

**FIȘA DE VERIFICARE PRIVIND ÎNDEPLINIREA STANDARDELOR  
MINIMALE**

**Conform OMENCS 6129 / 20.12.2016**

**COMISIA INGINERIE ELECTRICĂ**

**Conf.dr.ing. ȘERBAN Ioan**

Departamentul de Inginerie Electrică și Fizică Aplicată  
Facultatea de Inginerie Electrică și Știința Calculatoarelor  
Universitatea *Transilvania* din Brașov

**Brașov**

**2018**

### Centralizator condiții minime profesor

Nr. crt.	Domeniul de activitate	Condiții minime profesor	Realizat	Categorii și restricții	Condiții minime profesor	Realizat
1	Activitatea didactică / profesională (A1)	120	121.93	1.1.1 Cărți cu ISBN/ capitole ca autor	4	4
				1.2.1 Suport de curs inclusiv electronic	2 (1 ca prim autor)	3 (3 ca prim autor)
				1.2.2 Îndrumare de laborator/ aplicații	2 (1 ca prim autor)	2 (2 ca prim autor)
2	Activitatea de cercetare (A2)	360	1399.06	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 (4 ca prim autor și minim 4 în reviste)	41 (30 ca prim autor, 14 reviste, 26 conf., 1 brevet acordat + 3 cereri depuse)
				2.2 Articole în reviste și în volumele unor manifestări științifice indexate în alte baze de date internaționale (BDI)	20 (5 în reviste)	20 (7 reviste, 13 conf.)
				2.4.1 Director/ responsabil proiect partener	2	2
3	Recunoașterea impactului activității (A3)	120	1982.92	3.1 Citări în revistele WOS și volumele conferințelor WOS	10	300 (202 reviste, 98 conf.)
				3.2 Citări în revistele BDI și volumele conferințelor BDI	20	71 (29 reviste, 42 conf.)
<b>TOTAL</b>		<b>600</b>	<b>3503.91</b>			

Activitatea didactică / profesională (A1)					
Tipul activităților	Categoriile și restricții	Subcategoriile	Indicatori ( $k_{pi}$ )	Realizat	
				Număr	Punctaj
1.1 Cărți și capitole în cărți de specialitate	1.1.1 Cărți cu ISBN/ capitole ca autor: <b>Profesor minim 4</b>	1.1.1.1 internaționale	nr. pagini/ (2*nr.autori)	0	<b>0</b>
		1.1.1.2. naționale	nr. pagini/ (5*nr.autori)	4	<b>53.43</b>
	1.1.2 Cărți/capitole de cărți ca editor/coordonator	1.1.2.1 internaționale	nr. pagini/ (3*nr.autori)	0	<b>0</b>
		1.1.2.2 naționale	nr. pagini/ (7*nr.autori)	0	<b>0</b>
1.2 Suport didactic	1.2.1 Suport de curs inclusiv electronic: <b>Profesor minim 2 din care 1 ca prim autor</b>		nr. pagini/ (10*nr.autori)	3 (3 ca prim autor)	<b>49.8</b>
	1.2.2 Îndrumare de laborator/ aplicații: <b>Profesor minim 2 din care minim 1 ca prim autor</b>		nr. pagini/ (20*nr.autori)	2 (2 ca prim autor)	<b>8.7</b>
1.3 Coordonare de programe de studii, organizare și coordonare programe de formare continuă și proiecte educaționale (POS, ERASMUS, s.a.)	Punctaj unic pentru fiecare activitate		10	1	<b>10</b>
<b>TOTAL A1</b>					<b>121.93</b>

Activitatea de cercetare (A2)					
Tipul activităților	Categoriile și restricții	Subcategoriile	Indicatori ( $k_{pi}$ )	Realizat	
				Număr	Punctaj
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	2.1.1 Profesor: <b>minim 10 articole din care minim 4 ca prim autor și minim 4 în reviste</b>		(25+20*FI)/nr. autori	41 (30 ca prim autor, 14 reviste, 26 conf., 1 brevet acordat + 3 cereri)	<b>1127.71</b>
2.2 Articole în reviste și în volumele unor manifestări științifice indexate în alte baze de date internaționale (BDI)	2.2.1 Profesor: <b>minim 20 articole din care minim 5 în reviste</b>		20/nr. autori	20 (7 reviste, 13 conf.)	<b>179.35</b>
2.3 Brevete de invenție indexate în alte baze de date		2.3.1 internaționale	25/nr. autori	0	<b>0</b>
		2.3.2 naționale	15/nr. autori	0	<b>0</b>
2.4 Granturi/proiecte câștigate prin competiție națională/internațională	2.4.1 Director/responsabil proiect partener: <b>minim 2 pentru profesor</b>	2.4.1.1 internaționale	20*ani de desfășurare	0	<b>0</b>
		2.4.1.2 naționale	10*ani de desfășurare	2	<b>40</b>
	2.4.2 Membru în echipa	2.4.2.1 internaționale	4*ani de desfășurare	3	<b>28</b>
		2.4.2.2 naționale	2*ani de desfășurare	4	<b>24</b>
2.5 Contracte de cercetare/consultanță (valoare echivalentă de minim 2000 Euro)	2.5.1 Director / Responsabil proiect partener		5*ani de desfășurare	0	<b>0</b>
	2.5.2 Membru în echipă		2*ani de desfășurare	0	<b>0</b>
<b>TOTAL A2</b>					<b>1399.06</b>

<b>Recunoașterea impactului activității (A3)</b>					
<b>Tipul activităților</b>	<b>Categoriile și restricții</b>	<b>Subcategoriile</b>	<b>Indicatori (<math>k_{pi}</math>)</b>	<b>Realizat</b>	
				<b>Număr</b>	<b>Punctaj</b>
3.1 Citări în revistele WOS și volumele conferințelor WOS	3.1.1 Profesor: <b>minim 10 citări</b>		5/nr. autori ai articolului citat	300 (202 reviste, 98 conf.)	<b>844.17</b>
3.2 Citări în revistele BDI și volumele conferințelor BDI	3.2.1 Profesor: <b>minim 20 citări</b>		3/nr. autori ai articolului citat	71 (29 reviste, 42 conf.)	<b>113.75</b>
3.3 Prezentări invitate în plenul unor manifestări științifice naționale și internaționale și Profesor invitat (exclusiv POS, ERASMUS)	Punctaj unic pentru fiecare activitate	3.3.1 internaționale	20	0	<b>0</b>
		3.3.2 naționale	5	0	<b>0</b>
3.4 Membru în colective de redacție sau comitete științifice ale revistelor și manifestărilor științifice, organizator de manifestări științifice, recenzor pentru reviste și manifestări științifice naționale și internaționale (punctajul se acordă pentru fiecare revistă, manifestare științifică și recenzie)		3.4.1 WOS	10	101	<b>1010</b>
		3.4.2 BDI	6	0	<b>0</b>
		3.4.3 Naționale și internaționale neindexate	3	0	<b>0</b>
3.5 Referent în comisii de doctorat		3.5.1 internaționale	10	0	<b>0</b>
		3.5.2 naționale	5	0	<b>0</b>
3.6 Premii		Premii internaționale	10	1	<b>10</b>
3.7 Membru în academii, organizații, asociații profesionale de prestigiu, naționale și internaționale, apartenența la organizații din domeniul educației și cercetării	3.7.4 Asociații profesionale	internaționale	5	1	<b>5</b>
<b>TOTAL A3</b>					<b>1982.92</b>

## DETALIEREA PUNCTAJULUI

### Activitatea didactică/profesională (A1)

#### 1.1 Cărți și capitole în cărți de specialitate:

Nr. crt.	1.1.1.2 Cărți cu ISBN/capitole ca autor - naționale	Punctaj nr. pagini/ (5*nr.autori)
1	<b>I. Serban</b> , „Microretele Hibride cu Surse Regenerabile de Energie”, Editura Universitatii <i>Transilvania</i> din Brasov, 2008. ISBN: 978-973-598-428-1 ; <b>146 pagini.</b>	29.2
2	C. Marinescu, M. Georgescu, L. Clotea, C.P. Ion, <b>I. Serban</b> , L. Barote, D-M. Valcan, „Surse Regenerabile de Energie. Abordări Actuale”, Editura Universitatii <i>Transilvania</i> din Brasov, 2009. ISBN: 978-973-598-430-4 ; <b>380 pagini.</b>	10.86
3	C. Marinescu, <b>I. Serban</b> , L. Clotea, D. Marinescu, C.P. Ion, M. Georgescu, L. Barote, A. Forcos, „Rețele Hibride cu Surse Regenerabile de Energie. Evoluții Moderne”, Editura Universitatii <i>Transilvania</i> din Brasov, 2011. ISBN: 978 - 973 - 598 - 949 - 1; <b>380 pagini.</b>	9.5
4	G. Scutaru, <b>I. Serban</b> , A. Negoita, „CAD for Electrical Systems. Scilab”, Editura Universitatii <i>Transilvania</i> din Brasov, 2012. ISBN: 978-606-19-0108-1; <b>58 pagini.</b>	3.87
	<b>TOTAL 1.1.1.2</b>	<b>53.43</b>

#### 1.2 Suport didactic:

Nr. crt.	1.2.1 Suport de curs inclusiv electronic	Punctaj nr. pagini/ (10*nr.autori)
1	<b>I. Serban</b> , „CAD/CAE in Power Electronics”, suport de curs în format electronic, <b>86 pagini.</b> <a href="https://elearning.unitbv.ro/mod/resource/view.php?id=46212">https://elearning.unitbv.ro/mod/resource/view.php?id=46212</a>	8.6
2	<b>I. Serban</b> , „Programarea calculatoarelor și limbaje de programare III”, suport de curs în format electronic, <b>101 pagini.</b> <a href="https://elearning.unitbv.ro/mod/resource/view.php?id=46215">https://elearning.unitbv.ro/mod/resource/view.php?id=46215</a>	10.1
3.	<b>I. Serban</b> , „Smart Electrical Microgrids”, suport de curs în format electronic, <b>175 pagini.</b> <a href="https://elearning.unitbv.ro/mod/resource/view.php?id=46214">https://elearning.unitbv.ro/mod/resource/view.php?id=46214</a>	17.5
4.	<b>I. Serban</b> , „Instalații Electrice la Consumatori”, suport de curs în format electronic, <b>136 pagini.</b> <a href="https://elearning.unitbv.ro/mod/resource/view.php?id=43585">https://elearning.unitbv.ro/mod/resource/view.php?id=43585</a>	13.6
	<b>TOTAL 1.2.1</b>	<b>49.8</b>

Nr. crt.	1.2.2 Îndrumare de laborator/aplicații	Punctaj nr. pagini/ (20*nr.autori)
1	<b>I. Serban</b> , „CAD/CAE in Power Electronics”, îndrumar de laborator în format electronic <b>65 pagini.</b> <a href="https://elearning.unitbv.ro/mod/resource/view.php?id=46213">https://elearning.unitbv.ro/mod/resource/view.php?id=46213</a>	3.25
2	<b>I. Serban</b> , „Programarea calculatoarelor și limbaje de programare III”, îndrumar de laborator și proiect în format electronic, <b>61 pagini</b> <a href="https://elearning.unitbv.ro/mod/resource/view.php?id=46216">https://elearning.unitbv.ro/mod/resource/view.php?id=46216</a>	3.05

<b>3.</b>	<b>I. Serban, „Smart Electrical Microgrids”, îndrumar de laborator în format electronic, 48 pagini.</b> <a href="https://elearning.unitbv.ro/mod/resource/view.php?id=43586">https://elearning.unitbv.ro/mod/resource/view.php?id=43586</a>	2.4
	<b>TOTAL 1.2.2</b>	<b>8.7</b>

**1.3 Coordonare de programe de studii, organizare și coordonare programe de formare continuă și proiecte educaționale (POS, ERASMUS, s.a.)**

<b>1</b>	Coordonator program de studii de masterat Sisteme Electrice Avansate, Departamentul de Inginerie Electrică și Fizică Aplicată, Facultatea de Inginerie Electrică și Știința Calculatoarelor.	<b>10</b>
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## Activitatea de cercetare (A2)

### 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

Nr. crt.	Reviste cotate WOS Thomson-Reuters	Punctaj (25+20*FI)/ nr.autori
1	<b>I. Serban</b> , C. Marinescu, „Aggregate load-frequency control of a wind-hydro autonomous microgrid”, Renewable Energy, Elsevier, 2011, 36, (12), pp. 3345-3354. WOS:000293424400015. <b>FI<sub>JCR2017</sub>=4.9.</b> <a href="https://dx.doi.org/10.1016/j.renene.2011.05.012">https://dx.doi.org/10.1016/j.renene.2011.05.012</a>	61.5
2	<b>I. Serban</b> , C. Marinescu, „A sensorless control method for variable-speed small wind turbines, Renewable Energy”, Elsevier, 2012, 43, pp. 256-266. WOS:000301311500027. <b>FI<sub>JCR2017</sub>=4.9.</b> <a href="https://dx.doi.org/10.1016/j.renene.2011.12.018">https://dx.doi.org/10.1016/j.renene.2011.12.018</a>	61.5
3	<b>I. Serban</b> , C. Marinescu, „Power quality issues in a stand-alone microgrid based on renewable energy”, Revue Roumaine Des Sciences Techniques-Serie Electrotechnique Et Energetique, vol 53, no. 3, 2008, pp. 285-293. WOS:000260440200006. <b>FI<sub>JCR2017</sub>=1.114.</b> <a href="http://revue.elth.pub.ro/index.php?action=details&amp;id=132">http://revue.elth.pub.ro/index.php?action=details&amp;id=132</a>	23.64
4	L. Barote, C. Marinescu, <b>I. Serban</b> , „Energy Storage for a Stand-Alone Wind Energy Conversion System”, Revue Roumaine Des Sciences Techniques-Serie Electrotechnique Et Energetique, vol 55, no. 3, 2010, pp. 235-242. WOS:000283001600004. <b>FI<sub>JCR2017</sub>=1.114.</b> <a href="http://revue.elth.pub.ro/upload/97936904Barote.pdf">http://revue.elth.pub.ro/upload/97936904Barote.pdf</a>	15.76
5	<b>I. Serban</b> , R. Teodorescu, C. Marinescu, „Energy Storage Systems Impact on the Short-Term Frequency Stability of Distributed Autonomous Microgrids, an Analysis Using Aggregate Models”, IET Renewable Power Generation, vol 7, no. 5, Sept. 2013, pp. 531-539. WOS:000323560600012. <b>FI<sub>JCR2017</sub>=3.488.</b> <a href="https://dx.doi.org/10.1049/iet-rpg.2011.0283">https://dx.doi.org/10.1049/iet-rpg.2011.0283</a>	31.59
6	<b>I. Serban</b> , C. Marinescu, „Battery energy storage system for frequency support in microgrids and with enhanced control features for uninterruptible supply of local loads”, International Journal of Electrical Power and Energy Systems, vol. 54, Jan. 2014, pp. 432-441. WOS:000325831600043. <b>FI<sub>JCR2017</sub>=3.61.</b> <a href="https://dx.doi.org/10.1016/j.ijepes.2013.07.004">https://dx.doi.org/10.1016/j.ijepes.2013.07.004</a>	48.6
7	<b>I. Serban</b> , C. Marinescu, „Control Strategy of Three-Phase Battery Energy Storage Systems for Frequency Support in Microgrids and with Uninterrupted Supply of Local Loads”, IEEE Transactions on Power Electronics, vol. 29, no. 9, Sept. 2014, pp. 5010-5020. WOS:000335959900055. <b>FI<sub>JCR2017</sub>=6.812.</b> <a href="https://doi.org/10.1109/TPEL.2013.2283298">https://doi.org/10.1109/TPEL.2013.2283298</a>	80.62
8	<b>I. Serban</b> , C. Marinescu, „Design and experimental investigations of a smart battery energy storage system for frequency control in microgrids”, Journal of Renewable and Sustainable Energy, vol.6, no.2, pp. 023130, March 2014. WOS:000336155400033. <b>FI<sub>JCR2017</sub>=1.337</b> <a href="https://doi.org/10.1063/1.4873995">https://doi.org/10.1063/1.4873995</a>	25.87



9	<b>I. Serban</b> , "Power Decoupling Method for Single-Phase H-Bridge Inverters With No Additional Power Electronics," IEEE Transactions on Industrial Electronics, vol. 62, no. 8, pp. 4805-4813, Aug. 2015. WOS:000357268300015. FI <sub>JCR2017</sub> =7.05 <a href="https://doi.org/10.1109/TIE.2015.2399274">https://doi.org/10.1109/TIE.2015.2399274</a>	166
10	<b>I. Serban</b> , C.P. Ion, "Microgrid Control Based on a Grid-Forming Inverter Operating as Virtual Synchronous Generator with Enhanced Dynamic Response Capability", International Journal of Electrical Power and Energy Systems, vol. 89, July 2017, pp. 94-105. WOS:000397072900010. FI <sub>JCR2017</sub> =3.61 <a href="https://doi.org/10.1016/j.ijepes.2017.01.009">https://doi.org/10.1016/j.ijepes.2017.01.009</a>	48.6
11	<b>I. Serban</b> , "A control strategy for microgrids: Seamless transfer based on a leading inverter with supercapacitor energy storage system", Applied Energy, vol. 221, July 2018, pp. 490-507. WOS:000433269000039. FI <sub>JCR2017</sub> =7.9 <a href="https://doi.org/10.1016/j.apenergy.2018.03.122">https://doi.org/10.1016/j.apenergy.2018.03.122</a>	183
12	<b>I. Serban</b> , "Active Load Control for dynamic frequency support and harmonic compensation in autonomous microgrids", ASCE's Journal of Energy Engineering, vol. 144, no.2, Apr. 2018. WOS:000425610500007. FI <sub>JCR2017</sub> =1.346 <a href="https://doi.org/10.1061/(ASCE)EY.1943-7897.0000518">https://doi.org/10.1061/(ASCE)EY.1943-7897.0000518</a>	51.92
13	D. Munteanu, <b>I. Serban</b> , L. Barote, C. Marinescu, "Dynamic performance analysis of a photovoltaic power plant with integrated storage for microgrids dynamic support", ASCE's Journal of Energy Engineering, vol. 144, no. 1, Feb. 2018. WOS:000418401900011. FI <sub>JCR2017</sub> =1.346 <a href="https://doi.org/10.1061/(ASCE)EY.1943-7897.0000514">https://doi.org/10.1061/(ASCE)EY.1943-7897.0000514</a>	12.98
14	C. P. Ion, <b>I. Serban</b> , „Self-Excited Induction Generator Based Microgrid with Supercapacitor Energy Storage to Support the Start-up of Dynamic Loads”, Advances in Electrical and Computer Engineering , vol. 18, no. 2, 2018. WOS:000434245000007. FI <sub>JCR2017</sub> =0.699 <a href="https://doi.org/10.4316/AECE.2018.02007">https://doi.org/10.4316/AECE.2018.02007</a>	19.49
	<b>Volume proceedings indexate WOS Thomson-Reuters</b>	
15	<b>I. Serban</b> , C. Ion, C. Marinescu, M.N. Cirstea, „Electronic Load Controller for Stand-Alone Generating Units with Renewable Energy Sources”, Proceedings of the 32 <sup>nd</sup> annual conference of the IEEE Industrial Electronics Society – IECON 06, Paris, France, 6-10 Nov. 2006, pp. 4309-4312. WOS:000245905006075. <a href="https://doi.org/10.1109/IECON.2006.347688">https://doi.org/10.1109/IECON.2006.347688</a>	6.25
16	<b>I. Serban</b> , C. Marinescu, M.N. Cirstea, „Hybrid Power System based on Micro-Hydro and Wind Turbine Generation”, Proceedings of the 10th International Conference on Optimization of Electrical and Electronic Equipments-OPTIM'06, vol. 2, Brasov, Romania, 18-19 May, 2006, pp. 267-274. WOS:000256418400043.	8.33

