53 (1991) 1-2, 153-155. Document Type: Article, Recenzii/Indexari: INSPEC, EBSCO, Elsevier si Chemical Abstracts, <math>K_{pi} = (50 \cdot 0, 08)/nr. \text{ autori}</math>; <math>K_1 = (50 \cdot 0, 08)/2 = 2.00</math></p>
<b>Total 2.2</b>			<b>24.02</b>	
<b>2.3</b>	<b>Brevete de invenție</b>		<b>6</b>	<p>1) C. Predescu, E. Matei, A.M. Predescu, A.C. Berbecaru, <b>R. Vidu</b>, "Magnetic Nanostructures and Device Implementing Same". Patent No. US 9, 469, 555 B2 (Oct.18, 2016), <math>K_{pi} = 50/nr. \text{ autori}</math>; <math>K_2 = 50/5 = 10</math></p> <p>2) <b>R. Vidu</b>, B. Argo, J. Argo, P. Stroeve, S. Islam, J.-R. Ku, M. Chen, "Methods for forming nanostructures and photovoltaic cells implementing same". Patent No. US 8, 906, 733 (Dec. 9, 2014), <math>K_{pi} = 50/nr. \text{ autori}</math>; <math>K_2 = 50/7 = 7.14</math></p> <p>3) B. Argo, <b>R. Vidu</b>, J. Argo, P. Stroeve, S. Islam, J.-R. Ku, M. Chen. "Methods for forming nanostructures and photovoltaic cells implementing same". Patent No. US 8, 895, 350 (Nov. 25, 2014), <math>K_{pi} = 50/nr. \text{ autori}</math>; <math>K_2 = 50/7 = 7.14</math></p> <p>4) <b>R. Vidu</b>, B. Argo, J. Argo, P. Stroeve, J.-R. Ku, "Nanostructure and Photovoltaic Cell Implementing Same". Patent No. US 8, 877, 541 (Nov. 4, 2014), <math>K_{pi} = 50/nr. \text{ autori}</math>; <math>K_2 = 50/5 = 10</math></p> <p>5) <b>R. Vidu</b>, B.Argo, J.Argo, P.Stroeve, J.-R. Ku, "Nanostructure and Photovoltaic Cell Implementing Same", Patent No. US 8, 344, 241 (Jan. 1, 2013), <math>K_{pi} = 50/nr. \text{ autori}</math>; <math>K_2 = 50/5 = 10</math></p> <p>6) <b>R. Vidu</b>, B.Argo, P.Stroeve, J.Argo, S.Islam, J.-R. Ku, M.Chen, (see Certificate of Correction), "Nanostructure and Photovoltaic Cell Implementing Same". Patent No. US 7, 847, 180 (Dec. 7, 2010) <math>K_{pi} = 50/nr. \text{ autori}</math>; <math>K_2 = 50/7 = 7.14</math></p>
<b>Total 2.3</b>			<b>51.42</b>	
<b>2.4</b>	<b>2.4.1.1. Granturi/Proiecte câștigate prin competiție, Internaționale</b>		<b>6</b>	<p>1) "Eco-Nano-Tehnologii pentru dezvoltarea unui modul cu dublă funcționalitate pe bază de nanofire - EcoNanoWires", Director Proiect: <b>Ruxandra Vidu</b>, Nr. contract de finanțare: 49/05.09.2016; ID: P_37_649; MySMIS: 104141, Axa prioritară 1, Cercetare, dezvoltare tehnologica si inovare (CDI) in sprijinul competitivitatii economice si dezvoltarii afacerilor, Acțiunea: 1.1.4 Atragerea de personal cu competente avansate din strainatate pentru consolidarea capacitatii de CD, <math>K_{pi} = 20 * nr. \text{ ani desfășurare}</math>; <math>K_1 = 20 * 4 = 80</math></p> <p>2) SBIR Phase I: "Surface Engineering Processes of Au Nanostructures Array", Award Number:0741095; Principal Investigator: <b>Ruxandra Vidu</b>; Date: 01.01.2008-30.06.2008; <math>K_{pi} = 20 * nr. \text{ ani desfășurare}</math>; <math>K_1 = 20 * 0.5 = 10</math>  <a href="https://nsf.gov/awardsearch/showAward?AWD_ID=0741095&amp;HistoricalAwards=false">https://nsf.gov/awardsearch/showAward?AWD_ID=0741095&amp;HistoricalAwards=false</a></p>



