

## UNIVERSITATEA POLITEHNICA DIN BUCUREȘTI

## FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR DE PROFESOR

Conf.dr.ing. Lucian-Gabriel PETRESCU

Condiții	Îndeplinire condiții	
<b>A. Doctor</b>	Diploma de Doctor în domeniul Inginerie Electrică, Nr. 0000302, din 20.04.2010 emisă de Universitatea POLITEHNICA din București, OMECI nr. 3492 / 23.03.2010	
<b>B. Îndeplinirea standardelor minime naționale conform OMENCS Nr. 6129/20.12.2016 [MO, I, 123 / 15.02.2017]</b>	Standardele îndeplinite, conform Comisiei CNATDCU Nr. 9, <b>Inginerie Electrică</b> . Anexată: Fișa de calcul și de susținere a îndeplinirii standardelor minime specifice domeniului, în acord cu realizările menționate.	
<b>Condiții minimele [Punctaj]</b>	<b>Minim prevăzut</b>	<b>Realizat</b>
A1. Activitatea didactică și profesională	120	143,0
A2. Activitatea de cercetare	360	678,5
A3. Recunoașterea și impactul activității	120	1.336,8
<b>TOTAL (A)</b>	<b>600</b>	<b>2.158,4</b>
<b>Condiții minimele obligatorii pe subcategorii [Număr]</b>	<b>Minim prevăzut</b>	<b>Realizat</b>
A.1.1.1 Cărți cu ISBN/capitole ca autor	4	4
A.1.2.1. Suport de curs inclusiv electronic	2 (1 ca prim autor)	8 (7 ca prim autor)
A.1.2.2. Îndrumare de laborator / aplicații	2 (1 ca prim autor)	2 (1 ca prim autor)
A.2.1. Articole în extenso în reviste cotate WOS Thomson-Reuters, în volume proceedings indexate WOS Thomson-Reuters și brevete de invenție indexate WOS Derwent *)	10 (din care 4 ca prim autor și 4 în reviste cotate WOS)	35 (din care 10 ca prim autor și 21 în reviste cotate WOS), 1 brevet WOS Derwent
A.2.2. Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale (BDI)**)	20 (din care 5 reviste)	22 (din care 7 reviste)
A.2.4. Director / responsabil proiect partener la Granturi/proiecte câștigate prin competiție națională/internațională	2	2
A.3.1. Citări în revistele WOS și volumele conferințelor WOS	10	64
A.3.2. Citări în revistele BDI și volumele conferințelor BDI	20	53
<b>C. Atestarea studiilor (diploma și Foi Matricole) și a altor realizări profesionale</b>	<b>Diploma de Licență</b> , în domeniul Inginerie Electrică Nr. 3217 din 25.09.2003 emisă de Universitatea POLITEHNICA din București <b>Diploma de Master</b> , Specializarea <b>Magnetism Tehnic și Aplicat</b> Nr. 253 din 12.01.2006 emisă de Universitatea POLITEHNICA din București <b>Alte Diplome</b> ----- <b>Alte certificate:</b> Certificat de absolvire al Cursului Postuniversitar de Pregătire Psihopedagogică și Metodică, Nr. 589, din 01.06.2006 emis de Universitatea POLITEHNICA din București <b>Alte Acte de atestare a studiilor/realizărilor profesionale</b> -----	

\*) Conform situației curente de pe site-ul WOS (Web of Science)

\*\*) Bazele de date internaționale (BDI) luate în considerare pentru articolele publicate în reviste și publicate în volumele unor manifestări științifice, cu excepția articolelor publicate în reviste cotate WOS, sunt cele recunoscute pe plan științific internațional: Scopus, IEEE Xplore, Elsevier Science Direct, Engineering Village, Compendex, INSPEC, Springerlink, Cabi, EBSCO, CSA ILLUMINA/PROQUEST, Index Copernicus, Ulrich's.

Subsemnatul PETRESCU Lucian-Gabriel, Departamentul de Electrotehnică, Facultatea de Inginerie Electrică din Domeniul de Studii Univ. Inginerie Electrică, arondat Comisiei de Specialitate CNATDCU Nr. 9., Inginerie Electrică [OMENCS Nr. 6129/20.12.2016 – MO, I,123/15.02.2017] declar pe propria răspundere, cunoscând prevederile art. 292 privind falsul în declarații, din Legea 286/2009 - Codul Penal, că cele declarate mai sus sunt veridice.

Candidat,



Data

12.01.2021

Domeniul de studii universitare: Inginerie electrică  
 Criterii conform OM 6129/2016

ANEXĂ LA FIȘA JUSTIFICATIVĂ PRIVIND ÎNDEPLINIREA STANDARDELOR MINIMALE  
 Conf. dr. ing. Lucian-Gabriel PETRESCU

A1 Activitatea didactică și profesională					
Categorie	Nr. Subcategorii	Acronim din lista de lucrări	Nr.pag.	Nr. Autori	Punctaj
Carti nationale cu ISBN/ capitole ca autor, didactice sau monografii	1.1.1.		nr.pag. / (5*nr.autori)		
		Cb1. L. Petrescu, V. Ioniță, E. Cazacu, <i>Materiale magnetice pentru sisteme electromagnetice</i> , Editura Matrix Rom, 2020, ISBN 978-606-25-0584-4, 180 pagini (Cod CNCISIS Editura 39)	180	3	12.0
		Cb2. E. Cazacu, L. Petrescu, V. Ioniță, <i>Elemente de calitate și eficiență a energiei în instalațiile electrice moderne</i> , Editura Matrix Rom, 2020, ISBN 978-606-25-0564-6, 225 pagini (Cod CNCISIS Editura 39)	225	3	15.0
		Cb3. E. Cazacu, L. Petrescu - <i>Expertiza sistemelor electrice industriale</i> , Editura Printech, București, 2014, ISBN 978-606-23-0231-3, 300 pagini (Cod CNCISIS Editura 54).	300	2	30.0
		Cb4. V. Ioniță, V. Păltânea, Gh. Păltânea, L. Petrescu, G. Epureanu, A.D. Ioniță, <i>Caracterizarea avansată a materialelor magnetice</i> , Editura Politehnica Press, ISBN 973-606-515-023-2, 2009, 266 pagini (Cod CNCISIS Editura 19).	266	6	8.9
Suport de curs inclusiv electronic	1.2.1		nr.pagini / (10*nr.autori)		
		Ca1. L. Petrescu, M.C. Petrescu, E. Cazacu, <i>Bazele Electrotehnicii - Elemente de teoria circuitelor electrice</i> , Editura Matrix Rom, 2020, ISBN 978-606-25-0543-1, 142 pagini (Cod CNCISIS Editura 39).	142	3	4.7
		Ca2. L. Petrescu - <i>Bazele electrotehnicii - Elemente de teorie a câmpului electromagnetic</i> , Editura Politehnica Press, 2015, ISBN 978-606-515-625-8, 220 pagini (Cod CNCISIS Editura 19).	220	1	22.0
		Ca3. E. Cazacu (coordonator), O. Drosu, G. Epureanu, L. Petrescu, V. Mănescu, G. Păltânea, R. Costea, V. Bucată - <i>Chesitimi speciale de teoria circuitelor electrice; Elemente de teorie și aplicații</i> , vol 1, Editura Matrix Rom, 2005, ISBN 973-685-925-8, 145 pagini (Cod CNCISIS Editura 39).	145	8	1.8
		N1. L. Petrescu, <i>Electrotehnică - note de curs și aplicații pentru uzul studenților Facultății de Transporturi, Secția Material Rulant, U.P.B., 2017 (1 pagini).</i> <a href="https://curs.upb.ro/course/view.php?id=6427">https://curs.upb.ro/course/view.php?id=6427</a>	71	1	7.1
		N2. L. Petrescu, <i>Electrotehnică - note de curs și aplicații pentru uzul studenților Facultății de Transporturi, Secția Autovehicule Rutiere, U.P.B., 2018 (49 pagini).</i> <a href="https://curs.upb.ro/course/view.php?id=6425">https://curs.upb.ro/course/view.php?id=6425</a>	49	1	4.9
		N3. L. Petrescu, <i>Electrotehnică - note de curs și aplicații pentru uzul studenților Facultății de Transporturi, Secția Sistemelor de Propulsie pentru Autovehicule - IIB, U.P.B., 2020 (49 pagini).</i> <a href="https://curs.upb.ro/course/view.php?id=6426">https://curs.upb.ro/course/view.php?id=6426</a>	49	1	4.9
		N4. L. Petrescu, <i>Bazele Electrotehnicii - note de curs, pentru uzul studenților Facultății de Energetică, U.P.B., 2017 (117 pagini).</i> <a href="http://elth.pub.ro/~petrescu/energIB.html">http://elth.pub.ro/~petrescu/energIB.html</a> <a href="https://curs.upb.ro/course/view.php?id=7586">https://curs.upb.ro/course/view.php?id=7586</a>	117	1	11.7
N5. L. Petrescu, <i>Bazele Electrotehnicii II - note de curs, pentru uzul studenților Facultății de Energetică - Departamentul de Electrotehnică, Universitatea POLITEHNICA din București, 2018 (65 pagini).</i> <a href="https://energ.curs.pub.ro/2019/course/view.php?id=412">https://energ.curs.pub.ro/2019/course/view.php?id=412</a>	65	1	6.5		
N6. L. Petrescu, <i>Security and Functional Safety of Vehicle Electrical Systems (S.F.S.V.E.S.)</i> , pentru uzul studenților Facultății de Inginerie Electrică, Master ISEIA - Departamentul de Electrotehnică, Universitatea POLITEHNICA din București, 2018 (43 pagini). <a href="https://curs.upb.ro/course/view.php?id=5823">https://curs.upb.ro/course/view.php?id=5823</a>	43	1	4.3		
Îndrumare de laborator/aplicații	1.2.2		nr.pagini / (20*nr.autori)		
		I1. G. Epureanu, L. Petrescu, C. Popescu, <i>Teoria Circuitelor Electrice - Aplicații</i> , Editura MatrixRom, ISBN 978-973-755-660-8, 2010, 330 pagini (Cod CNCISIS Editura 39).	330	3	5.5
		I2. L. Petrescu, G. Epureanu, <i>Probleme de Bazele Electrotehnicii (Partea I)</i> , Editura Printech, ISBN 978-973-718-841-0, 2007, 147 pagini (Cod CNCISIS Editura 54).	147	2	3.7
<b>TOTAL A1</b>					<b>143.0</b>