17	<b>I. Serban</b> , C.P. Ion, C. Marinescu, M. Georgescu, „Frequency Control and Unbalances Compensation in Autonomous Micro-Grids Supplied by RES”, Proceedings of the IEEE International Electric Machines and Drives Conference, 3-5 May 2007, Antalya-Turkey, pp. 459-464. WOS:000248118800080. <a href="https://doi.org/10.1109/IEMDC.2007.382711">https://doi.org/10.1109/IEMDC.2007.382711</a>	6.25
18	C.P. Ion, <b>I. Serban</b> , D. Marinescu, „Operation of an Induction Generator Controlled by a VSI Circuit”, Proceedings of the IEEE Symposium on Industrial Electronics (ISIE), 4-7 June 2007, Vigo, Spain, pp. 2661-2666. WOS:000252265106011 <a href="https://doi.org/10.1109/ISIE.2007.4375028">https://doi.org/10.1109/ISIE.2007.4375028</a>	8.33
19	<b>I. Serban</b> , C.P. Ion, C. Marinescu, „Frequency Control and Unbalances Compensation in Stand-Alone Fixed-Speed Wind Turbine Systems”, The 34th Annual Conference of the IEEE Industrial Electronics Society – IECON’08, 10 – 13 Nov., 2008, Florida, USA, pp. 2167-2172. WOS:000266229301126 <a href="https://doi.org/10.1109/IECON.2008.4758292">https://doi.org/10.1109/IECON.2008.4758292</a>	8.33
20	<b>I. Serban</b> , C. Marinescu, „A Solution for Frequency Control in Islanded Three-Phase Micro-Grids Supplied by Renewable Energy Sources”, 11th International Conference on Optimization of Electrical and Electronic Equipment OPTIM’08, May 22-24, 2008, Brasov, Romania, pp. 327-332. WOS:000258258700054 <a href="https://doi.org/10.1109/OPTIM.2008.4602428">https://doi.org/10.1109/OPTIM.2008.4602428</a>	12.5
21	C.P. Ion, <b>I. Serban</b> , C. Marinescu, „Single-Phase Operation of an Autonomous Three-Phase Induction Generator Using a VSI-DL Control System”, 11 <sup>th</sup> International Conference on Optimization of Electrical and Electronic Equipment OPTIM’08, May 22-24, 2008, Brasov, Romania, pp.333-338. WOS:000258258700055 <a href="https://doi.org/10.1109/OPTIM.2008.4602429">https://doi.org/10.1109/OPTIM.2008.4602429</a>	8.33
22	<b>I. Serban</b> , C. Marinescu, „A New Control Method for Power Quality Improvement in Island Microgrids”, 2008 IEEE International Symposium on Industrial Electronics – ISIE’08, 30 Jun-2 Jul, 2008, Cambridge, UK, pp. 2258-2263. WOS:000266702101066 <a href="https://doi.org/10.1109/ISIE.2008.4677280">https://doi.org/10.1109/ISIE.2008.4677280</a>	12.5
23	<b>I. Serban</b> , R. Teodorescu, J.M. Guerrero, C. Marinescu, „Modeling of an Autonomous Microgrid for Renewable Energy Sources Integration”, IECON: 2009 35th Annual Conference of IEEE Industrial Electronics, pp. 4311-4316. WOS:000280762001309 <a href="https://doi.org/10.1109/IECON.2009.5414923">https://doi.org/10.1109/IECON.2009.5414923</a>	6.25
24	<b>I. Serban</b> , C. Marinescu, „Active power decoupling circuit for a single-phase battery energy storage system dedicated to autonomous microgrids”, IEEE International Symposium on Industrial Electronics (ISIE 2010), Jul 04-07, 2010, Bari, Italy, pp. 2717-2722. WOS:000295007803079 <a href="https://doi.org/10.1109/ISIE.2010.5637040">https://doi.org/10.1109/ISIE.2010.5637040</a>	12.5

25	<b>I. Serban</b> , C. Marinescu, „A Look at the Role and Main Topologies of Battery Energy Storage Systems for Integration in Autonomous Microgrids”, 12th International Conference on Optimization of Electrical and Electronic Equipment-OPTIM, May 20-21, 2010, Brasov, Romania, pp. 1186-1191. WOS:000291967300177 <a href="https://doi.org/10.1109/OPTIM.2010.5510532">https://doi.org/10.1109/OPTIM.2010.5510532</a>	12.5
26	<b>I. Serban</b> , C. Marinescu, „Frequency Control Issues in Microgrids with Renewable Energy Sources”, 7th International Symposium on Advanced Topics in Electrical Engineering (ATEE), May 12-14, 2011, Bucharest, ROMANIA, pp. 229-234. WOS:000332038900026 <a href="http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&amp;arnumber=5952228">http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&amp;arnumber=5952228</a>	12.5
27	<b>I. Serban</b> , C. Marinescu, „Sensorless control for small wind turbines with permanent magnet synchronous generator”, 20 <sup>th</sup> IEEE International Symposium on Industrial Electronics (ISIE), Jun 27-30, 2011, Gdansk, Poland, pp. 1482 – 1487. WOS:000297160600236 <a href="https://doi.org/10.1109/ISIE.2011.5984379">https://doi.org/10.1109/ISIE.2011.5984379</a>	12.5
28	<b>I. Serban</b> , „A novel transistor-less power decoupling solution for single-phase inverters”, 39 <sup>th</sup> Annual Conference of the IEEE Industrial Electronics Society (IECON 2013), 10-13 Nov. 2013, Vienna, Austria, pp. 1496-1500. WOS:000331149501078 <a href="https://doi.org/10.1109/IECON.2013.6699354">https://doi.org/10.1109/IECON.2013.6699354</a>	25
29	I. M. Ducar, <b>I. Serban</b> , C. Marinescu, "A control method to provide dynamic support capability for small wind turbines connected in islanded microgrids", 2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), Brasov, 2017, pp. 543-548. WOS:000426909600082 <a href="https://doi.org/10.1109/OPTIM.2017.7975025">https://doi.org/10.1109/OPTIM.2017.7975025</a>	8.33
30	D. Munteanu, <b>I. Serban</b> , C. Marinescu, "Improving the dynamic response of PV systems in microgrids by using supercapacitors," 2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), Brasov, 2017, pp. 636-641. WOS:000426909600096 <a href="https://doi.org/10.1109/OPTIM.2017.7975040">https://doi.org/10.1109/OPTIM.2017.7975040</a>	8.33
31	C. P. Ion, <b>I. Serban</b> , "Improving the stability of SEIG based microgrids with predominance of dynamic loads by using supercapacitor-based storage," 2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), Brasov, 2017, pp. 648-653. WOS:000426909600098 <a href="https://doi.org/10.1109/OPTIM.2017.7975042">https://doi.org/10.1109/OPTIM.2017.7975042</a>	12.5
32	<b>I. Serban</b> , C. P. Ion, "Control strategy aiming at increasing the dynamic response capability of autonomous microgrids," 2017 IEEE 26th International Symposium on Industrial Electronics (ISIE), Edinburgh, 2017, pp. 663-669. WOS:000426794000104 <a href="https://doi.org/10.1109/ISIE.2017.8001325">https://doi.org/10.1109/ISIE.2017.8001325</a>	12.5

33	<b>I. Serban</b> , C. P. Ion, "Supporting the dynamic frequency response in microgrids by means of active loads," IECON 2016 - 42nd Annual Conference of the IEEE Industrial Electronics Society, Florence, 2016, pp. 3781-3786. WOS:000399031204009 <a href="https://doi.org/10.1109/IECON.2016.7793493">https://doi.org/10.1109/IECON.2016.7793493</a>	12.5
34	C. P. Ion, <b>I. Serban</b> , "Control of micro hydro based microgrid for dynamic transfer between islanded and grid-connected operation," IECON 2016 - 42nd Annual Conference of the IEEE Industrial Electronics Society, Florence, 2016, pp. 4054-4059. WOS:000399031204055 <a href="https://doi.org/10.1109/IECON.2016.7793250">https://doi.org/10.1109/IECON.2016.7793250</a>	12.5
35	D. Munteanu, C. Marinescu, <b>I. Serban</b> , L. Barote, "Control of PV inverter with energy storage capacity to improve microgrid dynamic response," 2016 International Conference on Applied and Theoretical Electricity (ICATE), Craiova, 2016, pp. 1-5. WOS:000390767500051 <a href="https://doi.org/10.1109/ICATE.2016.7754651">https://doi.org/10.1109/ICATE.2016.7754651</a>	6.25
36	<b>I. Serban</b> , C. Marinescu and D. Munteanu, "Performance analysis of a SiC-based single-phase H-bridge inverter with active power decoupling," 2016 18th European Conference on Power Electronics and Applications (EPE'16 ECCE Europe), Karlsruhe, 2016, pp. 1-10. WOS:000386637300388 <a href="https://doi.org/10.1109/EPE.2016.7695639">https://doi.org/10.1109/EPE.2016.7695639</a>	8.33
37	A. Busca-Forcus, C. Marinescu, C. Busca, <b>I. Serban</b> and R. Teodorescu, "Induction motors most efficient operation points in pumped storage systems," 2015 Intl Aegean Conference on Electrical Machines & Power Electronics (ACEMP), 2015 Intl Conference on Optimization of Electrical & Electronic Equipment (OPTIM) & 2015 Intl Symposium on Advanced Electromechanical Motion Systems (ELECTROMOTION), Side, 2015, pp. 669-674. WOS:000382957000103 <a href="https://doi.org/10.1109/OPTIM.2015.7426752">https://doi.org/10.1109/OPTIM.2015.7426752</a>	5
38	<b>I. Serban</b> , C. Marinescu, A. Busca-Forcus, "Single-phase voltage source converter with active power decoupling operating in both grid-connected and island modes," 2015 IEEE 6th International Symposium on Power Electronics for Distributed Generation Systems (PEDG), Aachen, 2015, pp. 1-6. WOS:000380443200046 <a href="https://doi.org/10.1109/PEDG.2015.7223050">https://doi.org/10.1109/PEDG.2015.7223050</a>	8.33
39	<b>I. Serban</b> , "Frequency restoration in microgrids by means of distributed control with minimum communication requirements," 2014 IEEE 23rd International Symposium on Industrial Electronics (ISIE), Istanbul, 2014, pp. 2590-2595. WOS:000346705600420 <a href="https://doi.org/10.1109/ISIE.2014.6865028">https://doi.org/10.1109/ISIE.2014.6865028</a>	25
40	<b>I. Serban</b> , C. Marinescu, "An enhanced three-phase battery energy storage system for frequency control in microgrids," 2012 13th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), Brasov, 2012, pp. 912-918. WOS:000398866700137 <a href="https://doi.org/10.1109/OPTIM.2012.6231960">https://doi.org/10.1109/OPTIM.2012.6231960</a>	12.5

	<b>Brevete de invenție indexate WOS-Derwent</b>	
<b>41</b>	<p><b>I. Șerban</b>, C. Marinescu, „Dispozitiv de reglare cu sarcină de balast trifazată pentru generatoare autonome cu surse de energie regenerabile”, brevet OSIM RO126355/30.01.2017. Derwent Primary Accession Number: 2011-G55807 <a href="http://pub.osim.ro/publication-server/document?iDocId=9187">http://pub.osim.ro/publication-server/document?iDocId=9187</a></p>	12.5
<b>42</b>	<p><b>I. Șerban</b>, „Metodă de compensare a armonicilor de curent cu sarcină activă”, <i>propunere brevet</i> OSIM, nr. cerere A/00881/27.10.2017. <a href="http://pub.osim.ro/publication-server/document?iDocId=10793">http://pub.osim.ro/publication-server/document?iDocId=10793</a></p>	0
<b>43</b>	<p><b>I. Șerban</b>, „Circuit și metodă de decuplare a puterii oscilante pentru invertoare monofazate”, <i>propunere brevet</i> OSIM, nr. RO130090/A0, nr. cerere A/00611/11.08.2014. <a href="http://pub.osim.ro/publication-server/document?iDocId=6523">http://pub.osim.ro/publication-server/document?iDocId=6523</a></p>	0
<b>44</b>	<p><b>I. Șerban</b>, C. Marinescu, „Metodă de reglare fără senzori a turației și a puterii generatoarelor eoliene cu magneți permanenți de mică putere”, <i>propunere brevet</i> OSIM RO127975/A0, nr. cerere A/00417/17.06.2012. <a href="http://pub.osim.ro/publication-server/document?iDocId=3356">http://pub.osim.ro/publication-server/document?iDocId=3356</a></p>	0
	<b>TOTAL 2.1 (30 ca prim autor, 14 reviste, 26 conferințe, 1 brevet acordat + 3 cereri de brevet depuse)</b>	<b>1127.71</b>

## 2.2 Articole în reviste și în volumele unor manifestări științifice indexate în alte baze de date internaționale (BDI)

Nr. crt.	Reviste/Volume BDI	Punctaj (20/nr.autori)
1	<p><b>I. Serban</b>, C. Marinescu, C.P. Ion, „A voltage-independent active load for frequency control in microgrids with renewable energy sources”, 10th International Conference on Environment and Electrical Engineering (EEEIC), 8-11 May 2011, pp. 1-4.  <b>BDI: IEEEExplore.</b>  <a href="https://doi.org/10.1109/EEEIC.2011.5874706">https://doi.org/10.1109/EEEIC.2011.5874706</a></p>	6.67
2	<p><b>I. Serban</b>, C. Marinescu, „A reduced model of permanent magnet synchronous generators for wind energy conversion systems”, IEEE International Conference on Computer as a Tool (EUROCON), 27-29 April 2011, Lisbon, Portugal, pp. 1-4.  <b>BDI: IEEEExplore.</b>  <a href="https://doi.org/10.1109/EUROCON.2011.5929262">https://doi.org/10.1109/EUROCON.2011.5929262</a></p>	10
3	<p>C. Marinescu, <b>I. Serban</b>, „Robust Frequency Control for a Wind/Hydro Autonomous Microgrid”, IEEE PowerTech, 19-23 June 2011, Trondheim, pp. 1-6.  <b>BDI: IEEEExplore.</b>  <a href="https://doi.org/10.1109/PTC.2011.6019248">https://doi.org/10.1109/PTC.2011.6019248</a></p>	10
4	<p><b>I. Serban</b>, C. Marinescu, „An enhanced three-phase battery energy storage system for frequency control in microgrids”, 13th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), 24-26 May 2012, Brasov, Romania, pp. 912 – 918.  <b>BDI: IEEEExplore.</b>  <a href="https://doi.org/10.1109/OPTIM.2012.6231960">https://doi.org/10.1109/OPTIM.2012.6231960</a></p>	10
5	<p><b>I. Serban</b>, R. Teodorescu, C. Marinescu, „Analysis and optimization of the battery energy storage systems for frequency control in autonomous microgrids, by means of hardware-in-the-loop simulations”, 3rd IEEE International Symposium on Power Electronics for Distributed Generation Systems (PEDG), 25-28 June 2012, Aalborg, Denmark, pp. 374 – 379.  <b>BDI: IEEEExplore.</b>  <a href="https://doi.org/10.1109/PEDG.2012.6254029">https://doi.org/10.1109/PEDG.2012.6254029</a></p>	6.67
6	<p><b>I. Serban</b>, C. Marinescu, „Modeling of an Autonomous Microgrid for Frequency Stability Analysis”, Bulletin of the Transilvania University of Brasov, Vol. 2 (51) - 2009 • Series I, pp. 331-340.  <b>BDI: EBSCO. Revista BDI</b>  <a href="http://webbut.unitbv.ro/BU2009/BULETIN2009/Series%20I/Contents_I_EEEA.html">http://webbut.unitbv.ro/BU2009/BULETIN2009/Series%20I/Contents_I_EEEA.html</a></p>	10
7	<p><b>I. Serban</b>, C. Marinescu, „Unbalance Compensation in Stand-Alone Microgrids”, Annals of the University of Craiova, Electrical Engineering Series, 2007, pp. 223-228. ISSN: 1842-4805  <b>BDI: Index Copernicus. Revista BDI</b>  <a href="http://elth.ucv.ro/fisiere/anale/2007/17.pdf">http://elth.ucv.ro/fisiere/anale/2007/17.pdf</a></p>	10
8	<p><b>I. Serban</b>, C. Marinescu, „Integration of battery energy storage systems in smart electrical microgrids”, Buletinul Institutului Politehnic din Iasi – Sectia Electrotehnica, Energetica, Electronica, Tomul LVI (LX), Fasc. 4, 2010, pp.127-136.  <b>BDI: Index Copernicus. Revista BDI</b>  <a href="http://www.bulipi-eee.tuiasi.ro/archive/2010/fasc.4/2010f4contents.pdf">http://www.bulipi-eee.tuiasi.ro/archive/2010/fasc.4/2010f4contents.pdf</a></p>	10

9	<p><b>I. Serban</b>, „Small Wind Turbine Control with Frequency Support for Integration in Microgrids”, Bulletin of the Transilvania University of Brasov - series I: Engineering Sciences, vol. 6 (55) No. 2 – 2013, pp. 89-96.</p> <p><b>BDI: EBSCO. Revista BDI</b>  <a href="http://webbut.unitbv.ro/BU2013/Series%20I/Contents_I_EEEA.html">http://webbut.unitbv.ro/BU2013/Series%20I/Contents_I_EEEA.html</a></p>	20
10	<p>C. Marinescu, <b>I. Serban</b>, „About the Main Frequency Control Issues in Microgrids with Renewable Energy Sources”, 2013 International Conference on Clean Electrical Power (ICCEP), 11-13 June 2013, Alghero, Italy, pp. 145-150.</p> <p><b>BDI: IEEEExplore.</b>  <a href="https://doi.org/10.1109/ICCEP.2013.6586981">https://doi.org/10.1109/ICCEP.2013.6586981</a></p>	10
11	<p>L. Barote, <b>I. Serban</b>, C. Marinescu, „Performance Comparison of LAB-VRB-PEMFC for a Wind Stand-Alone System”, Annals of the University of Craiova, Electrical Engineering Series, 2007, pp. 328-333 ISSN: 1842-4805</p> <p><b>BDI: Index Copernicus. Revista BDI</b>  <a href="http://elth.ucv.ro/fisiere/anale/2007/13.pdf">http://elth.ucv.ro/fisiere/anale/2007/13.pdf</a></p>	6.67
12	<p>L. Barote, <b>I. Serban</b>, C.P. Ion, C. Marinescu, M. Georgescu, <i>Two Generators Micro-Grid Based on RES</i>, Annals of the University of Craiova, Electrical Engineering series, vol. 30, 2006, pp. 250-253. ISSN: 1842-4805</p> <p><b>BDI: Index Copernicus. Revista BDI</b>  <a href="http://elth.ucv.ro/fisiere/anale/2006/4_12.pdf">http://elth.ucv.ro/fisiere/anale/2006/4_12.pdf</a></p>	4
13	<p>C.P. Ion, <b>I. Serban</b>, C. Marinescu, „A Single-Phase Dump Load for Stand-Alone Generating Units with Induction Generator”, Annals of the University of Craiova, Electrical Engineering series, vol. 30, 2006, pp. 233-236. ISSN: 1842-4805</p> <p><b>BDI: Index Copernicus. Revista BDI</b>  <a href="http://elth.ucv.ro/fisiere/anale/2006/4_8.pdf">http://elth.ucv.ro/fisiere/anale/2006/4_8.pdf</a></p>	6.67
14	<p><b>I. Serban</b>, C. Marinescu, "Flexible solution for grid-connected operation of microgrids, based on a leading inverter with supercapacitor energy storage," <i>2018 IEEE International Energy Conference (ENERGYCON)</i>, Limassol, 2018, pp. 1-6.</p> <p><b>BDI: IEEEExplore</b>  <a href="https://doi.org/10.1109/ENERGYCON.2018.8398776">https://doi.org/10.1109/ENERGYCON.2018.8398776</a></p>	10
15	<p><b>I. Serban</b>, "Harmonic compensation with active loads designed for power quality improvement in microgrids," <i>2018 International Conference on Development and Application Systems (DAS)</i>, Suceava, 2018, pp. 120-125.</p> <p><b>BDI: IEEEExplore</b>  <a href="https://doi.org/10.1109/DAAS.2018.8396083">https://doi.org/10.1109/DAAS.2018.8396083</a></p>	20
16	<p>V. Komasilovs, A. Zacepins, A. Kviešis, C. Marinescu, <b>I. Serban</b>, "Development of the Web platform for management of smart charging stations for electric vehicles", 4th International Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS), Special Session on Resilient Smart city Transportation, March, 16-18, 2018, Funchal, Madeira, Portugal.</p> <p><b>BDI: Scopus</b>  <a href="https://doi.org/10.5220/0006799205950599">https://doi.org/10.5220/0006799205950599</a></p>	4