				<p>3) SBIR Phase I: “CVD Growth of Silicon Nanocables Using Patterned Silicon Dioxide Mask”, Award Number:0712688; Principal Investigator: <b>Ruxandra Vidu</b>; Date: 01.07.2007-31.12.2007; <math>K_{pi} = 20 * \text{nr.ani desfășurare}</math>; <math>K_1 = 20 * 0.5 = 10</math>  <a href="https://nsf.gov/awardsearch/showAward?AWD_ID=0712688&amp;HistoricalAwards=false">https://nsf.gov/awardsearch/showAward?AWD_ID=0712688&amp;HistoricalAwards=false</a></p> <p>4) SBIR Phase I: “Nanocable Structures - Material Growth and Characterization”, Award Number:0539336; Principal Investigator: <b>Ruxandra Vidu</b>; Date: 01.01.2006-30.06.2006, <math>K_{pi} = 20 * \text{nr.ani desfășurare}</math>; <math>K_1 = 20 * 0.5 = 10</math>  <a href="https://nsf.gov/awardsearch/showAward?AWD_ID=0539336&amp;HistoricalAwards=false">https://nsf.gov/awardsearch/showAward?AWD_ID=0539336&amp;HistoricalAwards=false</a></p> <p>5) STTR Phase I: “Fabrication of Low-Cost and High-Efficiency Thermoelectric Materials”, Award Number:0930554; Principal Investigator: <b>Ruxandra Vidu</b>; Date:01.07.2009-30.06.2010; <math>K_{pi} = 20 * \text{nr.ani desfășurare}</math>; <math>K_1 = 20 * 1 = 20</math>  <a href="https://nsf.gov/awardsearch/showAward?AWD_ID=0930554&amp;HistoricalAwards=false">https://nsf.gov/awardsearch/showAward?AWD_ID=0930554&amp;HistoricalAwards=false</a></p> <p>6) Fulbrigh Grant Award: “Mutual Education and Cultural Exchange Act, Oct.2012-June 2013, <math>K_{pi} = 20 * \text{nr.ani desfășurare}</math>; <math>K_1 = 20 * 0.75 = 15</math></p> <p style="text-align: center;"><b>TOTAL ..... 145</b></p>
	<b>2.4.2.1 Membru în echipă - internaționale</b>		2	<p>1) <i>Solar Energy in California’s Future: Barriers, Opportunities and Research Need</i>, (2013), P. Stroeve, R. Vidu, A. Moule, M. Rahman  <b>Public Interest Energy Research (PIER) Program</b>  Contract Number: 500-11-020  <math>K_{pi} = 4 * \text{nr.ani desfășurare}</math>; <math>K_1 = 4 * 1 = 4</math></p> <p>2) <b>Romanian-American Foundation (RAF)</b>, Number: 48 - 2013  MAGNTREAT team: E. Matei, R. Vidu, A. Predescu, A. Berbecaru  <math>K_{pi} = 4 * \text{nr.ani desfășurare}</math>; <math>K_1 = 4 * 1 = 4</math></p> <p style="text-align: center;"><b>TOTAL .... 8</b></p>
<b>Total 2.4</b>				<b>153</b>
<b>Total criteriu A2 = 2.1 + 2.2 + 2.3 + 2.4 =</b>				<b>2386.02</b>

### 3. Recunoașterea și impactul activității (A<sub>3</sub>)

<b>3.1</b>	<b>Citari in reviste ISI si BDI</b>	<b>ISI FI&gt;2</b>	<b>20/nr.autori i FI&gt;2</b>	<p>1. <b>D. Barlev, R. Vidu, P. Stroeve, Review: Innovation in Concentrated Solar Power, Solar Energy Materials and Solar Cells 95 (2011) 2703-2725, DOI: 10.1016/j.solmat.2011.05.020, WOS:000293936300001, IF: 6.019 (2018)</b></p> <p>1. Weinstein, LA; Loomis, J; Bhatia, B; Bierman, DM; Wang, EN; Chen, G, <i>Concentrating Solar Power</i>, CHEMICAL REVIEWS, 2015, 115, 23, Review, DOI: 10.1021/acs.chemrev.5b00397, WOS: 000366339200006, FI: 56.124, <math>K_{pi} = 20/\text{nr.autori} = 20/6 = 3.33</math></p> <p>2. Herron, JA; Kim, J; Upadhye, AA; Huber, GW; Maravelias, CT, <i>A general framework for the assessment of solar fuel technologies</i>, ENERGY &amp; ENVIRONMENTAL SCIENCE, 2015, 8, 1, Article, DOI: 10.1039/c4ee01958j, WOS:000346563600008, FI: 33.250, <math>K_{pi} = 20/\text{nr.autori} = 20/5 = 4</math></p> <p>3. Islam, MT; Huda, N; Abdullah, AB; Saidur, R, <i>A comprehensive review of state-of-the-art concentrating solar power (CSP) technologies: Current status and research trends</i>, RENEWABLE &amp; SUSTAINABLE ENERGY REVIEWS, 2018, 91, Review, DOI: 10.1016/j.rser.2018.04.097, WOS: 000434919600068, FI: 11.239 <math>K_{pi} = 20/\text{nr.autori} = 20/4 = 5</math></p> <p>4. de Sa, AB; Pigozzo, VC; Tadriss, L; Passos, JC, <i>Direct steam generation in linear solar concentration: Experimental and modeling investigation - A review</i>, RENEWABLE &amp; SUSTAINABLE ENERGY REVIEWS, 2018, 90, Review, DOI: 10.1016/j.rser.2018.03.075, WOS: 000434917700061, FI: 11.239, <math>K_{pi} = 20/\text{nr.autori} = 20/4 = 5</math></p> <p>5. Ogunmodimu, O; Okoroigwe, EC, <i>Concentrating solar power technologies for solar thermal grid electricity in Nigeria: A review</i>, RENEWABLE &amp; SUSTAINABLE ENERGY REVIEWS, 2018, 90, Review, DOI: 10.1016/j.rser.2018.03.029, WOS: 000434917700009, FI: 11.239, <math>K_{pi} = 20/\text{nr.autori} = 20/2 = 10</math></p> <p>6. Jia, T; Dai, YJ; Wang, RZ, <i>Refining energy sources in winemaking industry by using solar energy as alternatives for fossil fuels: A review and perspective</i>,</p>
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<p><b>Total 3.1 Citări in reviste ISI si BDI</b></p>	<p><b><u>992.52</u></b></p>		

3.2	Prezentari invitate in plenul tutor manifestari stiintifice nationale si internationale si Profesor invitat (exclusiv ERASMUS)	3.2.1 Internati onale	6	<p>1) <b>R. Vidu</b>, (invited speaker) <i>Advances in Electrochemical Template Synthesis of Nanowire Arrays</i>, Universal Academic Cluster International Autumn Conference in Kansai and Tokyo, Japan on 10-18 October 2019</p> <p>2) <b>R. Vidu</b>, (invited speaker) ‘Co-Ni Nanowires Arrays with Tunable Properties Obtained by Template Synthesis’, The European Advanced Materials Congress - 2018 (EAMC - 2018, 20 - 23 August 2018.</p> <p>3) <b>R. Vidu</b>, (invited speaker) A. Predescu, E. Matei, C. Pantilimon, A. Berbecaru, C. Predescu, “Template Assisted Ni-Co Nanowires by Electrochemical Deposition”, <b>The International Conference on Functional Materials (ICFM 2019), Yasmine Hammamet, Tunisia, March 24-28, 2019.</b></p> <p>4) <b>R. Vidu</b>, (invited speaker) A. Predescu, E. Matei, C. Pantilimon, A. Berbecaru, C. Predescu, “Electrochemical Template Synthesis of Ni-Co Nanowires with Tunable Properties”, <b>the 6<sup>th</sup> Congress on Nanotechnology and Materials Science, Valencia, Spain, April 16-18, 2018.</b></p> <p>5) <b>R. Vidu</b>, (invited speaker) <i>Nanostructured Solar Cells: Recent Advances and Future Perspectives, ANSOLE Days, May 2017, Hammamet, Tunisia</i></p> <p>6) <b>R. Vidu</b>, (invited speaker) «Nanotechnology: a Platform for High-Efficiency Energy Materials», <b>MATERIAUX 2015, Mahdia (Tunisie), 22-26 March 2015.</b></p> <p style="text-align: center;"><b>Total A.3.2.1 = 6*8 = 54</b></p>