A2. Activitatea de cercetare						
Categorie	Nr. Subcategorii	Acronim din lista de lucrări	Factor impact	Nr. Autori	Nr. Ani	Punctaj
Articole in extenso in reviste cotate si in volume proceedings indexate ISI Thomson- Reuters, brevete de inventie	2.1		(25+20*factor impact) / nr.de autori			433.47
		Ris1. L. Petrescu, A. Bordianu, V. Ioniță, E. Cazacu, M.C. Petrescu, <i>Improved homogenization formula used for soft magnetic composite materials</i> , <i>Revue Roumaine des Sciences Techniques - Série Electrotechnique et Energétique</i> , Ed. Academiei Române, tome 65, no. 1-2, p. 61 - 65, Bucarest, 2020, ISSN 0035-4066, WOS: 000952052900010.	0.760	5		8.04
		Ris2. L. Petrescu, M.C. Petrescu, V. Ioniță, E. Cazacu and C. D. Constantinescu, <i>Magnetic Properties of Manganese-Zinc Soft Ferrite Ceramic for High Frequency Applications</i> , <i>Materials</i> 2019, 12 (19), 3173, pp. 1-12, <a href="https://doi.org/10.3390/ma12193173">https://doi.org/10.3390/ma12193173</a> , ISSN 1996-1944, WOS: 000493308500122.	3.057	5		17.23
		Ris3. L. Petrescu, V. Ioniță, E. Cazacu, M.C. Petrescu, <i>Power losses estimation for FeSi sheets using algebraic models</i> , <i>Revue Roumaine des Sciences Techniques - Série Electrotechnique et Energétique</i> , Ed. Academiei Române, tome 64, no. 1, p. 23 - 26, Bucarest, 2019, ISSN 0035-4066, WOS: 000464302300004.	0.760	4		10.05
		Ris4. V. Ioniță, L. Petrescu, E. Cazacu, <i>Improved estimation of iron losses for non-sinusoidal voltages</i> , <i>COMPEL - The international journal for computation and mathematics in electrical and electronic engineering</i> , vol. 37, Iss. 5 pp. 1698 - 1706, 2018, ISSN: 0332-1649, <a href="https://doi.org/10.1108/COMPEL-12-2017-0527">https://doi.org/10.1108/COMPEL-12-2017-0527</a> , WOS:000448725000014.	0.590	3		12.27