17	C. Marinescu, <b>I. Serban</b> , „Analysis of frequency stability in a residential autonomous microgrid based on a wind turbine and a Microhydro power plant”, IEEE Power Electronics and Machines in Wind Applications, PEMWA, 24-26 June 2009, pp. 72-76. WOS:000274817100012 <b>BDI: IEEEExplore</b> <a href="https://doi.org/10.1109/PEMWA.2009.5208400">https://doi.org/10.1109/PEMWA.2009.5208400</a>	10
18	C. Marinescu, C. Ion, <b>I. Serban</b> , L. Clotea, D. Marinescu, „Controlling a stand-alone Power System”, International Symposium on Power Electronics, Electrical Drives, Automation and Motion – SPEEDAM 2006, CD Proceedings, 23-26 May 2006, Taormina – Italy, pp. S17-34 – S17-39. WOS:000245297200094. <b>BDI: IEEEExplore</b> <a href="https://doi.org/10.1109/SPEEDAM.2006.1649828">https://doi.org/10.1109/SPEEDAM.2006.1649828</a>	4
19	C. Marinescu, L. Clotea, M.N. Cirstea, <b>I. Serban</b> , C.P. Ion, „Controlling Variable Load Stand-Alone Hydrogenerators”, Proceedings of the Annual Conference of the IEEE Industrial Electronics Society, Raleigh – IECON05, North Carolina, USA, 6-10 November 2005, pp. 2554-2559. WOS:000236873602133. <b>BDI: IEEEExplore</b> <a href="https://doi.org/10.1109/IECON.2005.1569308">https://doi.org/10.1109/IECON.2005.1569308</a>	4
20	I. Ducar, C. Marinescu, <b>I. Serban</b> , "Modified MPPT control for small wind turbines to provide dynamic frequency support in islanded microgrids," 2017 6th International Conference on Clean Electrical Power (ICCEP), Santa Margherita Ligure, 2017, pp. 298-303. WOS:000426815100049 <b>BDI: IEEEExplore</b> <a href="https://doi.org/10.1109/ICCEP.2017.8004831">https://doi.org/10.1109/ICCEP.2017.8004831</a>	6.67
	<b>TOTAL 2.2 (7 reviste, 13 conferințe)</b>	<b>179.35</b>

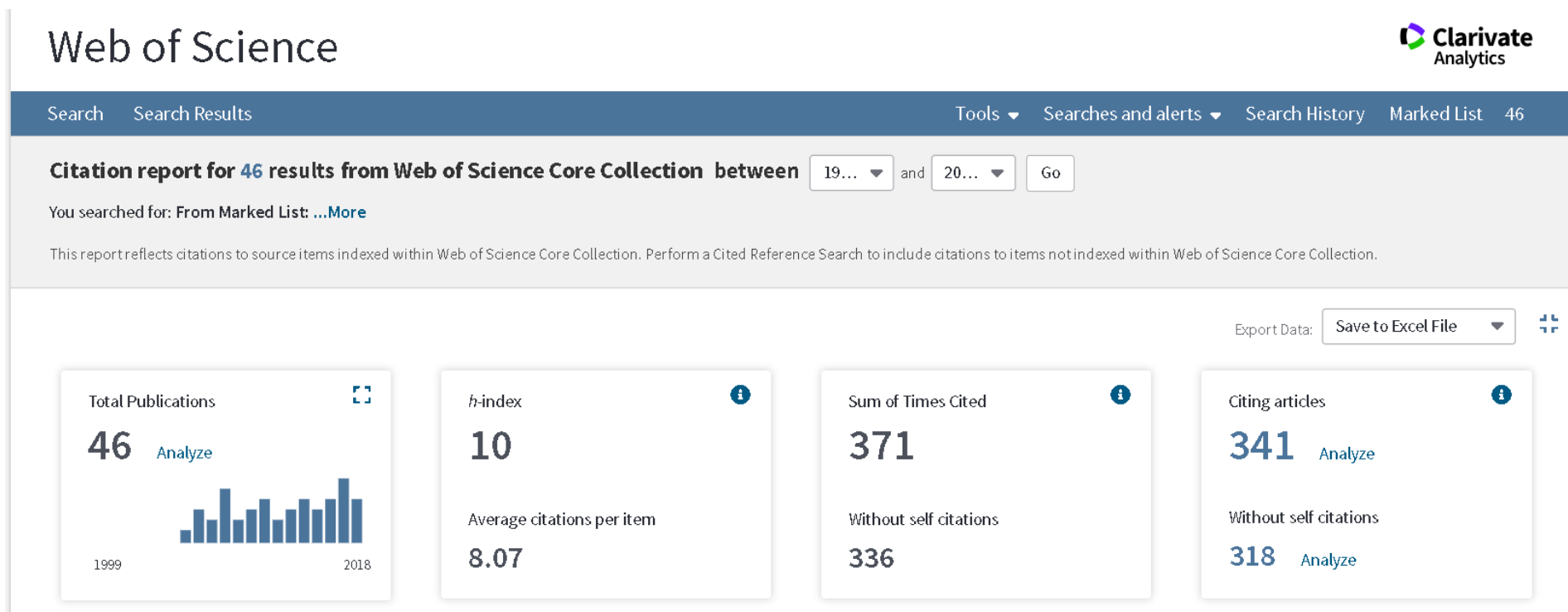


## 2.4 Granturi/proiecte câștigate prin competiție națională/internațională

Nr. crt.	2.4.1.2 Director/ responsabil proiect partener - naționale	Punctaj (10*ani de desfășurare)
1	Director al proiectului: „Contributii la Dezvoltarea Sistemelor Hibrade cu Surse de Energie Regenerabile”, CNCSIS TD303/2007. <b>Perioada de desfășurare: 2 ani.</b>	20
2	Director al proiectului: „Soluții de îmbunătățire a stabilității dinamice în micronețele electrice cu surse de energie regenerabilă”, PN-II-RU-TE-2014-4-0359, 2015-2017. <b>Perioada de desfășurare: 2 ani.</b>	20
<b>TOTAL 2.4.1.2 (2 proiecte câștigate prin competiție națională)</b>		<b>40</b>
<b>2.4.2.1. Membru în echipă - internaționale</b>		<b>Punctaj (4*ani de desfășurare)</b>
1	„Control of renewable integrated systems targeting advanced landmarks (CRISTAL)”, FP6-SUSTDEV 038426, 2007-2009. <b>Perioada de desfășurare: 2 ani.</b>	8
2	„Enabling RESilient urban TRANsportation systems in smart CiTies (RETRACT)”, ERANet-LAC Transnational Joint Call on Research and Innovation ELAC2015/T10-0761, 2017-2019. <b>Perioada de desfășurare: 3 ani.</b>	12
3	„Sustainable Mountain huts in Europe – SUSTAINHUTS”, LIFE 15 CCA/ES/000058, 2016-2017. <b>Perioada de desfășurare: 2 ani.</b>	8
<b>TOTAL 2.4.2.1 (3 proiecte ca membru în echipă proiecte int.)</b>		<b>28</b>
<b>2.4.2.2. Membru în echipă – naționale</b>		<b>Punctaj (2*ani de desfășurare)</b>
1	„Surse regenerabile de energie electrica si conectarea lor in rețele hibride inteligente”, CNCSIS IDEI 134/2007. <b>Perioada de desfășurare: 3 ani.</b>	6
2	„Sistem inteligent distribuit pentru managementul resurselor tehnologice ale amenajărilor hidroenergetice (MAREA)”, CNMP parteneriate 11004/2007. <b>Perioada de desfășurare: 3 ani.</b>	6
3	„Sistem informatic suport pentru proiectarea, implementarea si controlul fermelor energetic hibride (E-FARM)”, CNMP parteneriate 22134/2008. <b>Perioada de desfășurare: 3 ani.</b>	6
4	„Structura energetica hibrida hidro-eoliana. Modelare si tuning pe statie pilot (HIDROEOL)”, CNMP parteneriate 21062/2007. <b>Perioada de desfășurare: 3 ani.</b>	6
<b>TOTAL 2.4.2.2 (4 proiecte ca membru în echipă proiecte naționale)</b>		<b>24</b>

## Recunoașterea și impactul activității (A3)

### 3.1 Citări în revistele WOS și volumele conferințelor WOS



3.1.1 Citări ISI-WOS (exclusiv autocitări)							Punctaj (5/nr.aut. ai art. citat)	
1	<b>I. Serban, C. Marinescu, „Control Strategy of Three-Phase Battery Energy Storage Systems for Frequency Support in Microgrids and with Uninterrupted Supply of Local Loads”, IEEE Transactions on Power Electronics, vol. 29, no. 9, Sept. 2014, pp. 5010-5020. WOS:000335959900055.</b> <b>Nr. autori: 2</b> <b>Nr. citari ISI: 81 (56 reviste + 25 conferinte)</b>						202.5	
	Nr	Autori	Titlu	Publicatie	Tip articol	An		WOS
	1	Narvaez, DI; dos Reis, MVG; Barros, TAD; Ruppert, E; Villalva, MG	Performance comparison of DC and AC controllers for a two-stage power converter in energy storage application	ELECTRIC POWER SYSTEMS RESEARCH	Article	2018		WOS:000444930800006
	2	Mousavi, SYM; Jalilian, A; Savaghebi, M; Guerrero, JM	Autonomous Control of Current- and Voltage-Controlled DG Interface Inverters for Reactive Power Sharing and Harmonics Compensation in Islanded Microgrids	IEEE TRANSACTIONS ON POWER ELECTRONICS	Article	2018		WOS:000442337500027
	3	Yang, PC; Xia, YH; Yu, M; Wei, W; Peng, YG	A Decentralized Coordination Control Method for Parallel Bidirectional Power Converters in a Hybrid AC-DC Microgrid	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	Article	2018		WOS:000428902200020
	4	Okedu, KE	Improving the dynamic performance of grid connected wind farm using new SMES switching technique	JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY	Article	2018		WOS:000443601600018
	5	Alsiraji, HA; Radwan, AAA; El-Shatshat, R	Modelling and analysis of a synchronous machine-emulated active intertying converter in hybrid AC/DC microgrids	IET GENERATION TRANSMISSION & DISTRIBUTION	Article	2018		WOS:000434679200005
	6	Rodriguez, P; Citro, C; Candela, JI; Rocabert, J; Luna, A	Flexible Grid Connection and Islanding of SPC-Based PV Power Converters	IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS	Article	2018		WOS:000433089200071

7	Xie, XR; Guo, YH; Wang, B; Dong, YP; Mou, LF; Xue, F	Improving AGC Performance of Coal-Fueled Thermal Generators Using Multi-MW Scale BESS: A Practical Application	IEEE TRANSACTIONS ON SMART GRID	Article	2018	WOS:000430715400022
8	Liang, L; Hou, YH; Hill, DJ; Hui, SYR	Enhancing Resilience of Microgrids With Electric Springs	IEEE TRANSACTIONS ON SMART GRID	Article	2018	WOS:000430715400063
9	Dou, XB; Jiao, Y; Yang, K; Wu, ZJ; Gu, W; Li, HJ; Tang, XC	An optimal grid current control strategy with grid voltage observer (GVO) for LCL-filtered grid-connected inverters	IEEE TRANSACTIONS ON ELECTRICAL AND ELECTRONIC ENGINEERING	Article	2018	WOS:000428997300015
10	Yan, XW; Zhang, XY; Zhang, B; Ma, YJ; Wu, M	Research on Distributed PV Storage Virtual Synchronous Generator System and Its Static Frequency Characteristic Analysis	APPLIED SCIENCES-BASEL	Article	2018	WOS:000434996400059
11	Kewat, S; Singh, B; Hussain, I	Power management in PV-battery-hydro based standalone microgrid	IET RENEWABLE POWER GENERATION	Article	2018	WOS:000427157100001
12	Seo, HC; Rhee, SB	Reclosing scheme using synchronism checking for utilization of BESS in distribution system	JOURNAL OF MODERN POWER SYSTEMS AND CLEAN ENERGY	Article	2018	WOS:000427759400015
13	Zhang, C; Wei, YL; Cao, PF; Lin, MC	Energy storage system: Current studies on batteries and power condition system	RENEWABLE & SUSTAINABLE ENERGY REVIEWS	Review	2018	WOS:000418574800079
14	Chen, JL; Sha, DS; Yan, Y; Liu, B; Liao, XZ	Cascaded High Voltage Conversion Ratio Bidirectional Nonisolated DC-DC Converter With Variable Switching Frequency	IEEE TRANSACTIONS ON POWER ELECTRONICS	Article	2018	WOS:000414414600048
15	Boles, JD; Ma, YW; Tolbert, LM; Wang, F	Frequency Support Comparison for Vanadium and Lithium-ion BESSs Using a Converter-based Grid Emulator	THIRTY-THIRD ANNUAL IEEE APPLIED POWER ELECTRONICS CONFERENCE AND EXPOSITION (APEC 2018)	Proceedings Paper	2018	WOS:000434981900097
16	Akram, U; Khalid, M	A Coordinated Frequency Regulation Framework Based on Hybrid Battery-Ultracapacitor Energy Storage Technologies	IEEE ACCESS	Article	2018	WOS:000427290200001

17	Ameli, H; Abbasi, E; Ameli, MT; Strbac, G	A fuzzy-logic-based control methodology for secure operation of a microgrid in interconnected and isolated modes	INTERNATIONAL TRANSACTIONS ON ELECTRICAL ENERGY SYSTEMS	Article	2017	WOS:000416238700004
18	Soni, N; Doolla, S; Chandorkar, MC	Analysis of Frequency Transients in Isolated Microgrids	IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS	Article	2017	WOS:000416214600083
19	Hemmati, R; Azizi, N	Advanced control strategy on battery storage system for energy management and bidirectional power control in electrical networks	ENERGY	Article	2017	WOS:000415769300043
20	Hemmati, R; Azizi, N	Optimal control strategy on battery storage systems for decoupled active-reactive power control and damping oscillations	JOURNAL OF ENERGY STORAGE	Article	2017	WOS:000417183300003
21	Husein, M; Hau, VB; Chung, IY; Chae, WK; Lee, HJ	Design and Dynamic Performance Analysis of a Stand-alone Microgrid - A Case Study of Gasa Island, South Korea	JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY	Article	2017	WOS:000417377700009
22	Aravind, CK; Rani, BI; Manickam, C; Guerrero, JM; Ganesan, SI; Nagamani, C	Performance Evaluation of Type-3 PLLs Under Wide Variation in Input Voltage and Frequency	IEEE JOURNAL OF EMERGING AND SELECTED TOPICS IN POWER ELECTRONICS	Article	2017	WOS:000406643200005
23	Li, JW; Xiong, R; Yang, QQ; Liang, F; Zhang, M; Yuan, WJ	Design/test of a hybrid energy storage system for primary frequency control using a dynamic droop method in an isolated microgrid power system	APPLIED ENERGY	Article	2017	WOS:000403416300020
24	Seo, HC	New adaptive reclosing technique using second-order difference of THD in distribution system with BESS used as uninterruptible power supply	INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS	Article	2017	WOS:000400037100028
25	Mehmood, KK; Khan, SU; Lee, SJ; Haider, ZM; Rafique, MK; Kim, CH	Optimal sizing and allocation of battery energy storage systems with wind and solar power DGs in a distribution network for voltage regulation considering the lifespan of batteries	IET RENEWABLE POWER GENERATION	Article	2017	WOS:000411405400013

26	Karimi, Y; Oraee, H; Guerrero, JM	Decentralized Method for Load Sharing and Power Management in a Hybrid Single/Three-Phase-Islanded Microgrid Consisting of Hybrid Source PV/Battery Units	IEEE TRANSACTIONS ON POWER ELECTRONICS	Article	2017	WOS:000398952000025
27	Wang, Y; Yu, M; Li, YG	Self-adaptive inertia control of DC microgrid based on fast predictive converter regulation	IET RENEWABLE POWER GENERATION	Article	2017	WOS:000405797600025
28	Salim, NB; Aboelsoud, H; Tsuji, T; Oyama, T; Uchida, K	Load Frequency Control of Two-Area Network using Renewable Energy Resources and Battery Energy Storage System	JOURNAL OF ELECTRICAL SYSTEMS	Article	2017	WOS:000410494600011
29	Gao, N; Sang, S; Li, R; Cai, X	An Improved Control Method for Power Conversion System under a Weak Grid by the Adoption of Virtual Resistors	JOURNAL OF POWER ELECTRONICS	Article	2017	WOS:000401683400018
30	Karimi, Y; Oraee, H; Golsorkhi, MS; Guerrero, JM	Decentralized Method for Load Sharing and Power Management in a PV/Battery Hybrid Source Islanded Microgrid	IEEE TRANSACTIONS ON POWER ELECTRONICS	Article	2017	WOS:000395543400022
31	Hosseinimehr, T; Ghosh, A; Shahnia, F	Cooperative control of battery energy storage systems in microgrids	INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS	Article	2017	WOS:000392788800010
32	Seo, HC	New Configuration and Novel Reclosing Procedure of Distribution System for Utilization of BESS as UPS in Smart Grid	SUSTAINABILITY	Article	2017	WOS:000402090300030
33	Korada, N; Mishra, MK	Grid Adaptive Power Management Strategy for an Integrated Microgrid With Hybrid Energy Storage	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	Article	2017	WOS:000397770200034
34	Golestan, S; Guerrero, JM; Vasquez, JC	Three-Phase PLLs: A Review of Recent Advances	IEEE TRANSACTIONS ON POWER ELECTRONICS	Article	2017	WOS:000390674700020
35	Navarro-Rodriguez, A; Garcia, P; Georgious, R; Garcia, J	Adaptive Active Power Sharing Techniques for DC and AC Voltage Control in a Hybrid DC/AC Microgrid	2017 IEEE ENERGY CONVERSION CONGRESS AND EXPOSITION (ECCE)	Proceedings Paper	2017	WOS:000426847400005

36	Alsiraji, HA; ElShatshat, R; Radwan, AA	A Novel Control Strategy for the Interlinking Converter in Hybrid Microgrid	2017 IEEE POWER & ENERGY SOCIETY GENERAL MEETING	Proceedings Paper	2017	WOS:000426921801145
37	Kumar, M; Kulkarni, OV; Vijay, AS; Doolla, S	Investigation of Induction Motor Support in weak Microgrids using Virtual Synchronous Generator	2017 NATIONAL POWER ELECTRONICS CONFERENCE (NPEC)	Proceedings Paper	2017	WOS:000428735000037
38	Alves, MG; Melo, GA; Canesin, CA; de Brito, MAG	Photovoltaic DG with Accumulation, Active and Reactive Power Control for Grid-Connected and Intentional Islanding Operations	IECON 2017 - 43RD ANNUAL CONFERENCE OF THE IEEE INDUSTRIAL ELECTRONICS SOCIETY	Proceedings Paper	2017	WOS:000427164802102
39	Alves, MG; de Brito, MAG; Melo, GA; Canesin, CA	PHOTOVOLTAIC DG WITH ACCUMULATION, ACTIVE AND REACTIVE POWER CONTROL FOR GRID-CONNECTED AND INTENTIONAL ISLANDING OPERATIONS	2017 XIV BRAZILIAN POWER ELECTRONICS CONFERENCE (COBEP)	Proceedings Paper	2017	WOS:000427956700191
40	Sebastian, R; Pena-Alzola, R; Quesada, J	SIMULATION OF A WIND DIESEL POWER SYSTEM WITH FLYWHEEL ENERGY STORAGE	2017 IEEE 26TH INTERNATIONAL SYMPOSIUM ON INDUSTRIAL ELECTRONICS (ISIE)	Proceedings Paper	2017	WOS:000426794000330
41	Sadhukhan, A; Ganguly, S; Gayen, PK	Reduction of Harmonics at Output of Three-Phase VSI Using PSO Based PWM Technique	2017 THIRD IEEE INTERNATIONAL CONFERENCE ON RESEARCH IN COMPUTATIONAL INTELLIGENCE AND COMMUNICATION NETWORKS (ICRCICN)	Proceedings Paper	2017	WOS:000426611300019
42	Shuvra, MA; Chowdhury, BH	Autonomous Control of Smart Inverters in Grid Connected and Islanded Mode	2017 IEEE POWER & ENERGY SOCIETY INNOVATIVE SMART GRID TECHNOLOGIES CONFERENCE (ISGT)	Proceedings Paper	2017	WOS:000417427900081

43	Esmaeili, M; Shayeghi, H; Nejad, HM; Younesi, A	Reinforcement learning based PID controller design for LFC in a microgrid	COMPEL-THE INTERNATIONAL JOURNAL FOR COMPUTATION AND MATHEMATICS IN ELECTRICAL AND ELECTRONIC ENGINEERING	Article	2017	WOS:000406715500028
44	Chen, JL; Sha, DS; Liao, XZ	Bidirectional High Voltage Conversion Ratio DC/DC Converter with Full ZVS Range	2017 THIRTY SECOND ANNUAL IEEE APPLIED POWER ELECTRONICS CONFERENCE AND EXPOSITION (APEC)	Proceedings Paper	2017	WOS:000403242800049
45	Boles, JD; Ma, YW; Cao, WC; Tolbert, LM; Wang, F	Battery Energy Storage Emulation in a Converter-Based Power System Emulator	2017 THIRTY SECOND ANNUAL IEEE APPLIED POWER ELECTRONICS CONFERENCE AND EXPOSITION (APEC)	Proceedings Paper	2017	WOS:000403242802075
46	Kayalvizhi, S; Kumar, DMV	Frequency Control of Micro Grid with Wind Perturbations using Levy Walks with Spider Monkey Optimization Algorithm	INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH	Article	2017	WOS:000398837200016
47	Stroe, DI; Knap, V; Swierczynski, M; Stroe, AI; Teodorescu, R	Operation of a Grid-Connected Lithium-Ion Battery Energy Storage System for Primary Frequency Regulation: A Battery Lifetime Perspective	IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS	Article	2017	WOS:000394674300045
48	Yang, YH; Zhou, KL; Blaabjerg, F	Frequency adaptability of harmonics controllers for grid-interfaced converters	INTERNATIONAL JOURNAL OF CONTROL	Article	2017	WOS:000392602100002
49	Ameli, H; Ameli, MT; Hosseinian, SH	Multi-stage Frequency Control of a Microgrid in the Presence of Renewable Energy Units	ELECTRIC POWER COMPONENTS AND SYSTEMS	Article	2017	WOS:000392397100004
50	Serban, E; Ordonez, M; Pondiche, C	Voltage and Frequency Grid Support Strategies Beyond Standards	IEEE TRANSACTIONS ON POWER ELECTRONICS	Article	2017	WOS:000388166200025
51	Mariam, L; Basu, M; Conlon, MF	Microgrid: Architecture, policy and future trends	RENEWABLE & SUSTAINABLE ENERGY REVIEWS	Review	2016	WOS:000381833200035