		3.2.2 Nationale	20	<p>1) M. Branzei, I. Pencea, <b>R. Vidu</b>, C.E. Sfat, R.N. Turcu, “A New Approach for Measurement Uncertainty Estimation in Material Testing”, (Keynote Speaker) <b>the 41st Congress of the American Romanian Academy of Arts and Sciences, University of Craiova, Romania, July 19-22, 2017.</b></p> <p>2) <b>R. Vidu</b>, Template Synthesis of Multifunctional nanostructures, <b>the 8th International Conference on Materials Science and Technologies, RoMat 2016 Bucharest, Romania, November 9-12, 2016.</b></p> <p>3) <b>R. Vidu</b>, “Nanotechnology: a Platform for High-Efficiency Energy Materials”, <b>Romanian Academy, Institute of Macromolecular Iasi (Romania), April 24, 2016</b></p> <p>4) <b>R. Vidu</b>, “Nanotechnology: a Platform for High-Efficiency Energy Materials”, <b>Romanian Academy, Institute of Macromolecular Iasi (Romania), April 24, 2016</b></p> <p>5) R. Vidu, «Nanomaterials for Solar Energy”, <b>SISOM 2016 and Session of the Commission on Acoustics, Romanian Academy, Institute of Solid Mechanics, May 12-13, 2016.</b></p> <p>6) R. Vidu, «Nanotechnology: a Platform for High-Efficiency Energy Materials”, <b>Baia Mare. May 16, 2016</b></p> <p>7) R. Vidu, (invited) “Nanostructures: synthesis and energetic applications”, <b>the 16th Edition of the International Conference of Nonconventional Technologies, Sibiu, Romania, June 12-15, 2013</b></p> <p>8) J.R.Groza, R.Vidu et al (Key Note Speaker) Field Assisted Sintering Technique Fundamental and Scale-up Studies, <b>International Conference of Physical Chemistry - RomPhysChem 15th Edition, Romanian Academy, Bucharest, Romania, September 11-13, 2013</b></p> <p>Seminarii</p> <p>9) <b>R. Vidu</b>, (invited speaker) “<i>Materiale in conditii extreme – procesare, proprietati si aplicatii</i>”, <b>Diaspora and the Romanian Scientific Research and University Education - Seeds for the Future, Exploratory Workshop WE 16, Bucuresti, Romania, 26-28 September 2012.</b></p> <p>10) <b>R. Vidu</b>, (invited speaker) “<i>Stadiul actual al cercetarii in domeniul nanomaterialelor pentru energia solara</i>” <b>Diaspora and the Romanian Scientific Research and University Education - Seeds for the Future, Exploratory Workshop WE 28, Bucuresti, Romania, 26-28 September 2012</b></p> <p>11) <b>R. Vidu</b>, <i>2012-13 Fulbright Nanostructures and Nanotechnology Seminar</i>, (10 seminars), <b>University “POLITEHNICA” of Bucharest, Faculty of Materials Science and Engineering, and the Center of Surface Science and Nanotechnology (CSSNT), Bucharest, Romania, Oct. 2012-June. 2013.</b></p> <p>12) <b>R. Vidu</b>, (invited) “<i>Nanostructures: synthesis and energetic applications</i>”, <b>University “POLITEHNICA” of Timisoara, Scientific Seminar organized by the Institute of Renewable Energies (ICER) Timisoara, Romania, June 12, 2013</b></p>