Ris5. V. Ioniță, M. Codescu, E. Chițaru, L. Petrescu, E. Cazacu, <i>Hysteresis modeling accuracy for soft magnetic nanopowders</i> , Revue Roumaine des Sciences Techniques – Série Electrotechnique et Énergétique, Ed. Academiei Române, tome 63, no. 1, p. 11 - 14, Bucarest, 2018, ISSN 0035-4066, WOS: 000430897800002.	0.760	5	8.04
Ris6. E. Cazacu, V. Ioniță, L. Petrescu, <i>Thermal Aging of Power Distribution Transformers Operating under Nonlinear and Balanced Load Conditions</i> , Advances in Electrical and Electronic Engineering, vol. 16, no.1, pp. 92 - 100, 2018, DOI 10.15598/aece.v16i1.2701, ISSN: 1336-1376 (Print), 1804-3119 (Online), WOS:	0.000	3	8.33
Ris7. M.C. Petrescu, L. Petrescu, <i>Electrodynamic forces between two DC busbars distribution systems conductors</i> , U.P.B. Sci. Bull., Series C, Vol. 78, Iss. 2, 2016, ISSN 1454-234x, pp. 223 - 234, WOS: 000388733300020.	0.000	2	12.50
Ris8. V. Ioniță, L. Petrescu, E. Cazacu, <i>Effect of current harmonics on the hysteresis losses in soft magnetic materials</i> , Revue Roumaine des Sciences Techniques – Série Electrotechnique et Énergétique, Ed. Academiei Române, tome 60, no. 4, p. 366 - 375, Bucarest, 2015, ISSN 0035-4066, WOS: 000365935800003.	0.760	3	13.40
Ris9. L. Petrescu, E. Cazacu, V. Ioniță, <i>High Frequencies Losses Prediction in Soft Magnetic Materials</i> , Revue Roumaine des Sciences Techniques – Série Electrotechnique et Énergétique, Ed. Academiei Române, tome 60, no. 1, p. 49 - 58, Bucarest, 2015, ISSN 0035-4066, WOS: 000350923900006.	0.760	3	13.40
Ris10. E. Cazacu, L. Petrescu, <i>Inrush Current Investigation for Single Phase Transformers by Means of Magnetic Material Core Characterisation</i> , U.P.B. Sci. Bull., Series C, Vol. 77, Iss. 2, 2015, ISSN 1454-234x, pp. 193 - 204, WOS: 000421799900016.	0.000	2	12.50
Ris11. E. Cazacu, L. Petrescu, <i>On-site derating of in-service power distribution transformers supplying nonlinear loads</i> , Revue Roumaine des Sciences Techniques – Série Electrotechnique et Énergétique, Ed. Academiei Române, tome 59, no. 3, p. 259-268, Bucarest, 2014, ISSN 0035-4066, WOS:000341801300004.	0.760	2	20.10
Ris12. E. Cazacu, V. Ioniță, L. Petrescu, <i>Transformer inrush current predetermination for distorted waveform voltage supply</i> , Revue Roumaine des Sciences Techniques – Série Electrotechnique et Énergétique, Ed. Academiei Române, tome 58, no. 3, pp. 342-351, Bucarest, 2013, ISSN 0035-4066, WOS:000324447900002.	0.760	3	13.40
Ris13. L. Petrescu, A. Bordianu, V. Ioniță, <i>Homogenization efficiency for composite materials in 2D magnetostatic exterior problems</i> , Rev. Roum. Sci. Techn. – Électrotech. et. Énerg., Ed. Academiei Române, tome 58, no. 2, Bucarest 2013, ISSN 0035-4066, pp. 135 - 144, WOS: 000320488100004.	0.760	3	13.40
Ris14. V. Ioniță, L. Petrescu, A. Bordianu, O. Tabara, <i>Efficient Use of Preisach Hysteresis Model in Computer Aided Design</i> , Advanced in Electrical and Computer Engineering, volume 13, no. 2, 2013, ISSN 1582-7445, pp. 121 - 126, DOI: 10.4316/AECE.2013.02019, WOS: 000322179400019.	1.102	4	11.76
Ris15. V. Ioniță, I. Covaltu, L. Petrescu, A. Bordianu, O. Tabara, <i>Magnetic Characterization of the Fe3O4 nanoparticles used in biomaterials</i> , Rev. Roum. Sci. Techn. – Électrotech. et. Énerg., Ed. Academiei Române, tome 57, no. 2, Bucarest 2012, ISSN 0035-4066, pp. 154 - 161, WOS: 000305202600005.	0.760	5	8.04
Ris16. A. Bordianu, V. Ioniță, L. Petrescu, <i>Micro-scale Numerical Simulation of the Magnetic Recording</i> , Rev. Roum. Sci. Techn. – Électrotech. et. Énerg., Ed. Academiei Române, tome 57, no. 1, Bucarest 2012, ISSN 0035-4066, pp. 3 - 9, WOS: 000303096800001.	0.760	3	13.40
Ris17. V. Ioniță, L. Petrescu, <i>Magnetic Material Characterization by Open Sample Measurements</i> , Rev. Roum. Sci. Techn. – Électrotech. et. Énerg., Ed. Academiei Române, tome 54, no. 1, Bucarest 2009, ISSN 0035-4066, pp. 87 - 94, WOS: 000264503000009.	0.760	2	20.10
Ris18. C. Constantinescu, N. Scarisoreanu, A. Moldovan, M. Dinescu, L. Petrescu, G. Epureanu, <i>Thin films of NdFeB deposited by PLD technique</i> , Applied Surface Science, Vol. 253, no. 19, pp. 8192-8196, ISSN: 0169-4332, 2007, DOI: 10.1016/j.apsusc.2007.02.165, WOS: 000249020500109.	6.182	6	24.77
Ris19. L. Petrescu, <i>Comparison between frequently used Hysteresis Models</i> , Rev. Roum. Sci. Techn. – Électrotech. et. Énerg., Ed. Academiei Române, tome 52, no. 3, Bucarest 2007, ISSN 0035-4066, pp. 311 - 320, WOS: 000255783700005.	0.760	1	40.20
Ris20. V. Ioniță, L. Petrescu, A. Razicbeanu, <i>Adjustable device for magnetic material investigation by Kernmicroscopy</i> , Int. Journal of Appl. Electromagnetics and Mechanics, Vol. 25, no. 1-4, ISSN 1383-5416, 2007, pp. 199 - 203, WOS: 000248151100033.	0.684	3	12.89
Ris21. V. Ioniță, L. Petrescu, <i>Numerical Advanced Characterization of Recording Magnetic Media</i> , JOAM, vol. 8, No. 3, June 2006, ROMSC 2005 (fași, ROU), ISSN 1454-4164, pp. 998-1000, WOS: 000238506500020.	0.631	2	18.81
Vis1. L. Petrescu, B. Cheșca, E. Cazacu, C. Petrescu, <i>Planar transformer windings losses at different waveforms</i> , 10th International Symposium on Advanced Topics in Electrical Engineering ATEE 2017, 23th - 25th March 2017, Bucharest, ISBN 978-1-5090-5160-1, Pages: 350 - 353, DOI: 10.1109/ATEE.2017.7905163, WOS:000403399400068.		4	6.25
Vis2. V. Ioniță, E. Cazacu, L. Petrescu, <i>Remarks about the magnetic characterization of magnetite nanopowders</i> , 10th International Symposium on Advanced Topics in Electrical Engineering ATEE 2017, 23th - 25th March 2017, Bucharest, ISBN 978-1-5090-5160-1, Pages: 369 - 372, DOI: 10.1109/ATEE.2017.7905176, WOS:000403399400072.		3	8.33
Vis3. E. Cazacu, V. Ioniță, L. Petrescu, <i>An efficient method for investigating the ferroresonance of single-phase iron core devices</i> , 10th International Symposium on Advanced Topics in Electrical Engineering ATEE 2017, 23th - 25th March 2017, Bucharest, ISBN 978-1-5090-5160-1, Pages: 363 - 368, DOI: 10.1109/ATEE.2017.7905167, WOS:000403399400071.		3	8.33
Vis4. L. Petrescu, E. Cazacu, V. Ioniță, C. Petrescu, <i>Comparison between non-oriented silicon iron sheets used for electrical machines</i> , 10th International Symposium on Advanced Topics in Electrical Engineering ATEE 2017, 23th - 25th March 2017, Bucharest, ISBN 978-1-5090-5160-1, Pages: 524 - 528, DOI: 10.1109/ATEE.2017.7905174, WOS:000403399400102.		4	6.25
Vis5. L. Petrescu, E. Cazacu, C. Petrescu, <i>Sigmoid Functions Used in Hysteresis Phenomenon Modeling</i> , The 9th International Symposium on Advanced Topics in Electrical Engineering, ATEE 2015, 7th - 9th May 2015, Bucharest, ISBN 978-4673-8093-5, pp. 521 - 524, DOI:10.1109/ATEE.2015.7133863, WOS: 000368159800098.		3	8.33
Vis6. E. Cazacu, V. Ioniță, L. Petrescu, <i>Numerical and Experimental Investigations on the Energizing of Miniature Iron Core Transformers</i> , The 9th International Symposium on Advanced Topics in Electrical Engineering, ATEE 2015, 7th - 9th May 2015, Bucharest, ISBN 978-4673-8093-5, pp. 170 - 175, DOI: 10.1109/ATEE.2015.7133759, WOS: 000368159800030.		3	8.33
Vis7.A. Bordianu, L. Petrescu, V. Ioniță, <i>Numerical testing of homogenization formulas efficiency for magnetic composite materials</i> , Journal of Physics: Conference Series 585 (2015) 012003, IOP Publishing, ISSN 1742-6588, pp. 1-8, DOI: 10.1088/1742-6596/585/1/012003, WOS: 000352196800003.		3	8.33
Vis8. L. Petrescu, E. Cazacu, V. Ioniță, C. Petrescu, <i>Characterization of Soft Magnetic Materials in a Wide Range of Frequencies</i> , International Symposium on Fundamentals of Electrical Engineering, ISFEE 2014, 28th-29th November 2014, Bucharest, ISBN: 978-1-4799-6820-6, pp.1-6, DOI: 10.1109/ISFEE.2014.7050630, WOS: 000380570500098.		4	6.25
Vis9. E. Cazacu, L. Petrescu, <i>Derating the three-phase power distribution transformers under nonsinusoidal operating conditions: A case study</i> , Proceeding on the 16th IEEE International Conference on Harmonics and Quality of Power (ICHQP), pp. 488 - 492, Bucharest 25-28 May 2014, Romania, ISBN 978-1-4673-6487-4, ISSN 2164-0610, DOI:10.1109/ICHQP.2014.6842930, WOS:0003437761001001.		2	12.50
Vis10. E. Cazacu, L. Petrescu, <i>Magnetising inrush current of low-voltage iron core three phase power reactors</i> , Proceeding on the 16th IEEE International Conference on Harmonics and Quality of Power (ICHQP), pp. 843 - 847, Bucharest 25-28 May 2014, Romania, ISBN 978-1-4673-6487-4, ISSN 2164-0610, DOI: 10.1109/ICHQP.2014.6842874, WOS:000343776100173.		2	12.50
Vis11. E. Cazacu, V. Ioniță, L. Petrescu, <i>An Improved Method for the Inrush Current Evaluation in Single Phase Power Transformers</i> , Proceeding on the 8th International Symposium on Advanced Topics in Electrical Engineering, ISBN 978-1-4673-5979-5, Bucharest 23-25 May 2013, Romania, pp. 1 - 6, DOI:10.1109/ATEE.2013.6563390, WOS:000332928500044.		3	8.33