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53	Kim, KS; Lee, SH; Cha, WJ; Kwon, JM; Kwon, BH	Bidirectional Single Power-Conversion DC-AC Converter With Noncomplementary Active-Clamp Circuits	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	Article	2016	WOS:000384641300020
54	Lee, SJ; Kim, JH; Kim, CH; Kim, SK; Kim, ES; Kim, DU; Mehmood, KK; Khan, SU	Coordinated Control Algorithm for Distributed Battery Energy Storage Systems for Mitigating Voltage and Frequency Deviations	IEEE TRANSACTIONS ON SMART GRID	Article	2016	WOS:000374971000051
55	Pathak, G; Singh, B; Panigrahi, BK	Control of Wind-Diesel Microgrid Using Affine Projection-Like Algorithm	IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS	Article	2016	WOS:000373949100008
56	Tan, YJ; Meegahapola, L; Muttaqi, KM	A Suboptimal Power-Point-Tracking-Based Primary Frequency Response Strategy for DFIGs in Hybrid Remote Area Power Supply Systems	IEEE TRANSACTIONS ON ENERGY CONVERSION	Article	2016	WOS:000372024100009
57	Quan, XJ; Dou, XB; Wu, ZJ; Hu, MQ; Yuan, J	Harmonic voltage resonant compensation control of a three-phase inverter for battery energy storage systems applied in isolated microgrid	ELECTRIC POWER SYSTEMS RESEARCH	Article	2016	WOS:000367126900022
58	Quan, XJ; Dou, XB; Wu, ZJ; Hu, MQ	Self-synchronized Voltage Control Algorithm for Microgrid Inverter	2016 IEEE POWER AND ENERGY SOCIETY GENERAL MEETING (PESGM)	Proceedings Paper	2016	WOS:000399937902028
59	Soni, N; Doolla, S; Chandorkar, MC	Analysis of Frequency Transients in Isolated Microgrids	2016 52ND ANNUAL MEETING OF THE IEEE INDUSTRY APPLICATIONS SOCIETY (IAS)	Proceedings Paper	2016	WOS:000392509200070
60	Alexandre, RA; Pinto, SF; Santana, JJ	Energy Storage System for Grid Connection and Island Operation	IEEE SECOND INTERNATIONAL SMART CITIES CONFERENCE (ISC2 2016)	Proceedings Paper	2016	WOS:000392263700007

61	Beiranvand, A; Aghdam, MM; Li, L; Zhu, SZ; Zheng, JH	Finding the Optimal Place and Size of an Energy Storage System for the Daily Operation of Microgrids Considering Both Operation Modes Simultaneously	2016 IEEE INTERNATIONAL CONFERENCE ON POWER SYSTEM TECHNOLOGY (POWERCON)	Proceedings Paper	2016	WOS:000390264300033
62	Oureilidis, KO; Bakirtzis, EA; Demoulias, CS	Frequency-based control of islanded microgrid with renewable energy sources and energy storage	JOURNAL OF MODERN POWER SYSTEMS AND CLEAN ENERGY	Article	2016	WOS:000374333900007
63	Kim, YS; Kim, ES; Moon, SI	Frequency and Voltage Control Strategy of Standalone Microgrids With High Penetration of Intermittent Renewable Generation Systems	IEEE TRANSACTIONS ON POWER SYSTEMS	Article	2016	WOS:000367298100070
64	Chen, SX; Zhang, T; Gooi, HB; Masiello, RD; Katzenstein, W	Penetration Rate and Effectiveness Studies of Aggregated BESS for Frequency Regulation	IEEE TRANSACTIONS ON SMART GRID	Article	2016	WOS:000367299800018
65	Golestan, S; Guerrero, JM	An Analysis of Modified Demodulation-Based Grid Voltage Parameter Estimator	IEEE TRANSACTIONS ON POWER ELECTRONICS	Article	2015	WOS:000360654500012
66	Uriarte, FM; Smith, C; VanBroekhoven, S; Hebner, RE	Microgrid Ramp Rates and the Inertial Stability Margin	IEEE TRANSACTIONS ON POWER SYSTEMS	Article	2015	WOS:000359371600038
67	Setiawan, MA; Shahnia, F; Rajakaruna, S; Ghosh, A	ZigBee-Based Communication System for Data Transfer Within Future Microgrids	IEEE TRANSACTIONS ON SMART GRID	Article	2015	WOS:000360435900017
68	Yang, YH; Enjeti, P; Blaabjerg, F; Wang, H	WIDE-SCALE ADOPTION OF PHOTOVOLTAIC ENERGY Grid code modifications are explored in the distribution grid	IEEE INDUSTRY APPLICATIONS MAGAZINE	Article	2015	WOS:000359595200006
69	Dou, XB; Yang, K; Quan, XJ; Hu, QR; Wu, ZJ; Zhao, B; Li, P; Zhang, SZ; Jiao, Y	An Optimal PR Control Strategy with Load Current Observer for a Three- Phase Voltage Source Inverter	ENERGIES	Article	2015	WOS:000360586600002
70	Aravind, CK; Ilango, GS; Nagamani, C; Reddy, MJB	A Control Strategy for Hybrid Autonomous Power System with a Battery Management Scheme	ELECTRIC POWER COMPONENTS AND SYSTEMS	Article	2015	WOS:000354176600030

71	Nguyen, TT; Yoo, HJ; Kim, HM	A Flywheel Energy Storage System Based on a Doubly Fed Induction Machine and Battery for Microgrid Control	ENERGIES	Article	2015	WOS:000357489700022
72	Nikhil, K; Mishra, MK	Application of Hybrid Energy Storage System in a Grid Interactive Microgrid Environment	IECON 2015 - 41ST ANNUAL CONFERENCE OF THE IEEE INDUSTRIAL ELECTRONICS SOCIETY	Proceedings Paper	2015	WOS:000382950703006
73	Coelho, RF; Schmitz, L; Martins, DC	PROPOSAL OF A POWER FLOW CONTROL STRATEGY APPLIED TO A HYBRID MICROGRID	2015 IEEE 13TH BRAZILIAN POWER ELECTRONICS CONFERENCE AND 1ST SOUTHERN POWER ELECTRONICS CONFERENCE (COBEP/SPEC)	Proceedings Paper	2015	WOS:000380408300210
74	Rodriguez, P; Citro, C; Candela, I; Rocabet, J; Luna, A	Flexible Grid Connection and Islanding of SPC-based PV Power Converters	2015 IEEE ENERGY CONVERSION CONGRESS AND EXPOSITION (ECCE)	Proceedings Paper	2015	WOS:000378882900063
75	Navarro-Rodriguez, A; Garcia, P; Georgious, R; Garcia, J	A Communication-less Solution for Transient Frequency Drift Compensation on Weak Microgrids using a D-Statcom with an Energy Storage System	2015 IEEE ENERGY CONVERSION CONGRESS AND EXPOSITION (ECCE)	Proceedings Paper	2015	WOS:000378882907035
76	Rahman, SA; Maleki, H; Mohan, S; Varma, RK; Litzenberger, WH	Bibliography of FACTS 2013-2014: IEEE Working Group Report	2015 IEEE POWER & ENERGY SOCIETY GENERAL MEETING	Proceedings Paper	2015	WOS:000371397504103
77	Varajao, D; Miranda, LM; Araujo, RE	Towards a new technological solution for Community Energy Storage	2014 16TH EUROPEAN CONFERENCE ON POWER ELECTRONICS AND APPLICATIONS (EPE'14-ECCE EUROPE)	Proceedings Paper	2014	WOS:000361460005023
78	Setiawan, MA; Shahnia, F; Ghosh, A; Rajakaruna, S	Developing the ZigBee Based Data Payload Coding for Data Communication in Microgrids	2014 Australasian Universities Power Engineering Conference (AUPEC)	Proceedings Paper	2014	WOS:000392752500045
79	Jha, IS; Sen, S; Tiwari, M; Singh, MK	Control Strategy for Frequency Regulation using Battery Energy Storage with Optimal Utilization	2014 IEEE 6th India International Conference on Power Electronics (IICPE)	Proceedings Paper	2014	WOS:000392745300064

	80	Gavriluta, C; Candela, I; Rocabert, J; Etxeberria-Otadui, I; Rodriguez, P	Storage system requirements for grid supporting PV-power plants	2014 IEEE ENERGY CONVERSION CONGRESS AND EXPOSITION (ECCE)	Proceedings Paper	2014	WOS:000411444300746	
	81	Setiawan, MA; Shahnia, F; Chandrasena, RPS; Ghosh, A	Data Communication Network and its Delay Effect on the Dynamic Operation of Distributed Generation Units in a Microgrid	2014 IEEE PES ASIA-PACIFIC POWER AND ENERGY ENGINEERING CONFERENCE (IEEE PES APPEEC)	Proceedings Paper	2014	WOS:000393456700228	
	<p><b>I. Serban</b>, "Power Decoupling Method for Single-Phase H-Bridge Inverters With No Additional Power Electronics," IEEE Transactions on Industrial Electronics, vol. 62, no. 8, pp. 4805-4813, Aug. 2015. WOS:000357268300015.</p> <p><b>Nr. autori: 1</b></p> <p><b>Nr. citari ISI: 42 ( 26 reviste + 16 conferinte)</b></p>							
<b>2</b>	<b>Nr</b>	<b>Autori</b>	<b>Titlu</b>	<b>Publicatie</b>	<b>Tip articol</b>	<b>An</b>	<b>WOS</b>	<b>210</b>
	1	Mozaffari, K; Amirabadi, M; Deshpande, Y	A Single-Phase Inverter/Rectifier Topology With Suppressed Double-Frequency Ripple	IEEE TRANSACTIONS ON POWER ELECTRONICS	Article	2018	WOS:000442337500020	
	2	Komeda, S; Fujita, H	A Power Decoupling Control Method for an Isolated Single-Phase AC-to-DC Converter Based on Direct AC-to-AC Converter Topology	IEEE TRANSACTIONS ON POWER ELECTRONICS	Article	2018	WOS:000442337500052	
	3	Wang, QS; Deng, FJ; Cheng, M; Buja, G	The State of the Art of Topologies for Electric Springs	ENERGIES	Review	2018	WOS:000441830500108	
	4	Mellincovsky, M; Yuhimenko, V; Peretz, MM; Kuperman, A	Analysis and Control of Direct Voltage Regulated Active DC-Link Capacitance Reduction Circuit	IEEE TRANSACTIONS ON POWER ELECTRONICS	Article	2018	WOS:000428645100068	
	5	Liu, YL; Sun, Y; Su, M; Zhou, M; Zhu, Q; Li, X	A Single-Phase PFC Rectifier With Wide Output Voltage and Low-Frequency Ripple Power Decoupling	IEEE TRANSACTIONS ON POWER ELECTRONICS	Article	2018	WOS:000426014100043	
	6	Wang, MH; Mok, KT; Tan, SC; Hui, SY	Multifunctional DC Electric Springs for Improving Voltage Quality of DC Grids	IEEE TRANSACTIONS ON SMART GRID	Article	2018	WOS:000430715400064	
	7	Khan, A; Gastli, A; Ben-Brahim, L	Modeling and control for new LLCL filter based grid-tied PV inverters with active power decoupling and active resonance damping capabilities	ELECTRIC POWER SYSTEMS RESEARCH	Article	2018	WOS:000419410300031	

8	Al-Obaidi, SAS; Hodge, KC; Enjeti, P	A Dual-Phase Output 4-Leg Inverter with Active Decoupling and Integrated Power Optimizer for Off-Grid Applications	2018 9TH IEEE INTERNATIONAL SYMPOSIUM ON POWER ELECTRONICS FOR DISTRIBUTED GENERATION SYSTEMS (PEDG)	Proceedings Paper	2018	WOS:000444736500011
9	Xu, S; Shao, RM; Chang, LC	Single-Phase Voltage Source Inverter with Power Decoupling and Minimal Voltage Stress Modulation	2018 9TH IEEE INTERNATIONAL SYMPOSIUM ON POWER ELECTRONICS FOR DISTRIBUTED GENERATION SYSTEMS (PEDG)	Proceedings Paper	2018	WOS:000444736500017
10	Khan, A; Ben-Brahim, L; Gastli, A; Ai-Emadi, N	Electrolytic Capacitor-less Dual Buck Inverter with CM and DM Active Resonance Damping Control for Non-Isolated Grid-Connected PV Applications	PROCEEDINGS 2018 IEEE 12TH INTERNATIONAL CONFERENCE ON COMPATIBILITY, POWER ELECTRONICS AND POWER ENGINEERING (CPE-POWERENG 2018)	Proceedings Paper	2018	WOS:000443797900029
11	Khan, A; Blaabjerg, F	Novel Shunt-less Filters for Grid-Connected Transformerless Photovoltaic Applications	PROCEEDINGS 2018 IEEE 12TH INTERNATIONAL CONFERENCE ON COMPATIBILITY, POWER ELECTRONICS AND POWER ENGINEERING (CPE-POWERENG 2018)	Proceedings Paper	2018	WOS:000443797900119
12	Wai, RJ; Wang, Y	Power Decoupling Strategy for Single-Phase Grid-Connected Inverter Under Weak Power Grid	2018 3RD INTERNATIONAL CONFERENCE ON INTELLIGENT GREEN BUILDING AND SMART GRID (IGBSG 2018)	Proceedings Paper	2018	WOS:000437160600032
13	Roy, J; Xia, YL; Ayyanar, R	Performance Evaluation of Single-Phase Transformer-less PV Inverter Topologies	THIRTY-THIRD ANNUAL IEEE APPLIED POWER ELECTRONICS CONFERENCE AND EXPOSITION (APEC 2018)	Proceedings Paper	2018	WOS:000434981903067

14	Mellincovsky, M; Yuhimenko, V; Zhong, QC; Peretz, MM; Kuperman, A	Active DC Link Capacitance Reduction in Grid-Connected Power Conversion Systems by Direct Voltage Regulation	IEEE ACCESS	Article	2018	WOS:000430806400001
15	Sun, HZ; Wang, H; Han, GQ; Gan, JH	Control Method of a Single-Phase AC\DC Converter With Integrated Active Filter	JOURNAL OF ENGINEERING-JOE	Article	2017	WOS:000416266500027
16	Yao, WL; Loh, PC; Tang, Y; Wang, XF; Zhang, XB; Blaabjerg, F	A Robust DC-Split-Capacitor Power Decoupling Scheme for Single-Phase Converter	IEEE TRANSACTIONS ON POWER ELECTRONICS	Article	2017	WOS:000404365000018
17	Chen, DL; Jiang, JH; Qiu, YH; Zhang, J; Huang, FS	Single-Stage Three-Phase Current- Source Photovoltaic Grid-Connected Inverter High Voltage Transmission Ratio	IEEE TRANSACTIONS ON POWER ELECTRONICS	Article	2017	WOS:000401320000017
18	Zhang, HY; Li, X; Ge, BM; Balog, RS	Capacitance, dc Voltage Utilization, and Current Stress	IEEE INDUSTRIAL ELECTRONICS MAGAZINE	Article	2017	WOS:000411504900006
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23	Wang, HR; Wang, H	Reliability-oriented Design of a Cost-effective Active Capacitor	2017 IEEE 11TH INTERNATIONAL SYMPOSIUM ON DIAGNOSTICS FOR ELECTRICAL MACHINES, POWER ELECTRONICS AND DRIVES (SDEMPED)	Proceedings Paper	2017	WOS:000426938200090
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30	Lyu, XF; Ren, N; Li, YC; Cao, D	A SiC-Based High Power Density Single-Phase Inverter With In-Series and In-Parallel Power Decoupling Method	IEEE JOURNAL OF EMERGING AND SELECTED TOPICS IN POWER ELECTRONICS	Article	2016	WOS:000381441600021

31	Ge, BM; Liu, YS; Abu-Rub, H; Balog, RS; Peng, FZ; Sun, HX; Li, X	An Active Filter Method to Eliminate DC-Side Low-Frequency Power for a Single-Phase Quasi-Z-Source Inverter	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	Article	2016	WOS:000384641300018
32	Wang, WT; Ruan, XB	A Modified Reference of an Intermediate Bus Capacitor Voltage-Based Second-Harmonic Current Reduction Method for a Standalone Photovoltaic Power System	IEEE TRANSACTIONS ON POWER ELECTRONICS	Article	2016	WOS:000372370000019
33	Sun, Y; Liu, YL; Su, M; Li, X; Yang, J	Active Power Decoupling Method for Single-Phase Current-Source Rectifier With No Additional Active Switches	IEEE TRANSACTIONS ON POWER ELECTRONICS	Article	2016	WOS:000372370000026
34	Sun, Y; Liu, YL; Su, M; Xiong, WJ; Yang, J	Review of Active Power Decoupling Topologies in Single-Phase Systems	IEEE TRANSACTIONS ON POWER ELECTRONICS	Review	2016	WOS:000370528800010
35	Liu, YL; Sun, Y; Su, M	Active power compensation method for single-phase current source rectifier without extra active switches	IET POWER ELECTRONICS	Article	2016	WOS:000379619900018
36	Zhu, GR; Wang, HR; Liang, B; Tan, SC; Jiang, J	Enhanced Single-Phase Full-Bridge Inverter With Minimal Low-Frequency Current Ripple	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	Article	2016	WOS:000369990300025
37	Tang, Y; Yao, WL; Loh, PC; Blaabjerg, F	Highly Reliable Transformerless Photovoltaic Inverters With Leakage Current and Pulsating Power Elimination	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	Article	2016	WOS:000369990300033
38	Qi, WL; Li, SN; Siew-Chong-Tan; Hui, SY	A Two-Switch Buck-Boost PFC Rectifier With Automatic AC Power Decoupling Capability	2016 IEEE ENERGY CONVERSION CONGRESS AND EXPOSITION (ECCE)	Proceedings Paper	2016	WOS:000400778401016
39	Roy, J; Xia, YL; Ayyanar, R	A Single Phase Transformerless String Inverter with Large Voltage Swing of Half-Bridge Capacitors for Active Power Decoupling	2016 IEEE ENERGY CONVERSION CONGRESS AND EXPOSITION (ECCE)	Proceedings Paper	2016	WOS:000400778400138
40	Kumar, VVSP; Fernandes, BG	Transformerless Active Power Decoupling Topologies for Grid Connected PV Applications	PROCEEDINGS OF THE IECON 2016 - 42ND ANNUAL CONFERENCE OF THE IEEE INDUSTRIAL ELECTRONICS SOCIETY	Proceedings Paper	2016	WOS:000399031202115