			<p>13) <b>R. Vidu</b>, (invited) “<i>Nanostructures: synthesis and energetic applications</i>”, <b>Renewable Energy seminar, University “Eftimie Murgu” Resita, Romania, June 10, 2013</b></p> <p>14) <b>R. Vidu</b>, (invited) “<i>Nanostructures: Synthesis and Energy Application</i>”, <b>Scientific Seminar on "Advanced Solar Cells and Energy Applications" organized by the Renewable Energy Commission of the Romanian Academy, April 19, 2013</b></p> <p>15) <b>R. Vidu</b>, F. Golgovici, M. Prodana, D. Bojin and M. Enachescu, “<i>CoSb<sub>3</sub> Nanowires Doped with Iron Obtained by Electrochemical Deposition</i>”, <b>the 12<sup>th</sup> Edition of the National Seminar on Nanoscience and Nanotechnology organized by the Romanian Academy, Bucharest, Romania, May 16, 2013</b></p> <p>16) <b>R. Vidu</b>, (invited) “<i>Nanostructures: synthesis and energetic applications</i>”, <b>International Centre of Biodynamics, Bucharest, Romania, June 18, 2013</b></p> <p>17) <b>R. Vidu</b>, (invited) “<i>Present and Future in Renewable Energy in Romania</i>”, <b>University of Craiova and Drobeta Turnu-Severin, Workshop on April 5, 2013</b></p> <p>18) <b>R. Vidu</b>, (invited) “<i>Zero Net Energy Community at UC Davis West Village</i>”, <b>Bihar County Council, Oradea, Romania, February 5-8, 2012</b></p> <p>19) <b>R. Vidu</b>, (invited) “<i>Stadiul actual al cercetarii in domeniul nanomaterialelor pentru energia solara</i>”, <b>Oradea University, Oradea, Romania, February 5-8, 2012</b></p> <p>20) <b>R. Vidu</b>, (invited) “<i>Nanostructured Materials for Energy Applications</i>”, <b>Valahia University of Targoviste, Faculty of Materials and Mechanical Engineering, Targoviste, Romania, January 25, 2013</b></p> <p style="text-align: center;"><b>Total A.3.2.2.= 20*4 = 80</b></p>
		<b>3.2.3 Profesor invitat</b>	<p>1) <b>R. Vidu</b> R, KeyNote Speaker, <i>Unique Nanotechnologies Developed for Energy and Water</i>, AIC Nano Conference &amp; Exhibition on Nanotechnology, 17-19 March 2020, Kuwait</p> <p>2) <b>R. Vidu</b>, (Invited Professor) <i>Material research for energy applications</i>, <b>University of Tunis El-Manar, Faculty of Sciences, Tunis, Tunisia, April 4, 2019.</b></p> <p>3) <b>R. Vidu</b>, (Invited Professor) <i>Electrochemical template synthesis of nanowires/nanocables and characterization</i>, <b>University of Tunis El-Manar, Faculty of Sciences, Tunis, Tunisia, April 5, 2019.</b></p> <p>4) <b>R. Vidu</b>, (Invited Professor) “<i>Nanostructures for Energy Applications</i>”, <b>Solid State Physics group seminars, Torino, Italy, April 8, 2013</b></p> <p>5) <b>R. Vidu</b> (Invited Professor) to give seminars at the Tokyo University of Science from April 16 to May 29, 2011.</p> <p style="text-align: center;"><b>Total A.3.2.3.= 5*8 = 40</b></p>
		<b>Total 3.2</b>	<b>174</b>
<b>3.3</b>	<b>Membru in colectivele de redactie sau comitete stiintifice al revistelor si manifestarilor stiintifice, organizator de manifestari stiintifice / Recenzor pentru reviste si manifestari stiintifice nationale și</b>	<b>3.3.1. ISI</b>	<ul style="list-style-type: none"> <li>• <u>Reviewer:</u> Chemistry of Materials, Journal of Nanoscience and Nanotechnology, Journal of Colloids and Interface Science, Metallurgical Transaction, Surface Science Journal of Physical Chemistry B, etc. Kpi= 6 *5 = 30</li> </ul> <p><b>2014-2018 Key Reader</b> for the Metallurgical and Materials Transactions Kpi= 12</p> <p><b>2020 Associate Editor</b> for Neural Technology, Frontiers in Neuroscience (IF: 3.648) <a href="https://loop.frontiersin.org/people/110308/editorial">https://loop.frontiersin.org/people/110308/editorial</a> Kpi= 8</p> <p><b>2019: Guest Editor</b> for Special Issue "Nanostructured Photovoltaic Devices", a</p>