		Vis12. E. Cazacu, L. Petrescu, <i>A Simple and Low-Cost Method for Miniature Power Transformers' Hysteresis Losses Evaluation</i> , Proceeding on the 8th International Symposium on Advanced Topics in Electrical Engineering, ISBN 978-1-4673-5979-5, Bucharest 23-25 May 2013, Romania, 2013, pp. 1 - 4, DOI: 10.1109/ATEE.2013.6563452, WOS:000332928500106.	2	12.50
		Vis13. V. Ioniță, L. Petrescu, <i>Computational errors in hysteresis Preisach modelling</i> , „Mathematics in Industry, vol.11. (Scientific Computing in Electrical Engineering)”, Editors. G. Ciuprina, D. Ican, Springer Verlag, Berlin, ISBN 978-3-540-71979-3, 2007, pp. 317 - 322, WOS:000250107700034.	2	12.50
		El. Brevet RO132277-A2/29.11.206 - H. Gavrilă, A. Iorga, W. Kappel, E. Manta, A. Mija, G. Paltanea, V. Paltanea, D. Pătroi, E.A. Pătroi, I. Peter, L. Petrescu, G. Scutaru, <i>Method for estimating the effect of sheet-metal cutting manner upon iron losses (Metoda de estimare a efectului modului de taiere prin stantare a tolelor asupra pierderilor in fier a masinilor electrice)</i> , Derwent Primary Accession Number: 2017-820437 (OSIM A/00335 - 11.05.2016)	12	2.08
Articole in reviste si volumele unor manifestari stiintifice indexate in alte baze de date internationale	2.2		20/nr.de autori	129.00
		Rio1. L. Petrescu, E. Cazacu, M.C. Petrescu, <i>Failure Mode and Effect Analysis in Automotive Industry: A Case Study</i> , The Scientific Bulletin of Electrical Engineering Faculty, vol. 19, No. 2 (40), pp. 10 - 15, ISSN 2286-2455, DOI: <a href="https://doi.org/10.1515/sbeef-2019-0014">https://doi.org/10.1515/sbeef-2019-0014</a> . (Elsevier, Scopus, Compendex, ProQuest, EBSCO, Index Copernicus)	3	6.67
		Rio2. L. Petrescu, E. Cazacu, V. Ioniță, M.C. Petrescu, <i>An Experimental Device for Measuring the Single-Phase Transformers Inrush Current</i> , The Scientific Bulletin of Electrical Engineering Faculty, vol. 19, No. 1 (40), pp. 18 - 22, ISSN 2286-2455, DOI: <a href="https://doi.org/10.1515/sbeef-2019-0004">https://doi.org/10.1515/sbeef-2019-0004</a> . (Elsevier, Scopus, Compendex, ProQuest, EBSCO, Index Copernicus)	4	5.00
		Rio3. M.C. Petrescu, L. Petrescu, E. Cazacu, <i>Influence of planar transformer windings interleaving on parasitic parameters</i> , Electrotehnică, Electronică, Automatică, EEA, vol. 66, no. 2, 2018, ISSN: 1582-5175, pp. 45 - 50. (Elsevier, Engineering Village, Scopus, Compendex, ProQuest, ProQuest-Ulrich's Periodical Directory, EBSCO, Index Copernicus).	3	6.67
		Rio4. E. Cazacu, V. Ioniță, L. Petrescu, <i>Transient State Characterization of Asynchronous Motors in Modern Low-Voltage Electric Installations</i> , The Scientific Bulletin of Electrical Engineering Faculty, vol. 18 (1), pp. 19 - 25, ISSN 2286-2455, DOI: 10.1515/SBEEF-2017-0017. (Elsevier, Scopus, Compendex, ProQuest, EBSCO, Index Copernicus).	3	6.67
		Rio5. E. Cazacu, L. Petrescu, M.C. Petrescu, <i>The Major Predictive Maintenance Actions of the Electric Equipments in the Industrial Facilities</i> , The Scientific Bulletin of Electrical Engineering Faculty, vol. 18 (1), pp. 26 - 33, ISSN 2286-2455, DOI: 10.1515/SBEEF-2017-0018. (Elsevier, Scopus, Compendex, ProQuest, EBSCO, Index Copernicus).	3	6.67
		Rio6. L. Petrescu, E. Cazacu, M.C. Petrescu, <i>The Nonlinear and Unbalanced Loads Quantitative Impact on the Neutral Conductor Current</i> , Electrotehnică, Electronică, Automatică, EEA, vol. 64, no. 1, 2016, ISSN: 1582-5175, pp. 48 - 54. (Elsevier, Engineering Village, Scopus, Compendex, ProQuest, ProQuest-Ulrich's Periodical Directory, EBSCO, Index Copernicus).	3	6.67
		Rio7. L. Petrescu, H. Gavrilă, <i>Modeling the soft magnetic materials with high permeability in a large range of frequencies</i> , U.P.B. Sci. Bull. Series C, Vol. 72, Iss. 2, 2010, ISSN 1454-234x, pp. 189 - 196. (ULRICHS INTERNATIONAL PERIODICALS DIRECTORY, INSPEC, SCOPUS, ELSEVIER SCIENCESS BIBLIOGRAPHIC DATABASES, metadex, ENGINEERING VILLAGE, CAMBRIDGE SCIENTIFIC ABSTRACTS, ENGINEERED MATERIALS ABSTRACTS)	2	10.00
		Vio1. E. Cazacu, S. Pușcașu, A. Bordianu, L. Petrescu, <i>The ferroresonance computation of single-phase small power transformers encountered in low-voltage electric installations</i> , 2020 IEEE 21st International Conference on Computational Problems of Electrical Engineering (CPEE), Pińczów, Poland, 2020, pp. 1-4, doi: 10.1109/CPEE50798.2020.9238728. (IEEEExplore, Scopus)	4	5.00
		Vio2. M. Bucur, G. Rosu, A. Bordianu, L. Petrescu, V. Ioniță, O. Baltag, <i>Simplified Design of a Low Frequency Search Coil Magnetometer</i> , 11th International Symposium on Advanced Topics in Electrical Engineering 11th ATEE 2019, 28th - 30th March 2019, Bucharest, ISBN 978-1-7281-0101-9, Pages: 1-6, DOI: 10.1109/ATEE.2019.8724978. (IEEEExplore, Scopus)	6	3.33
		Vio3. C. Vinga, S. Musuroi, F. M. Frigura-Iliasa, E. Cazacu, L. Petrescu, F. D. Surianu, <i>Computational Study About the Active Power and Energy Losses of a 40 MVA 110/6 kV Transformer</i> , 2018 IEEE 22nd International Conference on Intelligent Engineering Systems (INES), Las Palmas de Gran Canaria, Spain, 21-23 June, 2018, pp. 000077-000080, ISSN: 1543-9259, doi: 10.1109/INES.2018.8523961. (IEEEExplore, Scopus)	6	3.33
		Vio4. V. Ioniță, L. Petrescu, E. Cazacu, <i>Impact of Steinmetz Coefficients Variance for FeSi Laminate Magnetic Cores</i> , 2018 International Symposium on Fundamentals of Electrical Engineering (ISFEE), Bucharest, Romania, 1-3 Nov. 2018, Electronic ISBN: ISBN: 978-1-5386-7212-9, USB ISBN: 978-1-5386-7211-2, Print on Demand (PoD) ISBN: 978-1-5386-7213-6, pp. 1-4, doi: 10.1109/ISFEE.2018.8742477. (IEEEExplore, Scopus)	3	6.67
		Vio5. E. Cazacu, M.C. Petrescu, V. Ioniță, L. Petrescu, <i>Nonsinusoidal load current effect on the electrical and thermal operating parameters of oil filled power distribution transformers</i> , Proceeding on the 18th IEEE International Conference on Harmonics and Quality of Power (ICHQP), pp. 1 - 6, Ljubljana, 13-16 May 2018, Slovenia, e-ISBN 978-1-5386-0517-2, DOI: 10.1109/ICHQP.2018.8378838. (IEEEExplore, Scopus)	4	5.00
		Vio6. V. Ioniță, E. Cazacu, L. Petrescu, <i>Effect of voltage harmonics on iron losses in magnetic cores with hysteresis</i> , Proceeding on the 18th IEEE International Conference on Harmonics and Quality of Power (ICHQP), pp. 1 - 5, Ljubljana, 13-16 May 2018, Slovenia, e-ISBN 978-1-5386-0517-2, DOI: 10.1109/ICHQP.2018.8378843. (IEEEExplore, Scopus)	3	6.67
		Vio7. A. Paun, C. M. Vinga, F. M. Frigura-Iliasa, D. Vatau, E. Cazacu, L. Petrescu, <i>Study about the active power and energy losses of a 400V 57 kW asynchronous motor</i> , 19th International Scientific Conference on Electric Power Engineering (EPE), Brno, Czech Republic, 2018, 16-18 May 2018, pp. 1-4, E-ISBN: 978-1-5386-4612-0, E-ISSN: 2376-5631, DOI: 10.1109/EPE.2018.8395951. (IEEEExplore, Scopus)	6	3.33
		Vio8. M. Frigura-Iliasa, L. Petrescu, E. Cazacu, F.M. Frigura-Iliasa, <i>Computer aided study of the hard-magnetic materials anisotropy</i> , 2017 IEEE 21st International Conference on Intelligent Engineering Systems (INES), pp. 109 - 112, DOI: 10.1109/INES.2017.8118538. (IEEEExplore, Scopus)	4	5.00
		Vio9. V. Ioniță, E. Cazacu, L. Petrescu, E.-A. Pătroi, E. Manta, <i>Improved prediction of hysteresis losses in electrical machine cores</i> , 2017 International Conference on Modern Power Systems (MPS), 2017, Pages: 1 - 4, ISBN:978-1-5090-6565-3, DOI: 10.1109/MPS.2017.7974403. (IEEEExplore)	5	4.00
		Vio10. E. Cazacu, L. Petrescu, V. Ioniță, <i>Flux-current description of some particular iron core devices</i> , 2017 International Conference on Modern Power Systems (MPS), 2017, Pages: 1 - 4, ISBN:978-1-5090-6565-3, DOI: 10.1109/MPS.2017.7974373. (IEEEExplore, Scopus)	3	6.67