	41	Wang, HR; Wang, H; Zhu, GR; Blaabjerg, F	Cost Assessment of Three Power Decoupling Methods in a Single-Phase Power Converter with a Reliability-Oriented Design Procedure	2016 IEEE 8TH INTERNATIONAL POWER ELECTRONICS AND MOTION CONTROL CONFERENCE (IPEMC-ECCE ASIA)	Proceedings Paper	2016	WOS:000390949703158	
	42	Morsy, AS; Bayern, M; Enjeti, P	High Power Density Single Phase Inverter Using GaN FETS and Active Power Decoupling for Google Little Box Challenge	WIPDA 2015 3RD IEEE WORKSHOP ON WIDE BANDGAP POWER DEVICES AND APPLICATIONS	Proceedings Paper	2015	WOS:000380466000063	
	<p><b>I. Serban</b>, C. Marinescu, „Battery energy storage system for frequency support in microgrids and with enhanced control features for uninterruptible supply of local loads”, International Journal of Electrical Power and Energy Systems, vol. 54, Jan. 2014, pp. 432-441. WOS:000325831600043.  <b>Nr. autori: 2</b>  <b>Nr. citari ISI: 36 (33 reviste + 3 conferinte)</b></p>							
<b>3</b>	<b>Nr.</b>	<b>Autori</b>	<b>Titlu</b>	<b>Publicatie</b>	<b>Tip articol</b>	<b>An</b>	<b>WOS</b>	<b>90</b>
	1	Fleer, J; Zurmuhlen, S; Meyer, J; Badedda, J; Stenzel, P; Hake, JF; Sauer, DU	Techno-economic evaluation of battery energy storage systems on the primary control reserve market under consideration of price trends and bidding strategies	JOURNAL OF ENERGY STORAGE	Article	2018	WOS:000432692900032	
	2	Nhung, NH; Huy, ND; Nakanishi, Y	Optimal Sizing of Energy Storage Devices in Isolated Wind-Diesel Systems Considering Load Growth Uncertainty	IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS	Article	2018	WOS:000433089200005	
	3	Son, DH; Ali, M; Kang, SH; Heo, JH; Nam, SR	A Method for Increasing the Operating Limit Capacity of Wind Farms Using Battery Energy Storage Systems with Rate of Change of Frequency	ENERGIES	Article	2018	WOS:000434703400069	
	4	Yahmadi, R; Brik, K; ben Ammar, F	Causal tree analysis for quality control of the lead acid battery manufacturing process	INTERNATIONAL JOURNAL OF ENERGY RESEARCH	Article	2018	WOS:000427120300027	
	5	Moradi, H; Esfahanian, M; Abtahi, A; Zilouchian, A	Optimization and energy management of a standalone hybrid microgrid in the presence of battery storage system	ENERGY	Article	2018	WOS:000429391100018	

6	Hong, YY; Lai, YZ; Chang, YR; Lee, YD; Lin, CH	Optimizing Energy Storage Capacity in Islanded Microgrids Using Immunity-Based Multiobjective Planning	ENERGIES	Article	2018	WOS:000428304300113
7	Annamraju, A; Nandiraju, S	Robust Frequency Control in an Autonomous Microgrid: A Two-Stage Adaptive Fuzzy Approach	ELECTRIC POWER COMPONENTS AND SYSTEMS	Article	2018	WOS:000428811500007
8	Wang, ZB; Li, CS; Lai, XJ; Zhang, N; Xu, YH; Hou, JJ	An Integrated Start-Up Method for Pumped Storage Units Based on a Novel Artificial Sheep Algorithm	ENERGIES	Article	2018	WOS:000424397600151
9	Shotorbani, AM; Ghassem-Zadeh, S; Mohammadi-Ivatloo, B; Hosseini, SH	A distributed secondary scheme with terminal sliding mode controller for energy storages in an islanded microgrid	INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS	Article	2017	WOS:000407526300031
10	Rana, R; Singh, M; Mishra, S	Design of Modified Droop Controller for Frequency Support in Microgrid Using Fleet of Electric Vehicles	IEEE TRANSACTIONS ON POWER SYSTEMS	Article	2017	WOS:000407854900028
11	Rahman, MS; Oo, AMT	Distributed multi-agent based coordinated power management and control strategy for microgrids with distributed energy resources	ENERGY CONVERSION AND MANAGEMENT	Article	2017	WOS:000397683900002
12	Kollimalla, SK; Ukil, A; Gooi, HB; Manandhar, U; Tummuru, NR	Optimization of Charge/Discharge Rates of a Battery Using a Two-Stage Rate-Limit Control	IEEE TRANSACTIONS ON SUSTAINABLE ENERGY	Article	2017	WOS:000398910000008
13	Kollimalla, SK; Mishra, MK; Ukil, A; Gooi, HB	DC Grid Voltage Regulation Using New HESS Control Strategy	IEEE TRANSACTIONS ON SUSTAINABLE ENERGY	Article	2017	WOS:000398910000032
14	Brik, K; Ben Ammar, F	Improved, performance and energy management strategy for proton exchange membrane fuel cell/backup battery in power electronic systems	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	Article	2017	WOS:000401385300028

15	Chua, KH; Lim, YS; Morris, S	A novel fuzzy control algorithm for reducing the peak demands using energy storage system	ENERGY	Article	2017	WOS:000399267100023
16	Ghaffarzadeh, N; Zolfaghari, M; Ardakani, FJ; Ardakani, AJ	Optimal Sizing of Energy Storage System in a Micro Grid Using the Mixed Integer Linear Programming	INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH	Article	2017	WOS:000423932000052
17	Kumar, A; Biswas, A	Techno-Economic Optimization of a Stand-alone PV/PHS/Battery Systems for very low load Situation	INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH	Article	2017	WOS:000404270700041
18	Antonucci, V; Branchini, L; Brunaccini, G; De Pascale, A; Ferraro, M; Melino, F; Orlandini, V; Sergi, F	Thermal integration of a SOFC power generator and a Na-NiCl <sub>2</sub> battery for CHP domestic application	APPLIED ENERGY	Article	2017	WOS:000390494800029
19	Kerdphol, T; Qudaih, Y; Mitani, Y	Optimum battery energy storage system using PSO considering dynamic demand response for microgrids	INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS	Article	2016	WOS:000380591500009
20	Mandelli, S; Brivio, C; Leonardi, M; Colombo, E; Molinas, M; Park, E; Merlo, M	The role of electrical energy storage in sub-Saharan Africa	JOURNAL OF ENERGY STORAGE	Article	2016	WOS:000391140500030
21	Fleer, J; Stenzel, P	Impact analysis of different operation strategies for battery energy storage systems providing primary control reserve	JOURNAL OF ENERGY STORAGE	Article	2016	WOS:000391140500033
22	Kerdphol, T; Fuji, K; Mitani, Y; Watanabe, M; Qudaih, Y	Optimization of a battery energy storage system using particle swarm optimization for stand-alone microgrids	INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS	Article	2016	WOS:000376544200004

23	Hemmati, R; Saboori, H	Short-term bulk energy storage system scheduling for load leveling in unit commitment: modeling, optimization, and sensitivity analysis	JOURNAL OF ADVANCED RESEARCH	Article	2016	WOS:000375844700004
24	Seneviratne, C; Ozansoy, C	Frequency response due to a large generator loss with the increasing penetration of wind/PV generation - A literature review	RENEWABLE & SUSTAINABLE ENERGY REVIEWS	Review	2016	WOS:000370456000049
25	Lin, SL; Song, WJ; Lv, J; Chen, YZ; Chen, MB; Feng, ZP	Development of Supervising System for Battery Energy Storage System Based on the Two-Level Architecture	2016 INTERNATIONAL CONFERENCE ON SMART GRID AND CLEAN ENERGY TECHNOLOGIES (ICSGCE)	Proceedings Paper	2016	WOS:000401529100010
26	Chua, KH; Lim, YS; Morris, S	Energy storage system for peak shaving	INTERNATIONAL JOURNAL OF ENERGY SECTOR MANAGEMENT	Article	2016	WOS:000389338400002
27	Obara, S	Control of cyclic fluctuations in an independent microgrid by an SOFC triple combined cycle inertia system	INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS	Article	2015	WOS:000349725600010
28	Ahmad, Z; Singh, SN	DROOP Control strategies of Conventional Power System Versus Microgrid Based Power Systems -A Review	2015 INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE AND COMMUNICATION NETWORKS (CICN)	Proceedings Paper	2015	WOS:000387128200306
29	Ma, T; Yang, HX; Lu, L; Peng, JQ	Pumped storage-based standalone photovoltaic power generation system: Modeling and techno-economic optimization	APPLIED ENERGY	Article	2015	WOS:000348006700059
30	Giraldo, J; Mojica-Nava, E; Quijano, N	Synchronization of isolated microgrids with a communication infrastructure using energy storage systems	INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS	Article	2014	WOS:000341336700008
31	Taher, SA; Zolfaghari, M	Designing robust controller to improve current-sharing for parallel-connected inverter-based DGs considering line impedance impact in microgrid networks	INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS	Article	2014	WOS:000341336700067

	32	Jiang, TX; Putrus, G; Gao, ZW; Conti, M; McDonald, S; Lacey, G	Development of a decentralized smart charge controller for electric vehicles	INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS	Article	2014	WOS:000337855600039	
	33	Escudero- Gonzalez, J; Lopez- Jimenez, PA	Iron redox battery as electrical energy storage system in the Spanish energetic framework	INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS	Article	2014	WOS:000337855600045	
	34	Ma, T; Yang, HX; Lu, L	Feasibility study and economic analysis of pumped hydro storage and battery storage for a renewable energy powered island	ENERGY CONVERSION AND MANAGEMENT	Article	2014	WOS:000333946700040	
	35	Majumder, R; Bag, G	Parallel operation of converter interfaced multiple microgrids	INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS	Article	2014	WOS:000329333100049	
	36	Ma, YW; Yang, P; Wang, YW; Zhou, SX; He, P	Frequency Control of Islanded Microgrid Based on Wind-PV-Diesel-Battery Hybrid Energy Sources	2014 17TH INTERNATIONAL CONFERENCE ON ELECTRICAL MACHINES AND SYSTEMS (ICEMS)	Proceedings Paper	2014	WOS:000382946500056	
	<p><b>I. Serban, R. Teodorescu, C. Marinescu, „Energy Storage Systems Impact on the Short-Term Frequency Stability of Distributed Autonomous Microgrids, an Analysis Using Aggregate Models”, IET Renewable Power Generation, vol 7, no. 5, Sept. 2013, pp. 531-539. WOS:000323560600012.</b></p> <p><b>Nr. autori: 3</b></p> <p><b>Nr. citari ISI: 22 (11 reviste + 11 conferinte)</b></p>							
<b>4</b>	<b>Nr</b>	<b>Autori</b>	<b>Titlu</b>	<b>Publicatie</b>	<b>Tip articol</b>	<b>An</b>	<b>WOS</b>	<b>36.67</b>
	1	Jayamaha, C; Costabeber, A; Williams, A; Sumner, M	An independently controlled energy storage to support short term frequency fluctuations in weak electrical grids	INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS	Article	2018	WOS:000439746200053	
	2	Yuan, C; Liu, C; Yang, D; Zhou, RB; Tang, N	Transient Characteristics and Physical Constraints of Grid-Tied Virtual Synchronous Machines	JOURNAL OF POWER ELECTRONICS	Article	2018	WOS:000439142900015	
	3	Lai, CS; Jia, YW; Lai, LL; Xu, Z; McCulloch, MD; Wong, KP	A comprehensive review on large-scale photovoltaic system with applications of electrical energy storage	RENEWABLE & SUSTAINABLE ENERGY REVIEWS	Review	2017	WOS:000407185900032	

4	Vijay, AS; Doolla, S; Chandorkar, MC	Real-Time Testing Approaches for Microgrids	IEEE JOURNAL OF EMERGING AND SELECTED TOPICS IN POWER ELECTRONICS	Article	2017	WOS:000406643200037
5	Bunker, KJ; Weaver, WW	Multidimensional droop control for wind resources in dc microgrids	IET GENERATION TRANSMISSION & DISTRIBUTION	Article	2017	WOS:000397043800009
6	Henninger, S; Doering, L; Jaeger, J	Hardware Lab Tests on Dynamic Frequency Support by Converters Applying Different Inertia Constants	2017 IEEE INNOVATIVE SMART GRID TECHNOLOGIES - ASIA (ISGT-ASIA)	Proceedings Paper	2017	WOS:000435854300047
7	Ye, H; Liu, Y; Pei, W; Kong, L	Efficient Droop-based Primary Frequency Control from Variable-Speed Wind Turbines and Energy Storage Systems	2017 IEEE TRANSPORTATION ELECTRIFICATION CONFERENCE AND EXPO, ASIA-PACIFIC (ITEC ASIA-PACIFIC)	Proceedings Paper	2017	WOS:000426996500213
8	Boloorchi, M; Rostami, M; Green, V	BESS Connection Impact Assessment Considerations, Modeling and Case Study	2017 IEEE 30TH CANADIAN CONFERENCE ON ELECTRICAL AND COMPUTER ENGINEERING (CCECE)	Proceedings Paper	2017	WOS:000424192700121
9	Ye, H; Tang, YA; Liu, Y; Li, ZK; Qi, ZP	Transient Frequency Response Model-based Energy Storage Optimum Size in Power Systems	2017 FIRST IEEE INTERNATIONAL CONFERENCE ON ENERGY INTERNET (ICEI 2017)	Proceedings Paper	2017	WOS:000408549200012
10	Hemmati, R; Saboori, H	Short-term bulk energy storage system scheduling for load leveling in unit commitment: modeling, optimization, and sensitivity analysis	JOURNAL OF ADVANCED RESEARCH	Article	2016	WOS:000375844700004
11	Lee, SJ; Kim, JH; Kim, CH; Kim, SK; Kim, ES; Kim, DU; Mehmood, KK; Khan, SU	Coordinated Control Algorithm for Distributed Battery Energy Storage Systems for Mitigating Voltage and Frequency Deviations	IEEE TRANSACTIONS ON SMART GRID	Article	2016	WOS:000374971000051

12	Liu, J; Wen, JY; Yao, W; Long, Y	Solution to short-term frequency response of wind farms by using energy storage systems	IET RENEWABLE POWER GENERATION	Article	2016	WOS:000374783400010
13	Mukherjee, N; Strickland, D	Control of Cascaded DC-DC Converter-Based Hybrid Battery Energy Storage Systems-Part I: Stability Issue	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	Article	2016	WOS:000372645900036
14	Choi, JW; Heo, SY; Kim, MK	Hybrid operation strategy of wind energy storage system for power grid frequency regulation	IET GENERATION TRANSMISSION & DISTRIBUTION	Article	2016	WOS:000371826100021
15	Recalde, LAA; Cervantes, D; Falcones, S	Internal Mode Control for power system load frequency regulation assessment and Real Time Simulation	2016 IEEE ECUADOR TECHNICAL CHAPTERS MEETING (ETCM)	Proceedings Paper	2016	WOS:000389629300008
16	Kim, YS; Kim, ES; Moon, SI	Frequency and Voltage Control Strategy of Standalone Microgrids With High Penetration of Intermittent Renewable Generation Systems	IEEE TRANSACTIONS ON POWER SYSTEMS	Article	2016	WOS:000367298100070
17	Nikhil, K; Mishra, MK	Application of Hybrid Energy Storage System in a Grid Interactive Microgrid Environment	IECON 2015 - 41ST ANNUAL CONFERENCE OF THE IEEE INDUSTRIAL ELECTRONICS SOCIETY	Proceedings Paper	2015	WOS:000382950703006
18	Zhang, T; Gooi, HB; Chen, SX; Goh, T	Cost-Effectiveness Studies of the BESSs Participating in Frequency Regulation	2015 IEEE INNOVATIVE SMART GRID TECHNOLOGIES - ASIA (ISGT ASIA)	Proceedings Paper	2015	WOS:000380445100119
19	Piao, HY; Chen, SF; Lv, HC; Liu, HM	Control Strategy of Battery Energy Storage System to Participate in the Second Frequency Regulation	2015 International Symposium on Smart Electric Distribution Systems and Technologies (EDST)	Proceedings Paper	2015	WOS:000380614000008
20	Gkountaras, A; Dieckerhoff, S; Sezi, T	Performance Analysis of Hybrid Microgrids applying SoC-Adaptive Droop Control	2014 16TH EUROPEAN CONFERENCE ON POWER ELECTRONICS AND APPLICATIONS (EPE'14-ECCE EUROPE)	Proceedings Paper	2014	WOS:000361460002020
21	Rahman, SA; Mahendra, AC; Varma, RK; Litzenberger, WH	Bibliography of FACTS 2012-2013: IEEE Working Group Report	2014 IEEE PES GENERAL MEETING - CONFERENCE & EXPOSITION	Proceedings Paper	2014	WOS:000349551504060

	22	Zhang, LY; Chen, G; Wang, ZY; Dong, ZY; Hill, D	Robust H-infinity Load Frequency Control of Future Power Grid with Energy Storage Considering Parametric Uncertainty and Time Delay	2014 IEEE PES GENERAL MEETING - CONFERENCE & EXPOSITION	Proceedings Paper	2014	WOS:000349551502115	
5	<p><b>I. Serban, C. Marinescu, „Aggregate load-frequency control of a wind-hydro autonomous microgrid”, Renewable Energy, Elsevier, 2011, 36, (12), pp. 3345-3354. WOS:000293424400015.</b></p> <p><b>Nr. autori: 2</b></p> <p><b>Nr. citari ISI: 22 (13 reviste + 9 conferinte)</b></p>							
	<b>Nr.</b>	<b>Autori</b>	<b>Titlu</b>	<b>Publicatie</b>	<b>Tip articol</b>	<b>An</b>	<b>WOS</b>	
	1	Singh, RR; Kumar, BA; Shruthi, D; Panda, R; Raj, CT	Review and experimental illustrations of electronic load controller used in standalone Micro-Hydro generating plants	ENGINEERING SCIENCE AND TECHNOLOGY-AN INTERNATIONAL JOURNAL-JESTECH	Review	2018	WOS:000445967100009	
	2	Dahiya, P; Mukhija, P; Saxena, AR	Design of sampled data and event-triggered load frequency controller for isolated hybrid power system	INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS	Article	2018	WOS:000430519700030	
	3	Veronica, AJ; Kumar, NS	Development of hybrid microgrid model for frequency stabilization	WIND ENGINEERING	Article	2017	WOS:000412471700005	
	4	Scherer, LG; Tischer, CB; de Camargo, RF	Power rating reduction of distribution static synchronous compensator for voltage and frequency regulation of stand-alone self-excited induction generator	ELECTRIC POWER SYSTEMS RESEARCH	Article	2017	WOS:000405883500019	
	5	El Hamdaouy, A; Salhi, I; Belattar, A; Doubabi, S	Takagi-Sugeno fuzzy modeling for three-phase micro hydropower plant prototype	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	Article	2017	WOS:000406726000022	
	6	Chen, CY; Zhang, KF; Yuan, K; Wang, W	Extended Partial States Observer Based Load Frequency Control Scheme Design For Multi-area Power System Considering Wind Energy Integration	IFAC PAPERSONLINE	Proceedings Paper	2017	WOS:000423964800226	
	7	Kumar, D; Nandan, BR; Mathur, HD; Bhanot, S	Robust Controller Synthesis for Frequency Regulation in Islanded Microgrid	2017 IEEE PES ASIA-PACIFIC POWER AND ENERGY ENGINEERING CONFERENCE (APPEEC)	Proceedings Paper	2017	WOS:000428559200068	
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8	Hua, HC; Qin, YC; Cao, JW	A Class of Optimal and Robust Controller Design for Islanded Microgrid	2017 IEEE 7TH INTERNATIONAL CONFERENCE ON POWER AND ENERGY SYSTEMS (ICPES)	Proceedings Paper	2017	WOS:000425166300022
9	Veronica, AJ; Kumar, NS	Internal Model Based Load Frequency Controller Design for Hybrid Microgrid System	FIRST INTERNATIONAL CONFERENCE ON POWER ENGINEERING COMPUTING AND CONTROL (PECCON-2017 )	Proceedings Paper	2017	WOS:000419166600126
10	Veronica, AJ; Kumar, NS	Load Frequency Controller Design for Microgrid using Internal Model Control Approach	INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH	Article	2017	WOS:000404270700035
11	Abdoune, F; Aouzellag, D; Ghedamsi, K	Terminal voltage build-up and control of a DFIG based stand-alone wind energy conversion system	RENEWABLE ENERGY	Article	2016	WOS:000380600500043
12	Palmer, MD; Uehara, T; Shigenobu, R; Matayoshi, H; Senjyu, T; Datta, M	Suppression of power system voltage and frequency fluctuations by decentralized controllable loads	JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY	Article	2016	WOS:000383874000033
13	Mondal, A; Illindala, MS; Khalsa, AS; Klapp, DA; Eto, JH	Design and Operation of Smart Loads to Prevent Stalling in a Microgrid	IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS	Article	2016	WOS:000372986600007
14	Bevrani, H; Feizi, MR; Ataee, S	Robust Frequency Control in an Islanded Microgrid: H-infinity and mu-Synthesis Approaches	IEEE TRANSACTIONS ON SMART GRID	Article	2016	WOS:000372014900016
15	Palmer, M; Uehara, T; Shigenobu, R; Senjyu, T; Coauthor, AY	Modeling Method of Controllable Loads with Decentralized and PID plus DD Control Systems for use in Electric Power Transmission Systems	PROCEEDINGS OF THE 2016 IEEE REGION 10 CONFERENCE (TENCON)	Proceedings Paper	2016	WOS:000400378901180
16	Laly, MJ; Cheriyan, EP; Mathew, AT	Particle Swarm Optimization Based Optimal Power Flow Management of Power Grid with Renewable Energy Sources and Storage	2016 BIENNIAL INTERNATIONAL CONFERENCE ON POWER AND ENERGY SYSTEMS: TOWARDS SUSTAINABLE ENERGY (PESTSE)	Proceedings Paper	2016	WOS:000390837800069