	<b>internationale indexate ISI</b>			<p>special issue of Micromachines (ISSN 2072-666X), IF: 2.426  <a href="https://www.mdpi.com/journal/micromachines/special_issues/Nanostructured_Photovoltaic_Devices">https://www.mdpi.com/journal/micromachines/special_issues/Nanostructured_Photovoltaic_Devices</a>  Kpi= 12</p> <p><b>2018: Editor</b> for „Nanotechnologies in Neuroscience and Neuroengineering”  Editors: I. Opris, M. Lebedev, <b>R. Vidu</b>, V.M. Pulgar, M. Enachescu, M.F. Casanova  <a href="https://loop.frontiersin.org/people/110308/editorial">https://loop.frontiersin.org/people/110308/editorial</a>  Kpi= 8</p> <p style="text-align: center;"><b>Total: 70</b></p>
		3.3.2.B DI		<ul style="list-style-type: none"> <li>• <u>Member of the Scientific Review Committee: <i>The Scientific Bulletin of Valahia University, Materials and Mechanics Faculty, ISSN 1844–1076</i></u> (published by Degruyter), a publication of the Romanian Academy of Sciences, Targoviste branche, Branch President Prof. Dr. Ion Cucui, Honorary President Academician Prof. Dr. Eng. Oprea Florea <a href="http://fsim.valahia.ro/sbmm.html/">http://fsim.valahia.ro/sbmm.html/</a>  Kpi = 10</li> </ul>
		3.3.3. National e si Internati onale neindex ate		<ol style="list-style-type: none"> <li>1. <u>Member of the Technical Program Committee, 6<sup>th</sup> International Renewable and Sustainable Energy Conference, Dec. 5-8, 2018, Rabat, Morocco</u></li> <li>2. <u>President of the ARA-43 Congress, American Romanian Academy of Arts and Sciences, University Aristotle, Thessaloniki, Greece, June 2019.</u></li> <li>3. <u>President of the ARA-42 Congress, American Romanian Academy of Arts and Sciences, University of Babes-Bolyai, Cluj-Napoca, Romania, May 23-26, 2018.</u></li> <li>4. <u>President of the ARA-41 Congress, American Romanian Academy of Arts and Sciences, University of Craiova, Craiova, Romania, July 19-22, 2017.</u></li> <li>5. <u>Member of the International Scientific Committee, 6<sup>th</sup> International Conference on Materials Science and Technologies- ROMAT 2016, Bucharest, Romania, November 9-12, 2016</u></li> <li>6. <u>President of the ARA-40 Congress, American Romanian Academy of Arts and Sciences, University of Montreal, Montreal, Canada, July 28-31, 2016.</u></li> <li>7. <u>President of the ARA-39 Congress, American Romanian Academy of Arts and Sciences, National Institute of Nuclear Physics, Frascati, Roma, Italy, July 28-31, 2015.</u></li> <li>8. <u>President of the ARA-38 Congress, American Romanian Academy of Arts and Sciences, CALTECH, Pasadena, CA, USA, July 23-27, 2014.</u></li> <li>9. <u>Fulbright Commission, reviewer for Romania (since 2013).