		Vio11. E. Cazacu, L. Petrescu, V. Ioniță, <i>Derating of power distribution transformers serving nonlinear industrial loads</i> , 2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), 2017, ISBN:978-1-5090-4489-4, Pages: 90 -95, DOI: 10.1109/OPTIM.2017.7974953. (IEEEExplore, Scopus)		3	6.67
		Vio12. L. Petrescu, V. Ioniță, E. Cazacu, C. Petrescu, <i>Steinmetz' parameters fitting procedure for the power losses estimation in soft magnetic materials</i> , 2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), 2017, Pages: 208 - 213, ISBN:978-1-5090-4489-4, DOI: 10.1109/OPTIM.2017.7974972. (IEEEExplore, Scopus)		4	5.00
		Vio13. E. Cazacu, L. Petrescu, V. Ioniță, <i>Ferroresonance modes determination of single-phase toroidal transformers</i> , 2017 15th International Conference on Electrical Machines, Drives and Power Systems (ELMA), Sofia, Bulgaria, 2017, pp. 358 - 361, DOI: 10.1109/ELMA.2017.7955463. (IEEEExplore, Scopus)		3	6.67
		Vio14. E. Cazacu, L. Petrescu, V. Ioniță, <i>Losses and temperature rise within power transformers subjected to distorted currents</i> , 2017 15th International Conference on Electrical Machines, Drives and Power Systems (ELMA), Sofia, Bulgaria, 2017, pp. 362 - 365, DOI: 10.1109/ELMA.2017.7955464. (IEEEExplore, Scopus)		3	6.67
		Vio15. V. Ioniță, L. Petrescu, E. Cazacu, <i>Influence of Harmonics' Initial Phases on Magnetic Losses in Non-Oriented Grains FeSi Sheets</i> , International Symposium on Fundamentals of Electrical Engineering, ISFEE2016, 30th June 1st July 2016, Bucharest, pp. 1-5, DOI:10.1109/ISFEE.2016.7803213. (IEEEExplore, Scopus)		3	6.67
Director/ responsabil - Granturi/proiecte nationale castigate prin competitie	2.4.1			10*ani de desfasurare	
		Pn1. Proiect FOC - Cercetare / Proiect Tehnologic Inovativ (PTI) - Sistem Inovativ de Protectie Anticoroziva Activa a Metalelor Alimentate de la Surse Regenerabile de Energie - SIPAMASRE, cod proiect SMIS 121611 (Contractor ICPE ACTEL) - Responsabil Partner P1 - U.P.B. (Iunie 2020 - iunie 2023) <a href="http://www.poc.research.gov.ro/articol/4322/cv-alinara-tehnico-financiar-pentru-proiectele-demise-pe-actiunea-1-2-3-stimulare-cercari-interdisciplinare-pentru-inovare-tip-proiect-tehnologic-inovativ-coduri-apel-poc-163-1-3-1-poc-222-1-3">http://www.poc.research.gov.ro/articol/4322/cv-alinara-tehnico-financiar-pentru-proiectele-demise-pe-actiunea-1-2-3-stimulare-cercari-interdisciplinare-pentru-inovare-tip-proiect-tehnologic-inovativ-coduri-apel-poc-163-1-3-1-poc-222-1-3</a>		0.5	5.00
		Pn2. Proiect de cercetare CEC de Inovare 203CI/25.07.2018 (PN-III-P2-2.1-CI-2018-1217) (ET.02.18.03) - Sistem Inteligent de Evaluare, Prelucrare și Analiză a Curenilor de Conectare a Echipamentelor Electrice (SIEPACEB) autoritatea contractantă UEFISCDI, Contractor - UPB. <a href="http://uefiscdi.ro/resource-843097e7e406e4d33aa2a60be5f1408583469228e983ff7e80e6e0b3ps=XY1BD0toFEXoMserFDgWUdmczoP4AndXG5g0FannK8ruUWRIfzMbrvYYkrQ1JgjjX1DaEtrOnjKyDsQJgtWQUnFERSKNimulaBtdHdJlP7d1092XYytkXQZLmcziacXUGUqONycQCfHXq9cBymjJND60R2JG0y5ZXuUVE9VCJP172eStgFNy51tWLNT+ff6G8FIMn9EsnjyndoR6dyXxzyUZzlyHVNpusiVnTD7b1Dn3Bw==Ewclh=cac5ac9ch12058d580d94688c374d821cf67e7d5">http://uefiscdi.ro/resource-843097e7e406e4d33aa2a60be5f1408583469228e983ff7e80e6e0b3ps=XY1BD0toFEXoMserFDgWUdmczoP4AndXG5g0FannK8ruUWRIfzMbrvYYkrQ1JgjjX1DaEtrOnjKyDsQJgtWQUnFERSKNimulaBtdHdJlP7d1092XYytkXQZLmcziacXUGUqONycQCfHXq9cBymjJND60R2JG0y5ZXuUVE9VCJP172eStgFNy51tWLNT+ff6G8FIMn9EsnjyndoR6dyXxzyUZzlyHVNpusiVnTD7b1Dn3Bw==Ewclh=cac5ac9ch12058d580d94688c374d821cf67e7d5</a>		0.5	5.00
Membri in echipa - Granturi/proiecte nationale castigate prin competitie	2.4.2	<b>Internaționale</b>		4*ani de desfasurare	
		Pn1. Nanostructured and amorphous magnetic alloys for high-frequency applications - Bilateral (Italo-Romanian) (2006 - 2009) (Director proiect: prof. Horia Gavrilă)		3.0	12.00
		<b>Naționale</b>		2*ani de desfasurare	
		Pn2. Sistem Inteligent de Mentenanță Predictivă a unor Echipamente Electrice Industriale Critice (CEC Inovare 204CI / 25.07.2018 - Director de Proiect - prof. Emil CAZACU) (2018)		0.5	1.00
		Pn3. Sistem Inteligent de Monitorizare Continuă și Denominare a Parametrilor Transformatoarelor de Distribuție în Regim Nesinusoidal (CEC Inovare 187CI / 25.07.2018 - Director de Proiect - prof. Emil CAZACU) (2018)		0.5	1.00
		Pn4. Predeterminarea pierderilor de energie pentru proiectarea îmbunătățită a miezurilor nanocompozite magnetice moi în aplicații având game extinse de frecvențe (BLIDEP) - Proiect Experimental Demonstrativ - PED70 (2017 - 2018) (Director de proiect: prof. Valentin IONIȚĂ).		1.5	3.00
		Pn5. Mașini electrice cu eficiență sporită, prin utilizarea unor soluții tehnice avansate, bazate pe predeterminarea proprietăților magnetice ale tolelor (MEP-MAC) - Parteneriate (2012 - 2016) (Director de proiect: prof. Horia GAVRILĂ)		4.0	8.00
		Pn6. Sistem micro - electro - mecanic cu aplicații în reconstrucția microchirurgicală a nervilor periferici (RECONNECT) - Parteneriate (2008 - 2011) (Director de proiect: prof. Horia GAVRILĂ)		3.0	6.00
		Pn7. Biochip microfluidic pentru caracterizarea reologică a fluidelor biologice ne-newtoniene cu aplicații în diagnostic și tratament medical (MELANOCHIP) - Parteneriate (2008 - 2011) (Director de proiect: prof. Horia GAVRILĂ)		3.0	6.00
		Pn8. Dezvoltarea unor modele experimentale și numerice de caracterizare a materialelor magnetice cu histerezis (MATHYS) - proiect Ceex (2006 - 2008) (Director de proiect: prof. Valentin IONITA)		2.0	4.00
		Pn9. Aprofundarea cunoștințelor de spintronică prin dezvoltarea fizicii compușilor Heusler ajustabili (ASPIDHA) - proiect Ceex (2005 - 2008) (Director de proiect: prof. Horia GAVRILĂ)		3.0	6.00
		Pn10. Metoda experimentală pentru studiul materialelor cu proprietăți magnetice prin efect magneto-optic KERR (MAGNE-KERR) - proiect Ceex (2005 - 2008) (Director de proiect: prof. Valentin IONIȚĂ)		3.0	6.00
		Pn11. Sistem microfluidic integrat pentru analiza in vitro a fluidelor biologice cu aplicații în diagnostic și tratament medical (MICRODIAG) - proiect Ceex (2005 - 2008) (Director de proiect: prof. Horia GAVRILĂ)		3.0	6.00
		Pn12. Cercetări fundamentale și aplicative integrate în domeniul materialelor multifuncționale nanostructurate (NANOCONS) - grant CNCIS (2005 - 2007) (Director de proiect: prof. Horia GAVRILĂ)		2.0	4.00
		Pn13. Analiza configurațiilor statice și dinamice de magnetizație în materiale magnetice prin efect magneto optic - proiect CERES (2004 - 2006) (Director de proiect: prof. Valentin IONIȚĂ)		2.0	4.00
		Pn14. Mijloace de protecție complexă la interferența electromagnetică pe nave militare - proiect CERES (2004 - 2006) (Director de proiect: prof. Horia GAVRILĂ)		2.0	4.00
		Pn15. Reducerea amprentei magnetice a navei militare în scopul protecției împotriva câmpurilor de mine marine - proiect CERES (2003 - 2005) (Director de proiect: prof. Horia GAVRILĂ)		2.0	4.00
		Pn16. Instalatii de conversie energetica neconventionala de mica putere, bazata pe integrarea unor materiale avansate si solutii tehnologice noi" - proiect RELANSIN (2003 - 2005) (Director de proiect: prof. Valentin IONIȚĂ)		2.0	4.00