	17	Prieto-Araujo, E; Olivella-Rosell, P; Cheah-Mane, M; Villafafila-Robles, R; Gomis-Bellmunt, O	Renewable energy emulation concepts for microgrids	RENEWABLE & SUSTAINABLE ENERGY REVIEWS	Review	2015	WOS:000358968000024	
	18	Mondal, A; Illindala, MS; Khalsa, AS	Design and Operation of Smart Loads in an Industrial Microgrid	2015 IEEE/IAS 51ST INDUSTRIAL & COMMERCIAL POWER SYSTEMS TECHNICAL CONFERENCE (I&CPS)	Proceedings Paper	2015	WOS:000370647700026	
	19	Vlad, C; Bratcu, AI; Munteanu, I; Epure, S	Real-time replication of a stand-alone wind energy conversion system: Error analysis	INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS	Article	2014	WOS:000329333100057	
	20	Rahman, SA; Varma, RK; Litzengerger, WH	Bibliography of FACTS Applications for Grid Integration of Wind and PV Solar Power Systems: 2010-2013 IEEE Working Group Report	2014 IEEE PES GENERAL MEETING - CONFERENCE & EXPOSITION	Proceedings Paper	2014	WOS:000349551504057	
	21	Mondal, A; Klapp, DA; Illindala, MS; Eto, JH	Modeling, Analysis and Evaluation of Smart Load Functionality in the CERTS Microgrid	2014 IEEE ENERGY CONVERSION CONGRESS AND EXPOSITION (ECCE)	Proceedings Paper	2014	WOS:000411444300649	
	22	Pandey, SK; Mohanty, SR; Kishor, N	A literature survey on load-frequency control for conventional and distribution generation power systems	RENEWABLE & SUSTAINABLE ENERGY REVIEWS	Review	2013	WOS:000325830900027	
6	<b>I. Serban, C. Marinescu, „A sensorless control method for variable-speed small wind turbines”, Renewable Energy, Elsevier, 2012, 43, pp. 256-266. WOS:000301311500027.</b>							
	<b>Nr. autori: 2</b>							
	<b>Nr. citari ISI: 23 (18 reviste + 5 conferinte)</b>							
	Nr.	Autori	Titlu	Publicatie	Tip articol	An	WOS	
	1	Rahimi, M	Modeling, control and stability analysis of grid connected PMSG based wind turbine assisted with diode rectifier and boost converter	INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS	Article	2017	WOS:000407526300008	
	2	Dong, YJ; Rao, KY; Chen, JM; Xu, MQ; Zhang, XM; Guo, JF	Development and Application of a Simple and Reliable Power Regulator for Small-scale Island Wind Turbine	ELECTRIC POWER COMPONENTS AND SYSTEMS	Article	2017	WOS:000410924500009	
	3	Gong, JY; Xie, R	MPPT Control by Using a U-P Curve for PMSG-Based Small Wind Turbines	JOURNAL OF ENERGY ENGINEERING	Article	2016	WOS:000383141900016	
								<b>57.5</b>

4	Gong, JY; Xie, R	Adaptive Control of PMSG-based Small Wind Turbines in Region II	PROCEEDINGS OF THE 35TH CHINESE CONTROL CONFERENCE 2016	Proceedings Paper	2016	WOS:000400282204135
5	Van Treuren, KW	SMALL HORIZONTAL AXIS WIND TURBINES: CURRENT STATUS AND FUTURE CHALLENGES	PROCEEDINGS OF THE ASME TURBO EXPO: TURBINE TECHNICAL CONFERENCE AND EXPOSITION, 2016, VOL 9	Proceedings Paper	2016	WOS:000385467400062
6	Chu, ZZ; Zhu, DQ; Yang, SX	ADAPTIVE TERMINAL SLIDING MODE BASED SENSORLESS SPEED CONTROL FOR UNDERWATER THRUSTER	INTERNATIONAL JOURNAL OF ROBOTICS & AUTOMATION	Article	2016	WOS:000376820100004
7	Prieto-Araujo, E; Olivella-Rosell, P; Cheah-Mane, M; Villafafila-Robles, R; Gomis-Bellmunt, O	Renewable energy emulation concepts for microgrids	RENEWABLE & SUSTAINABLE ENERGY REVIEWS	Review	2015	WOS:000358968000024
8	Linus, RM; Damodharan, P	Maximum power point tracking method using a modified perturb and observe algorithm for grid connected wind energy conversion systems	IET RENEWABLE POWER GENERATION	Article	2015	WOS:000359845200018
9	Bertasiene, A; Azzopardi, B	Synergies of Wind Turbine control techniques	RENEWABLE & SUSTAINABLE ENERGY REVIEWS	Review	2015	WOS:000351963400026
10	Urtasun, A; Sanchis, P; Marroyo, L	Small Wind Turbine Sensorless MPPT: Robustness Analysis and Lossless Approach	IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS	Article	2014	WOS:000346332000051
11	Burlibasa, A; Munteanu, I; Bratcu, AI	Unitary power control strategy for low-power wind energy conversion system using active speed stall control for full-load regime	IET RENEWABLE POWER GENERATION	Article	2014	WOS:000340265500013
12	Chen, JW; Chen, J; Gong, CY	On Optimizing the Aerodynamic Load Acting on the Turbine Shaft of PMSG-Based Direct-Drive Wind Energy Conversion System	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	Article	2014	WOS:000331791100022
13	Kortabarria, I; Andreu, J; de Alegria, IM; Jimenez, J; Garate, JI; Robles, E	A novel adaptative maximum power point tracking algorithm for small wind turbines	RENEWABLE ENERGY	Article	2014	WOS:000330488100089

14	Daraban, S; Petreus, D; Orian, C	Control topology for high efficiency small scale wind energy conversion systems	2014 INTERNATIONAL CONFERENCE ON OPTIMIZATION OF ELECTRICAL AND ELECTRONIC EQUIPMENT (OPTIM)	Proceedings Paper	2014	WOS:000343551300158
15	Dong, YJ; Guo, JF; Zhang, XM	Development and Performance Analysis of a Small Island Wind Turbine Generator System with High Reliability	JOURNAL OF ENERGY ENGINEERING	Article	2013	WOS:000330516600009
16	Kabalci, E	Design and analysis of a hybrid renewable energy plant with solar and wind power	ENERGY CONVERSION AND MANAGEMENT	Article	2013	WOS:000320841200009
17	Urtasun, A; Sanchis, P; San Martin, I; Lopez, J; Marroyo, L	Modeling of small wind turbines based on PMSG with diode bridge for sensorless maximum power tracking	RENEWABLE ENERGY	Article	2013	WOS:000316535900017
18	Bracco, S; Delfino, F; Pampararo, F; Robba, M; Rossi, M	The University of Genoa smart polygeneration microgrid test-bed facility: The overall system, the technologies and the research challenges	RENEWABLE & SUSTAINABLE ENERGY REVIEWS	Review	2013	WOS:000315244300035
19	Barote, L; Marinescu, C; Cirstea, MN	Control Structure for Single-Phase Stand-Alone Wind-Based Energy Sources	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	Article	2013	WOS:000309054800034
20	Urtasun, A; Sanchis, P; Marroyo, L	Small Wind Turbines Sensorless MPPT: Robustness Analysis and Lossless Approach	2013 IEEE ENERGY CONVERSION CONGRESS AND EXPOSITION (ECCE)	Proceedings Paper	2013	WOS:000345216902100
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22	Burlibasa, A; Munteanu, I; Bratcu, A	Control Law Design of a Low-power Wind Energy System Using Active Speed Stall Techniques	CONTROL ENGINEERING AND APPLIED INFORMATICS	Article	2012	WOS:000309372900003
23	Henriksen, LC	Wind Energy literature survey no. 25	WIND ENERGY	Review	2012	WOS:000308965700004

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**Nr. citari ISI: 10 (4 reviste + 6 conferinte)**

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1	Mukherjee, N; Strickland, D; Varnosfaderani, MA	Adaptive Control of Hybrid Battery Energy Storage Systems under Capacity Fade	EPE JOURNAL	Article	2015	WOS:000215610900004
2	Mukherjee, N; Strickland, D; Varnosfaderani, MA	Adaptive Control of Hybrid Battery Energy Storage Systems under Capacity Fade	2014 16TH EUROPEAN CONFERENCE ON POWER ELECTRONICS AND APPLICATIONS (EPE'14- ECCE EUROPE)	Proceedings Paper	2014	WOS:000361460002060
3	Deeba, SR; Sharma, R; Saha, TK	Coordinated Control of Multi-Functional Battery Energy Storage System in an Unbalanced Network	2014 Australasian Universities Power Engineering Conference (AUPEC)	Proceedings Paper	2014	WOS:000392752500171
4	Gonzatti, RB; Ferreira, SC; da Silva, CH; Pereira, RR; da Silva, LEB; Lambert-Torres, G; Pereira, RMR	Implementation of a Grid-forming Converter Based on Modified Synchronous Reference Frame	IECON 2014 - 40TH ANNUAL CONFERENCE OF THE IEEE INDUSTRIAL ELECTRONICS SOCIETY	Proceedings Paper	2014	WOS:000389471602002
5	de la Fuente, DV; Rodriguez, CLT; Garcera, G; Figueres, E; Gonzalez, RO	Photovoltaic Power System With Battery Backup With Grid-Connection and Islanded Operation Capabilities	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	Article	2013	WOS:000311790200031
6	Tan, XG; Li, QM; Wang, H	Advances and trends of energy storage technology in Microgrid	INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS	Article	2013	WOS:000311864800020
7	Feng, B; Lin, H; Wang, XW; An, X; Liu, BY	Optimal Zero-Vector Configuration for Space Vector Modulated AC-DC Matrix Converter	2012 IEEE ENERGY CONVERSION CONGRESS AND EXPOSITION (ECCE)	Proceedings Paper	2012	WOS:000312901700041

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	9	Citro, C; Luna, A; Rocabert, J; Munoz-Aguilar, RS; Candela, I; Rodriguez, P	Overview of Power Processing Structures for Embedding Energy Storage in PV Power Converters	IECON 2011: 37TH ANNUAL CONFERENCE ON IEEE INDUSTRIAL ELECTRONICS SOCIETY	Proceedings Paper	2011	WOS:000299032402115	
	10	Guerrero, JM	Special Issue on Power Electronics for Microgrids- Part I	IEEE TRANSACTIONS ON POWER ELECTRONICS	Editorial Material	2010	WOS:000285843100001	
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	1	Hernandez, JC; Sanchez-Sutil, F; Vidal, PG; Rus-Casas, C	Primary frequency control and dynamic grid support for vehicle-to-grid in transmission systems	INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS	Article	2018	WOS:000430519700015	
	2	Saarinen, L; Norrlund, P; Yang, WJ; Lundin, U	Linear synthetic inertia for improved frequency quality and reduced hydropower wear and tear	INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS	Article	2018	WOS:000425568100045	
	3	Onate, M; Posada, J; Lopez, J; Quintero, J; Aredes, M	Control of a back-to-back converter as a power transfer system using synchronverter approach	IET GENERATION TRANSMISSION & DISTRIBUTION	Article	2018	WOS:000431023100006	
	4	Yang, J; Yuan, WB; Sun, Y; Han, H; Hou, XC; Guerrero, JM	A novel quasi-master-slave control frame for PV-storage independent microgrid	INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS	Article	2018	WOS:000424720900025	
	5	Chen, M; Xiao, XN	Hierarchical frequency control strategy of hybrid droop/VSG-based islanded microgrids	ELECTRIC POWER SYSTEMS RESEARCH	Article	2018	WOS:000419410300013	<b>20</b>

	6	Hirase, Y; Abe, K; Sugimoto, K; Sakimoto, K; Bevrani, H; Ise, T	A novel control approach for virtual synchronous generators to suppress frequency and voltage fluctuations in microgrids	APPLIED ENERGY	Article	2018	WOS:000419813100056	
	7	Haritha, MS; Nair, DS	Review on Virtual Synchronous Generator (VSG) For Enhancing Performance Of Microgrid	2018 FOURTH INTERNATIONAL CONFERENCE ON POWER, SIGNALS, CONTROL AND COMPUTATION (EPSCICON)	Proceedings Paper	2018	WOS:000435990500007	
	8	Kumar, M; Kulkarni, OV; Vijay, AS; Doolla, S	Investigation of Induction Motor Support in weak Microgrids using Virtual Synchronous Generator	2017 NATIONAL POWER ELECTRONICS CONFERENCE (NPEC)	Proceedings Paper	2017	WOS:000428735000037	
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	1	Achlerkar, PD; Samantaray, SR; Manikandan, MS	Variational Mode Decomposition and Decision Tree Based Detection and Classification of Power Quality Disturbances in Grid-Connected Distributed Generation System	IEEE TRANSACTIONS ON SMART GRID	Article	2018	WOS:000443196400066	
	2	Das, S; Sadhu, PK; Satpati, B; Shrivastav, AK	AN INNOVATIVE HARMONIC REDUCTION STRATEGY TO ASCERTAIN THE STABILITY OF A GRID-CONNECTED PHOTOVOLTAIC SYSTEM	REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE	Article	2017	WOS:000405648900008	
	3	Bogaraj, T; Kanakaraj, J	Intelligent energy management control for independent microgrid	SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES	Article	2016	WOS:000381602500006	
	4	Sanjari, MJ; Gharehpetian, GB	Game-theoretic approach to cooperative control of distributed energy resources in islanded microgrid considering voltage and frequency stability	NEURAL COMPUTING & APPLICATIONS	Article	2014	WOS:000339387600010	

	5	Bellia, AH; Ramdani, Y; Moulay, F; Medles, K	IRRADIANCE AND TEMPERATURE IMPACT ON PHOTOVOLTAIC POWER BY DESIGN OF EXPERIMENTS	REVUE ROUMAINE DES SCIENCES TECHNIQUES- SERIE ELECTROTECHNIQUE ET ENERGETIQUE	Article	2013	WOS:000324447900006		
	6	Molina, MG; Suvire, GO; Mercado, PE	Compensation of Wind Generator Power Fluctuations in Microgrid Applications by Superconducting Magnetic Energy Storage	INTERNATIONAL REVIEW OF ELECTRICAL ENGINEERING-IREE	Article	2012	WOS:000305258900032		
	7	Molina, MG	Distributed Energy Storage Systems for Applications in Future Smart Grids	2012 SIXTH IEEE/PES TRANSMISSION AND DISTRIBUTION: LATIN AMERICA CONFERENCE AND EXPOSITION (T&D-LA)	Proceedings Paper	2012	WOS:000310427700005		
	8	Molina, MG; Mercado, PE	Power Flow Stabilization and Control of Microgrid with Wind Generation by Superconducting Magnetic Energy Storage	IEEE TRANSACTIONS ON POWER ELECTRONICS	Article	2011	WOS:000290735500022		
	9	Bizon, N	DEVELOPMENT OF A FUEL CELL STACK MACRO-MODEL FOR INVERTER CURRENT RIPPLE EVALUATION	REVUE ROUMAINE DES SCIENCES TECHNIQUES- SERIE ELECTROTECHNIQUE ET ENERGETIQUE	Article	2010	WOS:000286710100008		
10	<p><b>I. Serban</b>, „A novel transistor-less power decoupling solution for single-phase inverters”, 39<sup>th</sup> Annual Conference of the IEEE Industrial Electronics Society (IECON 2013), 10-13 Nov. 2013, Vienna, Austria, pp. 1496-1500.  <b>Nr. autori: 1</b>  <b>Nr. citari ISI: 8 (3 reviste + 5 conferinte)</b></p>								40
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	1	Yao, WL; Wang, XF; Loh, PC; Zhang, XB; Blaabjerg, F	Improved Power Decoupling Scheme for a Single-Phase Grid-Connected Differential Inverter With Realistic Mismatch in Storage Capacitances	IEEE TRANSACTIONS ON POWER ELECTRONICS	Article	2017	WOS:000388166200017		
2	Sun, Y; Liu, YL; Su, M; Xiong, WJ; Yang, J	Review of Active Power Decoupling Topologies in Single-Phase Systems	IEEE TRANSACTIONS ON POWER ELECTRONICS	Review	2016	WOS:000370528800010			



	3	Tang, Y; Yao, WL; Loh, PC; Blaabjerg, F	Highly Reliable Transformerless Photovoltaic Inverters With Leakage Current and Pulsating Power Elimination	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	Article	2016	WOS:000369990300033	
	4	Kumar, VVSP; Fernandes, BG	Active Power Decoupling Topology with Fault Tolerant Ability for a Single Phase Grid Connected Inverter	IECON 2015 - 41ST ANNUAL CONFERENCE OF THE IEEE INDUSTRIAL ELECTRONICS SOCIETY	Proceedings Paper	2015	WOS:000382950703079	
	5	Tang, Y; Yao, W; Wang, H; Loh, PC; Blaabjerg, F	Transformerless Photovoltaic Inverters with Leakage Current and Pulsating Power Elimination	2015 9TH INTERNATIONAL CONFERENCE ON POWER ELECTRONICS AND ECCE ASIA (ICPE-ECCE ASIA)	Proceedings Paper	2015	WOS:000382948300017	
	6	Tang, Y; Yao, W; Blaabjerg, F	A Dual Mode Operated Boost Inverter and Its Control Strategy for Ripple Current Reduction in Single-Phase Uninterruptible Power Supplies	2015 9TH INTERNATIONAL CONFERENCE ON POWER ELECTRONICS AND ECCE ASIA (ICPE-ECCE ASIA)	Proceedings Paper	2015	WOS:000382948300329	
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	8	Tang, Y; Blaabjerg, F	Power Decoupling Techniques for Single-Phase Power Electronics Systems - An Overview	2015 IEEE ENERGY CONVERSION CONGRESS AND EXPOSITION (ECCE)	Proceedings Paper	2015	WOS:000378882902123	
<b>11</b>	<b>I. Serban, C. Marinescu, „Active power decoupling circuit for a single-phase battery energy storage system dedicated to autonomous microgrids”, IEEE International Symposium on Industrial Electronics (ISIE 2010), Jul 04-07, 2010, Bari, Italy, pp. 2717-2722. WOS:000295007803079</b>							
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	1	Liao, CY; Lin, WS; Chen, YM; Chou, CY	A PV Micro-inverter With PV Current Decoupling Strategy	IEEE TRANSACTIONS ON POWER ELECTRONICS	Article	2017	WOS:000398952000057	
	2	Vitorino, MA; Alves, LFS; Wang, R; Correa, MBR	Low-Frequency Power Decoupling in Single-Phase Applications: A Comprehensive Overview	IEEE TRANSACTIONS ON POWER ELECTRONICS	Article	2017	WOS:000395480400037	
	3	Sun, Y; Liu, YL; Su, M; Xiong, WJ; Yang, J	Review of Active Power Decoupling Topologies in Single-Phase Systems	IEEE TRANSACTIONS ON POWER ELECTRONICS	Review	2016	WOS:000370528800010	

	4	Alves, LFS; Vitorino, MA; Oliveira, MAP; Correa, MBR; Goncalves, GS	Influence of Double-Line Frequency Power Oscillation in Photovoltaic Generator Efficiency and H-Bridge VSI Performance	2016 IEEE ENERGY CONVERSION CONGRESS AND EXPOSITION (ECCE)	Proceedings Paper	2016	WOS:000400778403132		
	5	Teke, A; Latran, MB	Review of Multifunctional Inverter Topologies and Control Schemes Used in Distributed Generation Systems	JOURNAL OF POWER ELECTRONICS	Review	2014	WOS:000333072900013		
	6	de la Fuente, DV; Rodriguez, CLT; Garcera, G; Figueres, E; Gonzalez, RO	Photovoltaic Power System With Battery Backup With Grid-Connection and Islanded Operation Capabilities	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	Article	2013	WOS:000311790200031		
	7	Bala, S; Tengner, T; Rosenfeld, P; Delince, F	The Effect of Low Frequency Current Ripple on the Performance of a Lithium Iron Phosphate (LFP) Battery Energy Storage System	2012 IEEE ENERGY CONVERSION CONGRESS AND EXPOSITION (ECCE)	Proceedings Paper	2012	WOS:000312901703096		
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	1	Yao, SG; Liu, W; Cheng, J; Shen, YJ	Series-parallel grouping modeling simulation and experimental analysis of zinc-nickel single flow batteries	JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY	Article	2018	WOS:000437280300021		
	2	Wang, QS; Liang, DL	Efficiency enhancement of the high-frequency isolated grid-connected converter for the battery energy storage system	JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY	Article	2017	WOS:000419000200025		
	3	Lee, SS; Heng, YE	Predictive direct power control of multilevel direct current link converter for grid connected battery energy storage systems	JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY	Article	2016	WOS:000379170900018		
	4	Yang, L; Tai, NL; Fan, CJ; Huang, WT	Distance protection optimization strategy for distribution systems with battery energy storage system	JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY	Article	2016	WOS:000379170900017		
	5	Rezaei, N; Kalantar, M	A novel hierarchical energy management of a renewable microgrid considering static and dynamic frequency	JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY	Article	2015	WOS:000357684800019		