</u></li> <li>10. <u>Member of the Organizing Committee, UC Energy Week 2010, Inventing a New Energy Future, Solar Workshop, May 10-12, 2010.</u></li> <li>11. <u>Member of the Organizing Committee, UC Davis Discovery Conference, “University of California Conference on Nanowires, Nanotubes and Nanocables Array and Their Applications”, Davis, May 5-6, 2006.</u></li> <li>12. <u>Member of the Technical Program Committee, Nanostructure Integration Techniques for Mass-Manufacturing of Devices, Circuits and Systems: Interfaces, Interconnects, and Nanosystems – II, SPIE’s International Symposium on Optics East 2006, Boston, MA.</u></li> <li>13. <u>Member of the Technical Program Committee, Nanomaterial Synthesis and Integration for Sensors, Electronics, Photonics and Electro-Optics, Conference organized by SPIE, 1-4 October, 2006, Boston, MA.</u></li> </ol> <p style="text-align: center;">Total = 12 * 5= <b>65</b></p>
<b>Total 3.3</b>				<b>145</b>
<b>3.4</b>	<b>Expert evaluate proiecte de cercetare</b>		<b>2</b>	<ol style="list-style-type: none"> <li>1. Expert European: Nr. contracte de evaluate proiecte internationale: 6  K<sub>pi</sub>= 10x6 = <b>60</b></li> <li>2. "Tailoring morphology, reduction and sintering of Cu-oxide nano-particle aggregates for low-temperature bonding" Swiss National Science Foundation (SNSF) 2019  <b>K<sub>pi</sub> = 10</b></li> </ol>
<b>Total 3.4</b>				<b>70</b>

3.5	Premii	Internationale		<p>1. Received <b>Gold Medal</b> from the Toronto International Society of Innovations and Advanced Skills (TISIAS), at the International Invention Innovation Competition in Canada, iCAN-Toronto, 2019 K<sub>pi</sub> = 10</p> <p>2. Received <b>Euroinvent Medal</b> from the Romanian Inventors Forum, at the International Invention Innovation Competition in Canada, iCAN-Toronto, 2019 K<sub>pi</sub> = 10</p> <p>3. <b>2018 Constantin Brancoveanu International Award</b> a. (<a href="https://www.thenationalherald.com/221610/the-alexandria-foundation-hosts-first-ever-event-in-u-s/">https://www.thenationalherald.com/221610/the-alexandria-foundation-hosts-first-ever-event-in-u-s/</a>) K<sub>pi</sub> = 10</p> <p>4. <b>2018 IAAM Scientist Medal, European Advanced Materials, August 23, 2018, Stockholm, Sweden.</b> K<sub>pi</sub> = 10</p> <p>5. 2017 Research Topic entitled <b>Augmentation of Brain Function: Facts, Fiction and Controversy</b> with more than 1.2 million views and downloads was awarded <b>The Frontiers Spotlight Award; I was one of the guest Editors.</b> K<sub>pi</sub> = 10</p> <p>6. Diplomă și Medalie de Argint la Salonul de Inventica EUROINVENT 2017, pentru „Magnetic nanostructures and device implementing same”, Iasi 26 – 27 mai 2017. K<sub>pi</sub> = 10</p> <p>7. Special Award oferit de Malaysian Research &amp; Innovation Society, pentru „Magnetic nanostructures and device implementing same”, Iasi 26 – 27 mai 2017. K<sub>pi</sub> = 10</p> <p>8. Special Award in Scientific Merit &amp; International Recognition, oferit de Association of Portuguese Inventors Inovatore &amp; Creatives, EUROINVENT 2017, Iasi 26 – 27 mai 2017. K<sub>pi</sub> = 