		Pa17. Solutii noi de optimizare a ecranelor de protectie pentru radiatii electromagnetice nelonizate in gama extinsa de frecventa 500 kHz - 10GHz - proiect CERES (2002 - 2004) (Director de proiect: prof. Horia GAVRILĂ)			2.0	4.00
Director/ responsabil - contracte de cercetare/consultanta (peste 2000 euro)	2.5.1					15.00
		Pa1. Proiect de cercetare Mobilități Cercetători MCS6/2017 (ET.02.17.10) (autoritatea contractantă UEFISCDI, Contractor – UPB), Director proiect: Lucian Petrescu. <a href="https://uefiscdi.gov.ro/resource-831397&amp;wtok=9bd1bc40e7bed375a1e6390cd4e39a1fd315530a&amp;wtkps=XY9bDoIwEEX3M+CTB+Awx6MiStAWqGhUkN5mBj3bkESo383k3PuzZSU0dOTJjH1nooDCHjKYoC0+cwBsFIQkkEGmmUU9N6m0/J5fDw1k/u6kefkx74Q86wtZOTjaLEHGDnwwouxZYqIS0s5ZgRKHXvTuc9zxKWszYR+QKy4H4vC4YoOSJHvVbK1Tr+OZgQ/llsvKTX3ZBuTo1Wx66v41Fjja+UisEj57jB1M5C8XrDQ==&amp;wchk=87437f4b8113d60235a6af5e78fc69056a5a7e5">https://uefiscdi.gov.ro/resource-831397&amp;wtok=9bd1bc40e7bed375a1e6390cd4e39a1fd315530a&amp;wtkps=XY9bDoIwEEX3M+CTB+Awx6MiStAWqGhUkN5mBj3bkESo383k3PuzZSU0dOTJjH1nooDCHjKYoC0+cwBsFIQkkEGmmUU9N6m0/J5fDw1k/u6kefkx74Q86wtZOTjaLEHGDnwwouxZYqIS0s5ZgRKHXvTuc9zxKWszYR+QKy4H4vC4YoOSJHvVbK1Tr+OZgQ/llsvKTX3ZBuTo1Wx66v41Fjja+UisEj57jB1M5C8XrDQ==&amp;wchk=87437f4b8113d60235a6af5e78fc69056a5a7e5</a>			0.5	2.50
		Pa2. Analiza regimului termic al dispozitivelor electromagnetice ce funcționează în regim periodic nesinusoidal - 29 / 26.09.2016 (GEX-UPB) - Director proiect (autoritatea contractantă UPB - Contractor: Lucian Petrescu, tip proiect: Grant Intern de Cercetare) <a href="http://www.upb.ro/files/evenimente/cercetare/2016/Rezultate_finale_granturi_UPB.pdf">http://www.upb.ro/files/evenimente/cercetare/2016/Rezultate_finale_granturi_UPB.pdf</a>			1.0	5.00
		Pa3. Bursă postdoctorală în cadrul U.P.B. în cadrul proiectului "ExcelDOC - Excelență în cercetare prin burse doctorale și postdoctorale", POSDRU/159/1.5/S/132397 - responsabil bursa			1.5	7.50
Membri - contracte de cercetare/consultanta (peste 2000 euro)	2.5.2					8.00
		Pa4. Analiza numerică a miezului nanocompozit al unui transformator planar (proiect Gex-UPB 3/26.09.2017) (2017 - 2018) (Director de proiect: as. Maria-Cătălina PETRESCU). <a href="http://www.oid.upb.ro/files/evenimente/cercetare/2017/Rezultate_Finale_UPB-GEX2017-final.pdf">http://www.oid.upb.ro/files/evenimente/cercetare/2017/Rezultate_Finale_UPB-GEX2017-final.pdf</a>			1.0	2.00
		Pa5. Program strategic pentru promovarea inovării în servicii prin educație deschisă, continuă (INSEED) - POSDRU/86/1.2/S/57748 (2011 - 2013) - Expert pe termen lung. <a href="http://www.inseed.cimr.pub.ro/">http://www.inseed.cimr.pub.ro/</a>			3.0	6.00
<b>TOTAL A2</b>						<b>678.5</b>

### A3. Recunoasterea si impactul activitatii

Categorie	Nr. Subcategorii	Acronim din dosar / detalii	Nr. Autori	Nr. Ani	Punctaj
Citiri in reviste si volumele conferintelor ISI (64)	3.1		5 / nr. autori ai art. citat		110.4
	ISI1	V. Ioniță, L. Petrescu, A. Bordianu, O. Tabara, Efficient Use of Preisach Hysteresis Model in Computer Aided Design, Advanced in Electrical and Computer Engineering, volume 13, no. 2, 2013, ISSN 1582-7445, pp. 121 - 126 citat in Dimian, M. Andrei, P. Scalar and vector hysteresis simulations using HysterSoft, Journal of Physics Conference Series, vol. 585, Art.No. 012002, 2015, DOI: 10.1088/1742-6596/585/1/012002, WOS:000352196800002.	4		1.3
	ISI2	V. Ioniță, L. Petrescu, A. Bordianu, O. Tabara, Efficient Use of Preisach Hysteresis Model in Computer Aided Design, Advanced in Electrical and Computer Engineering, volume 13, no. 2, 2013, ISSN 1582-7445, pp. 121 - 126 citat in R. Campeanu, M. Cemat, Two Speed Single Phase Induction Motor with Electronically Controlled Capacitance, Advanced in Electrical and Computer Engineering, volume 14, no. 3, 2014, ISSN 1582-7445, pp. 137 - 140, WOS:000340869800018.	4		1.3
	ISI3	V. Ioniță, L. Petrescu, Magnetic Material Characterization by Open Sample Measurements, Rev. Roum. Sci. Techn. - Électrotech. et. Énerg., 54, 1, Bucharests 2009, ISSN 0035-4066, pp. 87 - 94 citat in AG. Rosu, G. Samoilescu, O. Baltag, Statistical approach of underwater magnetic field measurements of the naval magnetic signature, Rev. Roum. Sci. Techn. - Électrotech. et. Énerg., 63, 4, Bucharest 2018, ISSN 0035-4066, pp. 132- 137, WOS: 000438662400004.	2		2.5
	ISI4	V. Ioniță, L. Petrescu, Magnetic Material Characterization by Open Sample Measurements, Rev. Roum. Sci. Techn. - Électrotech. et. Énerg., 54, 1, Bucharests 2009, ISSN 0035-4066, pp. 87 - 94 citat in A.D. Ionita, A. Olteanu, Domain Specific Models, Knowledge and Tools to Support Multiple Learning Styles for Engineering Students, Rev. Roum. Sci. Techn. - Électrotech. et. Énerg., 59, 4, Bucharest 2014, ISSN 0035-4066, pp. 423- 432, WOS:000346950200009.	2		2.5
	ISI5	V. Ioniță, L. Petrescu, Magnetic Material Characterization by Open Sample Measurements, Rev. Roum. Sci. Techn. - Électrotech. et. Énerg., 54, 1, Bucharests 2009, ISSN 0035-4066, pp. 87 - 94 citat in E. Cazacu, I.V. Nemoianu, Quasi-vertical permanent magnet levitation - analytical model and characterization, Rev. Roum. Sci. Techn. - Électrotech. et. Énerg., 59, 1, Bucharest 2014, ISSN 0035-4066, pp. 13- 24, WOS:000333440000002.	2		2.5
	ISI6	V. Ioniță, L. Petrescu, Magnetic Material Characterization by Open Sample Measurements, Rev. Roum. Sci. Techn. - Électrotech. et. Énerg., 54, 1, Bucharests 2009, ISSN 0035-4066, pp. 87 - 94 citat in A. Olteanu, G. Stamatescu, A.D. Ionita, V. Sgarciu, Enhanced Data Integration for LabVIEW Laboratory Systems, 2013 8th International Symposium on Advanced Topics in Electrical Engineering (ATEE), 2013, ISSN 978-1-4673-5980-1; 978-1-4673-5979-5, WOS:000332928500189.	2		2.5
	ISI7	Électrotech. et. Énerg., 54, 1, Bucharests 2009, ISSN 0035-4066, pp. 87 - 94 citat in G. Kustler, I.V. Nemoianu, E. Cazacu, Theoretical and Experimental Investigation of Multiple Horizontal Diamagnetically Stabilized Levitation with Permanent Magnets, IEEE Trans Mag, 12(48), 2012, WOS:000311793000013, DOI: 10.1109/TMAG.2012.2204273.	2		2.5
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	ISI9	C. Constantinescu, A. Purice, N. Scarisoreanu, A. Moldovan, M. Dinescu, L. Petrescu, G. Epureanu, Thin films of NdFeB deposited by PLD technique, Applied Surface Science, Vol. 253 (19), 2007, ISSN: 0169-4332 citat in K. Patel, J. Zhang, S. Ren, Rare-earth-free high energy product manganese-based magnetic materials, Nanoscale, 2018 Jul 5;10(25):11701-11718. doi: 10.1039/c8nr01847b, WOS: 000437761500001.	7		0.7
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BDI21	G. Epureanu, L. Petrescu, C. Popescu, <i>Teoria Circuitelor Electrice - Aplicații</i> , Ed. MatrixRom, Bucuresti, 2010 <b>citat in</b> C.I. Dumitrescu, M.O. Popescu, Characteristics of Different UPS Topologies, in Electrotehnica, Electronica, Automatica (EEA), 2016, vol. 64, no. 4, pp. 102-105, ISSN 1582-5175. (BDI: SCOPUS, INSPEC, Index Copernicus International, ProQuest)	3	1.0
BDI22	E. Cazacu, L. Petrescu, V. Ioniță, Losses and temperature rise within power transformers subjected to distorted currents, 2017 15th International Conference on Electrical Machines, Drives and Power Systems (ELMA), Sofia, Bulgaria, 2017, pp. 362 - 365 <b>citat in</b> B. A. Thango, J. A. Jordaán, A. F. Nnachi, Stray Gassing of Transformer Oil in Distributed Solar Photovoltaic (DSPV) Systems, 2020 6th IEEE International Energy Conference (ENERGYCon), pp. 484 - 488, Tunisia, 2020, DOI: 10.1109/ENERGYCon48941.2020.9236522 (BDI-IEEEExplore).	3	1.0
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BDI27	E. Cazacu, L. Petrescu, V. Ioniță, Losses and temperature rise within power transformers subjected to distorted currents, 2017 15th International Conference on Electrical Machines, Drives and Power Systems (ELMA), Sofia, Bulgaria, 2017, pp. 362 - 365 <b>citat in</b> T. Chegskul, T. Tayjasantan, An impact of harmonic currents, load levels and ambient temperatures on transformer loss of life, 2019 2nd International Conference on Clean Energy and Electrical Systems, IOP Conf. Series: Journal of Physics: Conf. Series 1311 (2019) 012047, doi:10.1088/1742-6596/1311/1/012047 (BDI - Scopus).	3	1.0
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BDI30	E. Cazacu, L. Petrescu, V. Ioniță, <i>Losses and temperature rise within power transformers subjected to distorted currents</i> , 2017 15th International Conference on Electrical Machines, Drives and Power Systems (ELMA), Sofia, Bulgaria, 2017, pp. 362 – 365 <a href="#">citat in</a> S. S. Kostinskiy, V. A. Mokhov, T. N. Kruglova, D. V. Shaikhutdinov, A. S. Vlasov, Agent-based approach for analysis of electricity distribution technological processes in power systems, IOP Conference Series: Materials Science and Engineering, Volume 483, Number 1, paper ID 012080 pp.1-7, 2019, <a href="https://doi.10.1088/1757-899X/483/1/012080">https://doi.10.1088/1757-899X/483/1/012080</a> , Print ISSN: 1757-8981, Online ISSN: 1757-899X (BDI - Scopus).	3	1.0
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BDI37	E. Cazacu, M.C. Petrescu, V. Ionița, L. Petrescu, <i>Nonsinusoidal load current effect on the electrical and thermal operating parameters of oil filled power distribution transformers</i> , Proceeding on the 18th IEEE International Conference on Harmonics and Quality of Power (ICHQP), 2018 <a href="#">citat in</a> A. Fakhrian, B. Ganji, H.R. Mohammadi, H. Samet, De-rating of Transformers under Non-sinusoidal Loads: Modeling and Analysis, 2019 IEEE International Conference on Environment and Electrical Engineering and 2019 IEEE Industrial and Commercial Power Systems Europe (EEIC / I&CPS Europe), 11-14 June 2019, pp. 1-5, DOI: 10.1109/EEIC.2019.8783508 (BDI - IEEE Explore)	4	0.8
BDI38	E. Cazacu, M.C. Petrescu, V. Ionița, L. Petrescu, <i>Nonsinusoidal load current effect on the electrical and thermal operating parameters of oil filled power distribution transformers</i> , Proceeding on the 18th IEEE International Conference on Harmonics and Quality of Power (ICHQP), 2018 <a href="#">citat in</a> L. Kovernikova, N. Van Cuong, Evaluation of the Influence of Non-sinusoidal Conditions on Power Transformers, E3S Web of Conferences vol. 58, article no. 03012, no. Of pages. 5, 2018, eISSN: 2267-1242, <a href="https://doi.org/10.1051/e3sconf/20185803012">https://doi.org/10.1051/e3sconf/20185803012</a> , Section Energy Security, Reliability and Quality of Energy Consumption, Modeling and Information Technology RSES-2018 (BDI: SCPOPUS, EBESCO, ProQuest)	4	0.8
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BDI40	E. Cazacu, V. Ionița, L. Petrescu, <i>Thermal Aging of Power Distribution Transformers Operating under Nonlinear and Balanced Load Conditions</i> , Advances in Electrical and Electronic Engineering, vol. 16, no.1, pp. 92 - 100, 2018, DOI 10.15598/aeee.v16i1.2701, ISSN: 1336-1376 (Print), 1804-3119 (Online), WOS: 000429160100009 <a href="#">citat in</a> Z. I. M. Yassin, D. M. Said, N. Ahmad, NN Nik Abd Malik, H. Abdullah, Impact of unbalanced harmonic loads towards winding temperature rise using FEM modeling, Indonesian Journal of Electrical Engineering and Informatics (IJEI), Vol. 8, No. 2, June 2020, pp. 409-418 ISSN: 2089-3272, DOI: 10.11591/ijeiv8i2.1283 (BDI - Scopus).	3	1.0
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BDI42	E. Cazacu, V. Ionița, L. Petrescu, <i>Thermal Aging of Power Distribution Transformers Operating under Nonlinear and Balanced Load Conditions</i> , Advances in Electrical and Electronic Engineering, vol. 16, no.1, pp. 92 - 100, 2018, DOI 10.15598/aeee.v16i1.2701, ISSN: 1336-1376 (Print), 1804-3119 (Online), WOS: 000429160100009 <a href="#">citat in</a> H. Nafisi, Investigation on Distribution Transformer Loss of Life due to Plug-In Hybrid Electric Vehicles Charging, 2018, International Journal of Ambient Energy, pp. 1-19, DOI: 10.1080/01430750.2018.1563816. (BDI - Scopus, Inspec)	3	1.0