	6	Pazheri, FR; Othman, MF; Malik, NH; Khan, Y	Emission constrained economic dispatch for hybrid energy system in the presence of distributed generation and energy storage	JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY	Article	2015	WOS:000350548700031		
<b>13</b>	<b>I. Serban, R. Teodorescu, J.M. Guerrero, C. Marinescu, „Modeling of an Autonomous Microgrid for Renewable Energy Sources Integration”, IECON: 2009 35th Annual Conference of IEEE Industrial Electronics, pp. 4311-4316. WOS:000280762001309.</b>								
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	1	Priolkar, JG; Gupta, A	Management & Control of Hybrid Power System	2015 INTERNATIONAL CONFERENCE ON INNOVATIONS IN INFORMATION, EMBEDDED AND COMMUNICATION SYSTEMS (ICIIECS)	Proceedings Paper	2015	WOS:000380462000388		<b>7.5</b>
	2	Zehir, MA; Batman, A; Sonmez, MA; Font, A; Tsiamitros, D; Stimoniaris, D; Kollatou, T; Bagriyanik, M; Ozdemir, A; Dialynas, E	Development of a Field Data-based Virtual Test Bed for Microgrid Integration of Building Automation Technologies	2015 9TH INTERNATIONAL CONFERENCE ON ELECTRICAL AND ELECTRONICS ENGINEERING (ELECO)	Proceedings Paper	2015	WOS:000380410800012		
3	Sabzehgar, R	A Review of AC/DC Microgrid-Developments, Technologies, and Challenges	2015 IEEE GREEN ENERGY AND SYSTEMS CONFERENCE (IGESC)	Proceedings Paper	2015	WOS:000378129600003			
4	Johnson, B; Davoudi, A; Chapman, P; Sauer, P	A Unified Dynamic Characterization Framework for Microgrid Systems	ELECTRIC POWER COMPONENTS AND SYSTEMS	Article	2012	WOS:000301973700006			
5	Pham, DH; Hunter, G; Li, L; Zhu, JG	Microgrid Topology for Different Applications in Vietnam	2012 22ND AUSTRALASIAN UNIVERSITIES POWER ENGINEERING CONFERENCE (AUPEC): GREEN SMART GRID SYSTEMS	Proceedings Paper	2012	WOS:000395446300060			

	6	Molina, MG; Mercado, PE	Power Flow Stabilization and Control of Microgrid with Wind Generation by Superconducting Magnetic Energy Storage	IEEE TRANSACTIONS ON POWER ELECTRONICS	Article	2011	WOS:000290735500022		
14	<p><b>I. Serban, C. Marinescu, „Frequency Control Issues in Microgrids with Renewable Energy Sources”, 7th International Symposium on Advanced Topics in Electrical Engineering (ATEE), May 12-14, 2011, Bucharest, ROMANIA, pp. 229-234. WOS:000310701200092.</b></p> <p><b>Nr. autori: 2</b></p> <p><b>Nr. citari ISI: 5 (4 reviste + 1 conferinta)</b></p>								
		<b>Nr</b>	<b>Autori</b>	<b>Titlu</b>	<b>Publicatie</b>	<b>Tip articol</b>	<b>An</b>	<b>WOS</b>	12.5
	1	Battistelli, C; Conejo, AJ	Optimal management of the automatic generation control service in smart user grids including electric vehicles and distributed resources	ELECTRIC POWER SYSTEMS RESEARCH	Article	2014	WOS:000335873800004		
	2	Bevrani, H; Ise, T; Miura, Y	Virtual synchronous generators: A survey and new perspectives	INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS	Article	2014	WOS:000325831600025		
	3	Bidram, A; Davoudi, A; Lewis, FL; Qu, ZH	Secondary control of microgrids based on distributed cooperative control of multi-agent systems	IET GENERATION TRANSMISSION & DISTRIBUTION	Article	2013	WOS:000321747100003		
	4	Raghmi, A; Ameli, MT; Hamzeh, M	Primary and Secondary Frequency Control in an Autonomous Microgrid Supported by a Load-Shedding Strategy	4TH ANNUAL INTERNATIONAL POWER ELECTRONICS, DRIVE SYSTEMS & TECHNOLOGIES CONFERENCE (PEDSTC 2013)	Proceedings Paper	2013	WOS:000322026400050		
5	Savaghebi, M; Jalilian, A; Vasquez, JC; Guerrero, JM	Secondary Control Scheme for Voltage Unbalance Compensation in an Islanded Droop-Controlled Microgrid	IEEE TRANSACTIONS ON SMART GRID	Article	2012	WOS:000325484200020			
15	<p><b>I. Serban, C. Marinescu, „A Solution for Frequency Control in Islanded Three-Phase Micro-Grids Supplied by Renewable Energy Sources”, 11th International Conference on Optimization of Electrical and Electronic Equipment OPTIM'08, May 22-24, 2008, Brasov, Romania, pp. 327-332. WOS: 000258258700054</b></p>								10

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	<b>Nr</b>	<b>Autori</b>	<b>Titlu</b>	<b>Publicatie</b>	<b>Tip articol</b>	<b>An</b>		<b>WOS</b>
	1	Adrees, A; Andami, H; Milanovic, JV	Comparison of Dynamic Models of Battery Energy Storage for Frequency Regulation in Power System	PROCEEDINGS OF THE 18TH MEDITERRANEAN ELECTROTECHNICAL CONFERENCE MELECON 2016	Proceedings Paper	2016		WOS:000390719500013
	2	Sanjari, MJ; Gharehpetian, GB	Game-theoretic approach to cooperative control of distributed energy resources in islanded microgrid considering voltage and frequency stability	NEURAL COMPUTING & APPLICATIONS	Article	2014		WOS:000339387600010
3	Mongkoltanatas, J; Riu, D; LePivert, X	Energy Storage design for Primary Frequency Control for Islanding Micro grid	38TH ANNUAL CONFERENCE ON IEEE INDUSTRIAL ELECTRONICS SOCIETY (IECON 2012)	Proceedings Paper	2012	WOS:000316962905088		
4	Jiang, SG; Wang, W; Jin, H; Xu, DG	Power Management Strategy for Microgrid with Energy Storage System	IECON 2011: 37TH ANNUAL CONFERENCE ON IEEE INDUSTRIAL ELECTRONICS SOCIETY	Proceedings Paper	2011	WOS:000299032401104		
<b>16</b>	<b>I. Serban, C. Marinescu, „A New Control Method for Power Quality Improvement in Island Microgrids”, 2008 IEEE International Symposium on Industrial Electronics – ISIE’08, 30 Jun-2 Jul, 2008, Cambridge, UK, pp. 2258-2263.WOS:000266702101066</b>						<b>10</b>	
	<b>Nr. autori: 2</b>							
	<b>Nr. citari ISI: 4 (1 revista + 3 conferinte)</b>							
	<b>Nr</b>	<b>Autori</b>	<b>Titlu</b>	<b>Publicatie</b>	<b>Tip articol</b>	<b>An</b>	<b>WOS</b>	
	1	Toups, TN; Czarnecki, LS	Development of Economic Incentives For Harmonic and Asymmetry Reduction Based on the Concept of Working Power	2013 IEEE INTERNATIONAL INSTRUMENTATION AND MEASUREMENT TECHNOLOGY CONFERENCE (I2MTC)	Proceedings Paper	2013	WOS:000326900400190	
	2	Czarnecki, LS	Working, reflected and detrimental active powers	IET GENERATION TRANSMISSION & DISTRIBUTION	Article	2012	WOS:000301718600006	

	3	Bhaskara, SN; Chowdhury, BH	Microgrids - A Review of Modeling, Control, Protection, Simulation and Future Potential	2012 IEEE POWER AND ENERGY SOCIETY GENERAL MEETING	Proceedings Paper	2012	WOS:000312493707043		
	4	Klumpner, C; Al, B; Hann, D	A Power Electronic Controlled Dump Load with Negligible Harmonics for Accurate Loading Used in Testing Small Wind Turbines	IEEE INTERNATIONAL SYMPOSIUM ON INDUSTRIAL ELECTRONICS (ISIE 2010)	Proceedings Paper	2010	WOS:000295007800095		
17	<p><b>I. Serban, C. Ion, C. Marinescu, M. N. Cirstea</b>, „Electronic Load Controller for Stand-Alone Generating Units with Renewable Energy Sources”, Proceedings of the 32<sup>nd</sup> annual conference of the IEEE Industrial Electronics Society – IECON 06, Paris, France, 6-10 Nov. 2006, pp. 4309-4312. WOS: 000245905006075  <b>Nr. autori: 4</b>  <b>Nr. citari ISI: 4 (2 reviste + 2 conferinte)</b></p>								
	1	Singh, B; Rajagopal, V	Neural-Network-Based Integrated Electronic Load Controller for Isolated Asynchronous Generators in Small Hydro Generation	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	Article	2011	WOS:000293920300056	5	
	2	Klumpner, C; Al, B; Hann, D	A Power Electronic Controlled Dump Load with Negligible Harmonics for Accurate Loading Used in Testing Small Wind Turbines	IEEE INTERNATIONAL SYMPOSIUM ON INDUSTRIAL ELECTRONICS (ISIE 2010)	Proceedings Paper	2010	WOS:000295007800095		
	3	Singh, B; Rajagopal, V	Battery Energy Storage Based Voltage and Frequency Controller for Isolated Pico Hydro Systems	JOURNAL OF POWER ELECTRONICS	Article	2009	WOS:000272133400006		
	4	Xue, YS; Chang, LC; Guo, ZH	A LOAD CONTROLLER FOR WIND/HYDROGEN/DIESEL WEAK GRID	2009 IEEE 22ND CANADIAN CONFERENCE ON ELECTRICAL AND COMPUTER ENGINEERING, VOLS 1 AND 2	Proceedings Paper	2009	WOS:000271823600170		
18	<p><b>I. Serban, C. Marinescu</b>, „Sensorless control for small wind turbines with permanent magnet synchronous generator”, 20<sup>th</sup> IEEE International Symposium on Industrial Electronics (ISIE), Jun 27-30, 2011, Gdansk, Poland, pp. 1482 – 1487. WOS: 000297160600236  <b>Nr. autori: 2</b></p>								7.5

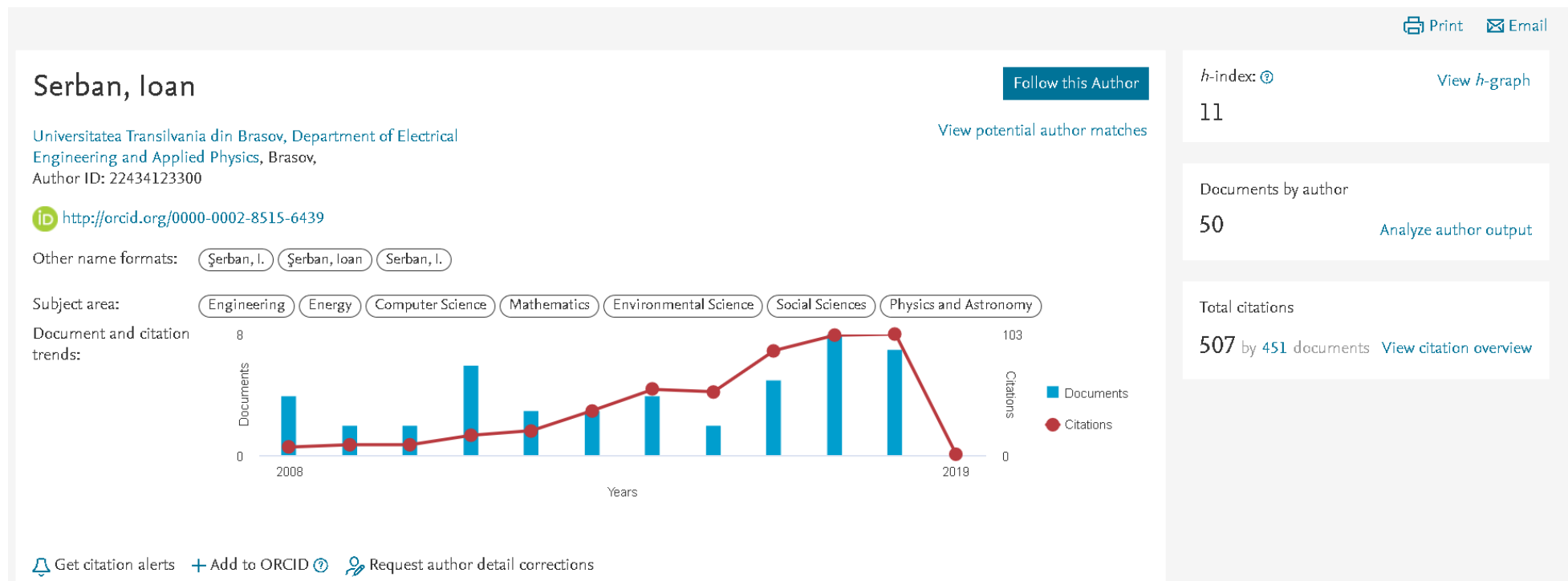
<b>Nr. citari ISI: 3 (1 revista + 2 conferinte)</b>						
<b>Nr</b>	<b>Autori</b>	<b>Titlu</b>	<b>Publicatie</b>	<b>Tip articol</b>	<b>An</b>	<b>WOS</b>
1	Dalala, ZM; Zahid, ZU; Lai, JS	New Overall Control Strategy for Small-Scale WECS in MPPT and Stall Regions With Mode Transfer Control	IEEE TRANSACTIONS ON ENERGY CONVERSION	Article	2013	WOS:000327642800031
2	Dalala, Z; Zahid, ZU; Lai, JS	New Overall Control Strategy for Wind Energy Conversion Systems in MPPT and Stall Regions	2013 IEEE ENERGY CONVERSION CONGRESS AND EXPOSITION (ECCE)	Proceedings Paper	2013	WOS:000345216902099
3	Hu, KW; Liaw, CM	Establishment of an IPMSG System with Vienna SMR and Its Applications to Microgrids	39TH ANNUAL CONFERENCE OF THE IEEE INDUSTRIAL ELECTRONICS SOCIETY (IECON 2013)	Proceedings Paper	2013	WOS:000331149501099
<b>TOTAL 3.1 (300 citări ISI, din care 202 reviste și 98 conferințe)</b>						<b>844.17</b>

### 3.2 Citări în revistele BDI și volumele conferințelor BDI

**Profil ORCID:** <https://orcid.org/0000-0002-8515-6439>

**Profiul Scopus:** <https://www.scopus.com/authid/detail.uri?authorId=22434123300&eid=2-s2.0-84883017556>

**Profil GoogleScholar:** [https://scholar.google.ro/citations?user=F\\_yaERoAAAAJ&hl=en&oi=ao](https://scholar.google.ro/citations?user=F_yaERoAAAAJ&hl=en&oi=ao)





3.2.1 Citări BDI (exclusiv autocitările și citările ISI-WOS)						Punctaj (3/nr.aut. ai art. citat)	
1	<b>I. Serban, C. Marinescu, „Control Strategy of Three-Phase Battery Energy Storage Systems for Frequency Support in Microgrids and with Uninterrupted Supply of Local Loads”, IEEE Transactions on Power Electronics, vol. 29, no. 9, Sept. 2014, pp. 5010-5020.</b> <b>Nr. autori: 2</b> <b>Nr. citari BDI (Scopus): 9 (4 reviste + 5 conferinte)</b>						13.5
	Nr.	Authori	Titlu	An	Publicatie	Tip articol	
	1	Barra, P.H.A., Rosentino, A.J.P., Neto, H.J.F., Delaiba, A.C.	Power system influence in a qualitative index for mechanical withstand safety margin analysis of transformers	2018	SBSE 2018 - 7th Brazilian Electrical Systems Symposium	Conference Paper	
	2	Alves, M.G., Melo, G.A., Canesin, C.A., De Brito, M.A.G.	Photovoltaic micro-grid for GD with active and reactive power injection control for connected and islanded operation	2018	SBSE 2018 - 7th Brazilian Electrical Systems Symposium	Conference Paper	
	3	Sathyaprabakaran, B., Paul, S., Chatterjee, D.	A new strategy for on-line droop adjustment for microgrid connected DGs	2018	International Journal of Power Electronics and Drive Systems	Article	
	4	Marinescu, C., Barote, L., Munteanu, D.	PV-battery system with enhanced control for microgrid integration	2016	2016 International Conference on Applied and Theoretical Electricity, ICATE 2016 - Proceedings	Conference Paper	
	5	Ananth, D.V.N., Nagesh Kumar, G.V.	Low voltage ride-through for doubly fed induction generator using battery-storage system	2016	International Journal of Power Electronics and Drive Systems	Article	
	6	Nguyen, V.-V., Nguyen, T.-T., Park, J.-S.	Microgrid control based on a DFIG integrated with a BESS	2016	International Journal of Control and Automation	Article	
	7	Zurfi, A., Zhang, J.	Exploitation of battery energy storage in load frequency control -A literature survey	2016	American Journal of Engineering and Applied Sciences	Review	
	8	Zhao, S., Khan, N., Wen, Y., Trescases, O.	Server power management with integrated Lithium-Ion Ultracapacitor and bi-directional DC-DC converter for distributed UPS and reactive power mitigation	2015	Conference Proceedings - IEEE Applied Power Electronics Conference and Exposition - APEC	Conference Paper	
9	Mariani, V., Vasca, F., Guerrero, J.M.	Analysis of droop controlled parallel inverters in islanded microgrids	2014	ENERGYCON 2014 - IEEE International Energy Conference	Conference Paper		

2	<b>I. Serban</b> , "Power Decoupling Method for Single-Phase H-Bridge Inverters With No Additional Power Electronics," IEEE Transactions on Industrial Electronics, vol. 62, no. 8, pp. 4805-4813, Aug. 2015.						21
	<b>Nr. autori: 1</b>						
	<b>Nr. citari BDI (Scopus): 7 (2 reviste + 5 conferinte)</b>						
	Nr.	Authori	Titlu	An	Publicatie	Tip articol	
	1	Li, J., Zhang, Q., Sun, X.	The research of a novel single-phase three-level inverter circuit with its modulation strategy	2018	Proceedings of the 13th IEEE Conference on Industrial Electronics and Applications, ICIEA 2018	Conference Paper	
	2	Khan, A., Blaabjerg, F.	Modified transformerless dual buck inverter with improved lifetime for PV applications	2018	IEEE International Reliability Physics Symposium Proceedings	Conference Paper	
	3	Gottardo, D., De Lillo, L., Empringham, L., Costabeber, A.	Differential buck single phase grid connected AC-DC converter with active power decoupling using a flipping capacitor	2017	2017 IEEE 8th International Symposium on Power Electronics for Distributed Generation Systems, PEDG 2017	Conference Paper	
	4	Xu, S., Shao, R., Chang, L.	Single-phase voltage source inverter with voltage-boosting and power decoupling capabilities	2017	2017 IEEE 8th International Symposium on Power Electronics for Distributed Generation Systems, PEDG 2017	Conference Paper	
5	Muñoz-Galeano, N., Cano-Quintero, J.B., López-Lezama, J.M.	Teaching the operation of full bridge converters: Power interchange analysis between inductors and capacitors [Enseñando el funcionamiento de los inversores puente H: análisis del intercambio de potencia entre bobinas y condensadores]	2016	Formacion Universitaria	Article		
6	Li, X., Xiao, S., Zhang, H., Balog, R.S., Ge, B.	Dual buck based power decoupling circuit for single phase inverter/rectifier	2016	ECCE 2016 - IEEE Energy Conversion Congress and Exposition, Proceedings	Conference Paper		
7	Kostinskiy, S.S.	The functional dependence for the estimation of additional losses of active power in a double-wound power transformer caused by asymmetric active-inductive load with a delta connection	2016	Mathematics Education	Article		
3	<b>I. Serban</b> , C. Marinescu, „Battery energy storage system for frequency support in microgrids and with enhanced control features for uninterruptible supply of local loads”, International Journal of Electrical Power and Energy Systems, vol. 54, Jan. 2014, pp. 432-441.						9
	<b>Nr. autori: 2</b>						
<b>Nr. citari BDI (Scopus): 6 reviste</b>							
Nr.	Authori	Titlu	An	Publicatie	Tip articol		
1	Banhthasit, B., Jamroen, C., Dechanupaprittha, S.	Optimal generation scheduling of power system for maximum renewable energy harvesting and power losses minimization	2018	International Journal of Electrical and Computer Engineering	Article		