10</p> <p>9. <b>2016 “Prof. Dr. Mircea Sabau” ARA Awards for Excellence in Physics/Chemistry</b>, American Romanian Academy of Arts and Sciences, California, USA. K<sub>pi</sub> = 10</p> <p>10. <b>2014 Award for Excellence in Sciences</b> from the American Romanian Academy of Arts and Sciences, California, USA. K<sub>pi</sub> = 10</p> <p>11. Received <b>2012-13 Fulbright Scholar Award</b> K<sub>pi</sub> = 10</p> <p>12. Received the <b>2011 and 2015 The President’s Volunteer Service Award</b> (lifetime) from the Romanian Community Center of Sacramento, CA K<sub>pi</sub> = 10</p> <p>13. Received <b>UNESCO Silver Medal</b>, International Exhibition for Creativity and Innovation, Bucharest, 5-10 June 1995. K<sub>pi</sub> = 10</p> <p>14. Received <b>Research Fellowship</b>, Osaka University, Japanese Ministry of Education and Science, January 1996-March 1997. K<sub>pi</sub> = 10</p> <p>15. Received <b>Ph.D. Scholarship</b>, Osaka University, Japanese Ministry of Education and Science, April 1997-March 2000. K<sub>pi</sub> = 10</p> <p>16. University of California Institute of Energy, <b>2001-02 Awards</b>, UC Energy Institute Energy Science and Technology Projects. K<sub>pi</sub> = 10</p> <p>17. Received <b>Travel Award</b>, UC Davis Postdoctoral Scholars Association (PSA). K<sub>pi</sub> = 10</p> <p>18. California Energy Commission (CEC), 2002 &amp; 2006 Energy Innovations Small Grant (EISG) Award. K<sub>pi</sub> = 10</p> <p style="text-align: right;"><b>Total 3.5.1 = 18 premii * 10 = 180</b></p>
<b>Total 3.5</b>			<b>180</b>	
3.6	Membru in academi, organizatii, asociatii	3.6.2 ASAS, AOSR si academii		<p>1. Elected Membru Honoris, Academia Scientiarum Medicinae, 2017;</p> <p>2. Elected Honorary Member of the Academy of Romanian Scientists, 2017;</p> <p style="text-align: right;"><b>Total 3.6.2 = 2 x 10 = 20</b></p>



profesionale de prestigiu, nationale si internationale, apartenență la organizatii din domeniul educatiei si cercetarii	<b>de ramunl</b>		
	<b>3.6.3 Conducere asociatii profesionale</b>	<b>3.6.3.1 Internationale</b>	President of the American Romanian Academy of Arts and Sciences since 2013  <b>Kpi=15</b>
	<b>3.6.4. Asociatii profesionale</b>	<b>3.6.4.2 internationale</b>	<ol style="list-style-type: none"> <li>1. Elected <b>Senior Member</b> of the National Academy of Inventors (NAI), USA, since 2019</li> <li>2. Member of the International Association of Advanced Materials (IAAM), since 2018</li> <li>3. Elected Member of the American Association for the Advancement of Science since 2017</li> <li>4. Elected Member of the IEEE, since 2017</li> <li>5. Elected Member of the American Romanian Academy of Art and Science since 2003.</li> <li>6. Elected Member of the Electrochemical Society, since 1998</li> <li>7. Elected Member of the Materials Research Society, since 2004</li> </ol> <p style="text-align: center;">Total 3.6 = 7 x 5 = <b>35</b></p>
<b>Total A3.6</b>			<b>70</b>
<b>Total criteriul A3 = 3.1 + 3.3 + 3.4 + 3.5 + 3.6</b>			<b>= 1631.52</b>
<b>Total A<sub>1</sub> + A<sub>2</sub> + A<sub>3</sub> (minim 400 puncte)</b>			<b>4361.36</b>