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BDI45	E. Cazacu, L. Petrescu, <i>Derating the three-phase power distribution transformers under nonsinusoidal operating conditions: A case study</i> , Proceeding on the 16th IEEE International Conference on Harmonics and Quality of Power (ICHQP), pp. 488 - 492, Bucharest 25-28 May 2014, Romania, ISBN 978-1-4673-6487-4, ISSN 2164-0610, DOI:10.1109/ICHQP.2014.6842930, WOS: 0003437761001001 <b>citat in</b> B. A. Thango, J. A. Jordaan, A. F. Nnachi, <i>On the Impact of Solar Photovoltaic Generation on the Thermal Ageing of Transformers</i> , 2020 6th IEEE International Energy Conference (ENERGYCon), pp. 356 - 359, Tunisia, 2020, DOI: 10.1109/ENERGYCon48941.2020.9236471. (BDI - IEEEExplore).	2	1.5
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BDI48	E. Cazacu, L. Petrescu, <i>Derating the three-phase power distribution transformers under nonsinusoidal operating conditions: A case study</i> , Proceeding on the 16th IEEE International Conference on Harmonics and Quality of Power (ICHQP), pp. 488 - 492, Bucharest 25-28 May 2014, Romania, ISBN 978-1-4673-6487-4, ISSN 2164-0610, DOI:10.1109/ICHQP.2014.6842930, WOS: 0003437761001001 <b>citat in</b> S.S. Kostinskiy, D.V. Shaykhutdinov, E.V. Kirievskiy, Y.M. Manatskov, N.D. Narakidze, <i>Realisation and Approbation of Conditionally Constant Coefficients Method for Loss Counter Measuring Tools</i> , IOP Conf. Ser.: Mater. Sci. Eng. 665 (2019), 012004, pp. 1-6, doi:10.1088/1757-899X/665/1/012004 (BDI - Scopus).	2	1.5
BDI48	E. Cazacu, L. Petrescu, <i>Derating the three-phase power distribution transformers under nonsinusoidal operating conditions: A case study</i> , Proceeding on the 16th IEEE International Conference on Harmonics and Quality of Power (ICHQP), pp. 488 - 492, Bucharest 25-28 May 2014, Romania, ISBN 978-1-4673-6487-4, ISSN 2164-0610, DOI:10.1109/ICHQP.2014.6842930, WOS: 0003437761001001 <b>citat in</b> V. Mokhov, S. Kostinskiy, D. Shaykhutdinov, A. Lankin, Y. Manatskov, <i>On the Task of Multi-objective Dynamic Optimization Power Losses</i> . In: Murgul V., Pasetti M. (eds) International Scientific Conference Energy Management of Municipal Facilities and Sustainable Energy Technologies EMMFT 2018. EMMFT-2018 2018. Advances in Intelligent Systems and Computing, vol 983, pp. 611-619, Springer, Cham, <a href="https://doi-org.ame-information.ro/10.1007/978-3-030-19868-8_58">https://doi-org.ame-information.ro/10.1007/978-3-030-19868-8_58</a> , Print ISBN 978-3-030-19867-1, Online ISBN 978-3-030-19868-8, eBook Packages Intelligent Technologies and Robotics (BDI - Springerlink).	2	1.5
BDI49	E. Cazacu, L. Petrescu, <i>Derating the three-phase power distribution transformers under nonsinusoidal operating conditions: A case study</i> , Proceeding on the 16th IEEE International Conference on Harmonics and Quality of Power (ICHQP), pp. 488 - 492, Bucharest 25-28 May 2014, Romania, ISBN 978-1-4673-6487-4, ISSN 2164-0610, DOI:10.1109/ICHQP.2014.6842930, WOS: 0003437761001001 <b>citat in</b> S. S. Kostinskiy, V. A. Mokhov, T. N. Kruglova, D. V. Shaikhutdinov, A. S. Vlasov, <i>Agent-based approach for analysis of electricity distribution technological processes in power systems</i> , IOP Conference Series: Materials Science and Engineering, Volume 483, Number 1, paper ID 012080 pp.1-7, 2019, <a href="https://doi-10.1088/1757-899X/483/1/012080">https://doi-10.1088/1757-899X/483/1/012080</a> , Print ISSN: 1757-8981, Online ISSN: 1757-899X (BDI - Scopus).	2	1.5
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BDI51	E. Cazacu, L. Petrescu, V. Ionița, <i>Ferroresonance modes determination of single-phase toroidal transformers</i> , 2017 15th International Conference on Electrical Machines, Drives and Power Systems (ELMA), Sofia, Bulgaria, 2017, pp. 358 - 361, DOI: 10.1109/ELMA.2017.7955463, WOS: 000413685000074 <b>citat in</b> S. S. Kostinskiy, V. A. Mokhov, T. N. Kruglova, D. V. Shaikhutdinov, A. S. Vlasov, <i>Agent-based approach for analysis of electricity distribution technological processes in power systems</i> , IOP Conference Series: Materials Science and Engineering, Volume 483, Number 1, paper ID 012080 pp.1-7, 2019, <a href="https://doi-10.1088/1757-899X/483/1/012080">https://doi-10.1088/1757-899X/483/1/012080</a> , Print ISSN: 1757-8981, Online ISSN: 1757-899X (BDI - Scopus).	3	1.0
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BDI53	V. Ionița, E. Cazacu, L. Petrescu, <i>Effect of voltage harmonics on iron losses in magnetic cores with hysteresis</i> , Proc. ICHQP, Ljubljana, Slovenia, 2018, pp. 1-5 <b>citat in</b> A. Çiçek, A. K. Erenoglu, O. Erding, A. Bozkurt, A. Tascikaraoglu, J. P.S. Catalao, <i>Implementing a demand side management strategy for harmonics mitigation in a smart home using real measurements of household appliances</i> , International Journal of Electrical Power & Energy Systems, Volume 125, 2021, 106528, pp. 1-10, ISSN 0142-0615, <a href="https://doi.org/10.1016/j.ijepes.2020.106528">https://doi.org/10.1016/j.ijepes.2020.106528</a> . (BDI - IEEEExplore).	3	1.0
ISI-Membru in colectivele de redactie sau comitete stiintifice al revistelor si manifestarilor stiintifice, Organizator de manifestari stiintifice, Recenzor pentru reviste si manifestari stiintifice nationale si internationale (punctajul se acorda pentru fiecare revista, manifestare stiintifica si recenzie)	3.4.1	ISI	10 * fiecare revista, manifestare stiintifica si recenzie
		2 recenzii Applied Surface Science (indexata ISI - IF 5.155) - ID12175 / 2019, ID15174 / 2019	20.0
		1 recenzie Optics and Lasers in Engineering (OLE) - Elsevier (IF 4,059) - IDOLEN_2019_1958/2020	10.0
		1 recenzie Journal of Physics and Chemistry of Solids (PCS) (IF 2,752) - PCS_2020_795/2020	10.0
		3 recenzii ATEE 2019 (conf indexata ISI) - ID38, ID99, ID181	30.0
		6 recenzii ICAEE 2019 (conf indexata ISI) - ID4301, ID4314, ID4317, ID4338, ID4339, ID4423	60.0
		5 recenzii IEEE Acces - ID33327/2019, ID03133/2020, ID10413/2020, ID12894/2020, ID44250/2020	50.0

		16 recenzii MDPI Energy (indexata ISI - IF 2.707) - ID563771/2019, ID587575/2019, ID603773/2019, ID631212/2019, ID657578/2019, ID705488/2020, ID718598/2020, ID791777/2020, ID817125/2020, ID823899/2020, ID866420/2020, ID880928/2020, ID910478/2020, ID987488/2020, ID1004883/2020, ID1042163/2020		160.0
		3 recenzii MDPI Metals (IF - 2.259) - ID684037/2019, ID848410/2020, ID848633/2020		30.0
		2 recenzii MDPI Electronics (IF - 1.764) - ID848410/2020, ID975312/2020		20.0
		4 recenzii MPS2019 (conferinta Indexata ISI) - ID34, ID77, ID81, ID190		40.0
		001449		50.0
		1 recenzie PhysicaB (indexata ISI - IF 1.874) - PHYSB-D-19-01610		10.0
		4 recenzii ISFEE 2018 (conf indexata ISI) - 487-1616-1-RV, 504-1652-1-RV, 508-1666-1-RV, 511-1668-1-RV		40.0
		1 recenzie Optik (indexata ISI) - IJLEO-D-18-04655/2018		10.0
		9 recenzii PEMCS 2018 (conf indexata ISI) - tmp-0537, tmp-0590, tmp-1399, tmp-1817, tmp-2223, tmp-2243, tmp-4225, tmp-6008, tmp-7024		90.0
		3 recenzii ATEE 2017 (conf indexata ISI) - ID97, ID107, ID225		30.0
		1 recenzie IET Generation, Transmission & Distribution (indexata ISI - IF 3.229) - GTD-2017-1314/2017		10.0
		1 recenzie ISFEE2016 (conf indexata ISI) - ID280		10.0
		4 recenzii ATEE 2015 (conf indexata ISI) - ID115, ID128, ID231, ID257		40.0
		16 recenzii BSUPB (indexata ISI) - 4099/2016, 4197/2015, 4282/2015, 5165/2016, 5380/2016, 6065/2017, 6590/2018, 6803/2018, 7806/2019, 8809/2019, 9156/2019, 9177/2019, 10126/2020, 10127/2020, 10202/2020, 10534/2020.		160.0
		5 recenzii ISFEE2014 (conferinta indexata ISI) - ID13, ID70, ID76, ID133, ID137		50.0
		2 recenzii Revue (indexata ISI) - ID66/2013, ID81/2014		20.0
		3 recenzii ATEE 2011 (conf indexata ISI) - ID146, ID150, ID176		30.0
		6 recenzii ATEE 2013 (conf indexata ISI) - ID1, ID18, ID181, ID98, ID146, ID155		60.0
BDI-Membru in colectivele de redactie sau comitete stiintifice al revistelor si manifestarilor stiintifice, Organizator de manifestari stiintifice, Recenzor pentru reviste si manifestari stiintifice nationale si internationale (punctajul se acorda pentru fiecare, revista, manifestare stiintifica si recenzie)	3.4.2	BDI	6 * fiecare revista, manifestare stiintifica si recenzie	
		2 recenzii JEMS (indexata Scopus, Springer) - JEMS-D-20-00448/2020, JEMS-D-20-01322/2020		12.0
		1 recenzie JESTCH (indexata Scopus) - JESTCH_2018_73/2018		6.0
		6 recenzii ASTES (indexata Scopus) - RVELE0428, RVMCR0041, RVMMU0035, RVMCM0078, RVMS80037, RVMCI0088		36.0
		3 recenzii Buletinul stiintific UPB (revista B+, indexat Scopus, Inspec) (2012 - 2014) - 1196/2012, 2523/2012, 3350/2014		18.0
		5 recenzii Journal of Energy and Power Engineering (revista B+, indexat Ulrich's International Periodicals Directory, ProQuest) - JEPE15060802/2015, JEPE14040801/2014, JEPE14092003/2013, JEPE16031702/2014, JEPE16050502/2014		30.0
Neindexate-Membru in colectivele de redactie sau comitete stiintifice al revistelor si manifestarilor stiintifice, Organizator de manifestari stiintifice, Recenzor pentru reviste si manifestari stiintifice nationale si internationale (punctajul se acorda pentru fiecare, revista, manifestare stiintifica si recenzie)	3.4.3		3 * fiecare revista, manifestare stiintifica si recenzie	
		Membru in comitetul de organizare a conferintei Internationale - MMDE (2004, 2006, 2008)		9.0
		Membru in comitetul de organizare SNET2012 (indexat Google Scholar)		3.0
		Chairmen sectiune SNET2012 (indexat Google Scholar)		3.0
		Membru in comitetul de organizare a conferintei Internationale - ROMSC 2010		3.0
Membru academi, organizatii, asociatii de prestigiu, nationale si internationale, aparteneta la organizatii din domeniu educatiei si cercetarii	3.7.4		Internationale - 5 puncte / Nationale - 2 puncte	
		Asociatii profesionale		
		Membru IEEE - No. 92566505		5.0
		Membru ACIR - legitamatie nr. 62068		2.0
		Membru SRMM - Societate Română de Materiale Magnetice		2.0
		Membru AIEER		2.0
<b>TOTAL A3</b>				<b>1336.8</b>
<b>TOTAL (A1+A2+A3)</b>				<b>2158.2</b>