	2	Kang, H.-G., Chun, Y.-H.	Comparative analysis of BESS and governor responses for maximum load variations in Korea power system	2018	Transactions of the Korean Institute of Electrical Engineers	Article		
	3	Banhthasit, B., Jamroen, C., Dechanupaprittha, S.	Optimal scheduling of renewable distribution generation for operating power loss optimization	2018	GMSARN International Journal	Article		
	4	Jeya Veronica, A., Senthil Kumar, N.	Load frequency controller design for microgrid using internal model control approach	2017	International Journal of Renewable Energy Research	Article		
	5	Shayeghi, H., Ghasemi, A.	Improvement of frequency fluctuations in microgrids using an optimized fuzzy P-PID controller by modified multi objective gravitational search algorithm	2016	Iranian Journal of Electrical and Electronic Engineering	Article		
	6	Ronilaya, F., Miyauchi, H.	A load frequency control in an off-grid sustainable power system based on a parameter adaptive PID-type fuzzy controller	2014	International Journal of Emerging Electric Power Systems	Article		
	<p><b>I. Serban, R. Teodorescu, C. Marinescu, „Energy Storage Systems Impact on the Short-Term Frequency Stability of Distributed Autonomous Microgrids, an Analysis Using Aggregate Models”, IET Renewable Power Generation, vol 7, no. 5, Sept. 2013, pp. 531-539.</b></p> <p><b>Nr. autori: 3</b></p> <p><b>Nr. citari BDI (Scopus): 5 conferinte</b></p>							
<b>4</b>	<b>Nr.</b>	<b>Authori</b>	<b>Titlu</b>	<b>An</b>	<b>Publicatie</b>	<b>Tip articol</b>	<b>5</b>	
	1	Toma, L., Sanduleac, M., Baltac, S.A., Arrigo, F., Mazza, A., Bompard, E., Musa, A., Monti, A.	On the virtual inertia provision by BESS in low inertia power systems	2018	2018 IEEE International Energy Conference, ENERGYCON 2018	Conference Paper		
	2	SemÅ«nov, D., Mirzaeva, G., Townsend, C.D., Goodwin, G.C.	A battery storage control scheme for AC microgrids	2017	2017 20th International Conference on Electrical Machines and Systems, ICEMS 2017	Conference Paper		
	3	Keskamol, K., Hoonchareon, N.	Sizing of battery energy storage system for sustainable energy in a remote area	2016	Proceedings of the 2015 IEEE Innovative Smart Grid Technologies - Asia, ISGT ASIA 2015	Conference Paper		
	4	Maleki, H., Varma, R.K.	Comparative study for improving damping oscillation of SMIB system with STATCOM and BESS using remote and local signal	2015	Canadian Conference on Electrical and Computer Engineering	Conference Paper		
	5	Ye, H., Qi, Z., Pei, W.	Modeling and evaluation of short-term frequency control for participation of wind farms and energy storage in power systems	2014	POWERCON 2014 - 2014 International Conference on Power System Technology: Towards Green, Efficient and Smart Power System, Proceedings	Conference Paper		

5	<b>I. Serban, C. Marinescu, „Aggregate load-frequency control of a wind-hydro autonomous microgrid”, Renewable Energy, Elsevier, 2011, 36, (12), pp. 3345-3354.</b> <b>Nr. autori: 2</b> <b>Nr. citari BDI (Scopus): 7 (3 reviste + 4 conferinte)</b>						10.5
	<b>Nr.</b>	<b>Authori</b>	<b>Titlu</b>	<b>An</b>	<b>Publicatie</b>	<b>Tip articol</b>	
	1	Al-Kalbani, S., Yousef, H.A., Al-Abri, R.	Load frequency control of a multi-area power system with PV penetration: PI and PID approach in presence of time delay	2017	Proceedings - 2016 51st International Universities Power Engineering Conference, UPEC 2016	Conference Paper	
	2	Braga, A.V., Rezek, A.J.J., Silva, V.F., Viana, A.N.C., Bortoni, E.C., Sanchez, W.D.C., Ribeiro, P.F.	Isolated induction generator in a rural Brazilian area: Field performance tests	2015	Renewable Energy	Review	
	3	Feizi, M.R., Babahajiani, P., Bevrani, H.	Fuzzy-PI-based supervisory frequency control design in a stand-alone AC microgrid	2015	Engineering Intelligent Systems	Article	
	4	Hu, J., Zhang, T., Du, S., Zhao, Y.	An overview on analysis and control of micro-grid system	2015	International Journal of Control and Automation	Article	
	5	Priolkar, J.G., Doolla, S.	Analysis of PV-hydro isolated power systems	2013	2013 Annual IEEE India Conference, INDICON 2013	Conference Paper	
	6	Berge, J., Varma, R.K., Litzemberger, W.H.	Bibliography of FACTS 2011: Part III IEEE working group report	2012	IEEE Power and Energy Society General Meeting	Conference Paper	
7	Baudoin, S., Vechiu, I., Camblong, H.	A review of voltage and frequency control strategies for islanded microgrid	2012	2012 16th International Conference on System Theory, Control and Computing, ICSTCC 2012 - Joint Conference Proceedings	Conference Paper		
6	<b>I. Serban, C. Marinescu, „A sensorless control method for variable-speed small wind turbines”, Renewable Energy, Elsevier, 2012, 43, pp. 256-266.</b> <b>Nr. autori: 2</b> <b>Nr. citari BDI (Scopus): 3 (1 revista + 2 conferinte)</b>						4.5
	<b>Nr.</b>	<b>Authori</b>	<b>Titlu</b>	<b>An</b>	<b>Publicatie</b>	<b>Tip articol</b>	
	1	Shchur, I., Lozinskyi, A., Kopchak, B., Biletskyi, Y., Shchur, V.	Passive stall control systems of power limitation modes for vertical axis wind turbines (VAWT)	2018	Lecture Notes in Electrical Engineering	Conference Paper	
2	Zhang, X., Hao, S., Wu, L., Zhai, J., Chen, F.	An improved decreasing torque gain control method for multi-type wind turbines with large rotational inertia	2017	Proceedings - 2017 Chinese Automation Congress, CAC 2017	Conference Paper		

	3	Saravanan, K., Kumar, A.S., Nandini, N.	Design and simulation of Hybrid Renewable Energy System (HRES) to supply three phase induction motor using fuzzy logic controller	2016	Journal of Chemical and Pharmaceutical Sciences	Article		
7	<p><b>I. Serban, C. Marinescu, „A Look at the Role and Main Topologies of Battery Energy Storage Systems for Integration in Autonomous Microgrids”, 12th International Conference on Optimization of Electrical and Electronic Equipment-OPTIM, May 20-21, 2010, Brasov, Romania, pp. 1186-1191.</b></p> <p><b>Nr. autori: 2</b></p> <p><b>Nr. citari BDI (Scopus): 7 (2 reviste + 5 conferinte)</b></p>							10.5
	Nr.	Authori	Titlu	An	Publicatie	Tip articol		
	1	Yang, T., Zhao, J., Wang, Q.	Research on power conversion system based on interleaved DC/DC converter	2016	Dianli Xitong Baohu yu Kongzhi/Power System Protection and Control	Article		
	2	Wang, S., Teodorescu, R., Mathe, L., Schaltz, E., Dan Burlacu, P.	State of Charge balancing control of a multi-functional battery energy storage system based on a 11-level cascaded multilevel PWM converter	2016	Joint International Conference - ACEMP 2015: Aegean Conference on Electrical Machines and Power Electronics, OPTIM 2015: Optimization of Electrical and Electronic Equipment and ELECTROMOTION 2015: International Symposium on Advanced Electromechanical Motion Systems	Conference Paper		
	3	Bousselham, A., Elrayyah, A.	Autonomous control of combined PV and battery sources for reliable power systems	2015	PCIM Europe 2015; International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management; Proceedings of	Conference Paper		
	4	Mukherjee, N., Strickland, D.	Second life battery energy storage systems: Converter topology and redundancy selection	2014	IET Conference Publications	Conference Paper		
	5	Mukherjee, N., Strickland, D.	Second life battery energy storage systems: Converter topology and redundancy selection	2014	7th IET International Conference on Power Electronics, Machines and Drives, PEMD 2014	Conference Paper		
	6	Weng, C.Y., Lin, H.H., Yi, P.H., Yeh, M.J., Huang, J.H., Hu, K.W., Liaw, C.M.	On a tiny DC microgrid with multiple input sources	2012	International Journal of Electrical Engineering	Article		
	7	Tan, X.-G., Lu, S.	Study on smart energy storage technology and control strategy in micro-grid	2012	Lecture Notes in Electrical Engineering	Conference Paper		

<b>8</b>	<p><b>I. Serban</b>, C.P. Ion, “Microgrid Control Based on a Grid-Forming Inverter Operating as Virtual Synchronous Generator with Enhanced Dynamic Response Capability”, International Journal of Electrical Power and Energy Systems, vol. 89, July 2017, pp. 94-105.</p> <p><b>Nr. autori: 2</b>  <b>Nr. citari BDI (Scopus): 6 (4 reviste + 2 conferinte)</b></p>					<b>9</b>	
	<b>Nr.</b>	<b>Authori</b>	<b>Titlu</b>	<b>An</b>	<b>Publicatie</b>		<b>Tip articol</b>
	1	Choopani, M., Hosseinain, S.H., Vahidi, B.	A novel comprehensive method to enhance stability of multi-VSG grids	2019	International Journal of Electrical Power and Energy Systems		Article
	2	Antunes, H.M.A., Silva, S.M., Brandao, D.I., Machado, A.A.P., Filho, B.D.J.C.	A new multifunctional converter based on a series compensator applied to AC microgrids	2018	International Journal of Electrical Power and Energy Systems		Article
	3	Lee, H.-G., Huh, J.-H.	A cost-effective redundant digital excitation control system and Test Bed Experiment for safe power supply for process industry 4.0	2018	Processes		Article
	4	Tessaro, H.J., De Oliveira, R.V., Bastiani, B.A.	A frequency control approach based on wind generation operating as virtual synchronous generator	2018	SBSE 2018 - 7th Brazilian Electrical Systems Symposium		Conference Paper
	5	Azar, A.T., Serrano, F.E.	Adaptive decentralised sliding mode controller and observer for asynchronous nonlinear large-scale systems with backlash	2018	International Journal of Modelling, Identification and Control		Article
6	Yang, S., Liu, H., Dai, C., Li, Y.	An application of virtual synchronous generator technology in wave energy	2017	OCEANS 2017 - Anchorage	Conference Paper		
<b>9</b>	<p><b>I. Serban</b>, C. Marinescu, „Frequency Control Issues in Microgrids with Renewable Energy Sources”, 7th International Symposium on Advanced Topics in Electrical Engineering (ATEE), May 12-14, 2011, Bucharest, ROMANIA, pp. 229-234.</p> <p><b>Nr. autori: 2</b>  <b>Nr. citari BDI (Scopus): 6 (1 revista + 5 conferinte)</b></p>					<b>9</b>	
	<b>Nr.</b>	<b>Authori</b>	<b>Titlu</b>	<b>An</b>	<b>Publicatie</b>		<b>Tip articol</b>
1	Kaviri, S.M., Pahlevani, M., Bakhshai, A., Jain, P.	A hierarchical control scheme to integrate the telecom backup systems into microgrid	2016	INTELEC, International Telecommunications Energy Conference (Proceedings)	Conference Paper		

	2	Lee, S., Lee, C., Park, M., Kwon, O.	Delay effects on secondary frequency control of micro-grids based on networked multi-agent	2016	International Conference on Control, Automation and Systems	Conference Paper		
	3	Gao, K.-C., Bi, D.-Q., Dai, Y.-X.	Novel control strategy of shore power supply based on virtual synchronous generator	2015	Dianji yu Kongzhi Xuebao/Electric Machines and Control	Article		
	4	Zoka, Y., Mashima, Y., Kuwada, Y., Sasaki, Y., Yorino, N.	An On-demand Generation Regulation Control for small independent power grids with effective EV charging control	2013	Proceedings of the Universities Power Engineering Conference	Conference Paper		
	5	Bidram, A., Lewis, F.L., Davoudi, A., Qu, Z.	Frequency control of electric power microgrids using distributed cooperative control of multi-agent systems	2013	2013 IEEE International Conference on Cyber Technology in Automation, Control and Intelligent Systems, IEEE-CYBER 2013	Conference Paper		
	6	Zoka, Y., Tonoda, R., Mashima, Y., Sasaki, Y., Yorino, N.	An on-demand control system for demand and supply control of small independent power grids	2012	Proceedings of the Universities Power Engineering Conference	Conference Paper		
	<p><b>I. Serban, R. Teodorescu, J.M. Guerrero, C. Marinescu, „Modeling of an Autonomous Microgrid for Renewable Energy Sources Integration”, IECON: 2009 35th Annual Conference of IEEE Industrial Electronics, pp. 4311-4316.</b></p> <p><b>Nr. autori: 4</b></p> <p><b>Nr. citari BDI (Scopus): 9 (2 reviste + 7 conferinte)</b></p>							
<b>10</b>	<b>Nr.</b>	<b>Authori</b>	<b>Titlu</b>	<b>An</b>	<b>Publicatie</b>	<b>Tip articol</b>	<b>6.75</b>	
	1	Chitra, N., Sivakumar, P., Priyanaka, S., Devisree, A.	Transient behaviour of a microgrid and its impact on stability during pre and post islanding -A novel survey	2018	International Journal of Engineering and Technology(UAE)	Article		
	2	Singh, O., Iqbal, A., Kumar, S., Rajput, S.K.	Hybrid renewable energy system integration in the micro-grid: Indian context	2017	ICCCCM 2016 - 2nd IEEE International Conference on Control Computing Communication and Materials	Conference Paper		
	3	Xu, X., Zhang, H., Xu, Q.	An approach to user-defined modeling implemented with MATLAB	2014	Asia-Pacific Power and Energy Engineering Conference, APPEEC	Conference Paper		
	4	Majeed, A.R., Fehrenbach, H.R., Muhsin, P.	Design of hybrid renewabl power plant for electrification of small villages	2014	2013 International Conference on Electrical, Communication, Computer, Power, and Control Engineering, ICECCPCE 2013	Conference Paper		
	5	Valja, M., Honeth, N., Buschle, M., Lagerstrom, R., Sasi, K.K., Nithin, S.	An archimate based analysis of microgrid control system architectures	2014	International Conference on Embedded Systems, ICES 2014	Conference Paper		

	6	Sivachandran, P., Muthukumar, R.	An overview of microgrid system	2014	International Journal of Applied Engineering Research	Article		
	7	Bashari, M., Salamati, M., Tavakkolinia, M., Rahimi-Kian, A.	A dynamic GA-based approach for optimal short-term operation of a micro-grid	2013	2013 21st Iranian Conference on Electrical Engineering, ICEE 2013	Conference Paper		
	8	Tudorache, T., Kisk, D. RÇZdulescu, B., Popes u, M	esign and implementation of an autonomous Wind/PV/Diesel/Battery power system	2012	Proceedings of the International Conference on Optimisation of Electrical and Electronic Equipment, OPTIM	Conference Paper		
	9	Govardhan, M.D., Roy, R.	A review on key issues of microgrid	2011	2011 IEEE PES International Conference on Innovative Smart Grid Technologies-India, ISGT India 2011	Conference Paper		
	<p><b>I. Serban</b>, „A novel transistor-less power decoupling solution for single-phase inverters”, 39<sup>th</sup> Annual Conference of the IEEE Industrial Electronics Society (IECON 2013), 10-13 Nov. 2013, Vienna, Austria, pp. 1496-1500.  <b>Nr. autori: 1</b>  <b>Nr. citari BDI (Scopus): 3 (1 revista + 2 conferinte)</b></p>							
<b>11</b>	<b>Nr.</b>	<b>Authori</b>	<b>Titlu</b>	<b>An</b>	<b>Publicatie</b>	<b>Tip articol</b>	<b>9</b>	
	1	Zhu, G.-R., Xiao, C.-Y., Wang, H.-R., Tan, S.-C.	Closed-loop waveform control of boost inverter	2016	IET Power Electronics	Article		
	2	Yao, W., Zhang, X., Wang, X., Tang, Y., Loh, P.C., Blaabjerg, F.	Power decoupling with autonomous reference generation for single-phase differential inverters	2015	2015 17th European Conference on Power Electronics and Applications, EPE-ECCE Europe 2015	Conference Paper		
	3	Yao, W., Wang, X., Zhang, X., Tang, Y., Loh, P.C., Blaabjerg, F.	A unified active damping control for single-phase differential mode buck inverter with LCL-filter	2015	2015 IEEE 6th International Symposium on Power Electronics for Distributed Generation Systems, PEDG 2015	Conference Paper		
<b>12</b>	<p><b>I. Serban</b>, „A control strategy for microgrids: Seamless transfer based on a leading inverter with supercapacitor energy storage system”, Applied Energy, vol. 221, 2018, pp. 490-507.  <b>Nr. autori: 1</b>  <b>Nr. citari BDI (Scopus): 2 reviste</b></p>							<b>6</b>
	<b>Nr.</b>	<b>Authori</b>	<b>Titlu</b>	<b>An</b>	<b>Publicatie</b>	<b>Tip articol</b>		
	1	Brandao, D.I., de Araújo, L.S., Caldognetto, T., Pomilio, J.A.	Coordinated control of three- and single-phase inverters coexisting in low-voltage microgrids	2018	Applied Energy	Article		



	2	Liang, H., Dong, Y., Huang, Y., Zheng, C., Li, P.	Modeling of multiple master-slave control under island microgrid and stability analysis based on control parameter configuration	2018	Energies	Article	
<b>TOTAL 3.2.1 (71 citări BDI-Scopus, din care 29 reviste și 42 conferințe)</b>							<b>113.75</b>

**3.4 Membru în colective de redacție sau comitete științifice ale revistelor și manifestărilor științifice, organizator de manifestări științifice, recenzor pentru reviste și manifestări științifice naționale și internaționale (punctajul se acordă pentru fiecare revistă, manifestare științifică și recenzie).**

<b>Nr. crt.</b>	<b>3.4.1 WOS (Recenzor reviste ISI-WOS)</b>	<b>Nr. recenzii</b>	<b>Punctaj (10/recenzie)</b>
1	IEEE Transactions on Power Electronics (ISSN: 0885-8993)	25	250
2	IEEE Transactions on Industrial Electronics (ISSN: 0278-0046)	17	170
3	International Journal of Electrical Power & Energy Systems (ISSN: 0142-0615)	8	80
4	IEEE Journal of Emerging and Selected Topics in Power Electronics (ISSN: 2168-6777)	7	70
5	IEEE Transactions on Energy Conversion (ISSN: 0885-8969)	6	60
6	IET Renewable Power Generation	4	40
7	IET Generation Transmission & Distribution (ISSN: 1751-8687)	3	30
8	Applied Energy (ISSN: 0306-2619)	5	50
9	Journal of Renewable and Sustainable Energy (ISSN: 1941-7012)	5	50
10	IEEE Transactions on Smart Grid (ISSN: 1949-3053)	3	30
11	IEEE Access (ISSN: 2169-3536)	3	30
12	IEEE Systems Journal (ISSN: 1932-8184)	2	20
13	IEEE Transactions on Industrial Informatics (ISSN: 1551-3203)	2	20
14	IEEE Transactions on Sustainable Energy (ISSN: 1949-3029)	2	20
15	IET Power Electronics (ISSN: 1755-4535)	1	10
16	International Transactions on Electrical Energy Systems (ISSN: 2050-703)	3	30
17	Energies (ISSN: 1996-1073)	1	10

<b>18</b>	Electric Power Components and Systems (ISSN: 1532-5008)	<b>1</b>	<b>10</b>
<b>19</b>	IEEE Transactions on Power Systems (ISSN: 0885-8950)	<b>1</b>	<b>10</b>
<b>20</b>	Energy Conversion and Management (ISSN: 0196-8904)	<b>1</b>	<b>10</b>
<b>21</b>	Simulation Modelling Practice and Theory (ISSN: 1569-190X)	<b>1</b>	<b>10</b>
	<b>TOTAL 3.4.1</b>	<b>101</b>	<b>1010</b>

### 3.6. Premii - internationale

<b>1</b>	2015 IET Renewable Power Generation Premium Award <a href="http://digital-library.theiet.org/content/journals/iet-rpg/info/prizes">http://digital-library.theiet.org/content/journals/iet-rpg/info/prizes</a>	<b>10</b>
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### 3.7 Membru in academii, organizatii, asociatii profesionale de prestigiu, nationale si internationale, apartenenta la organizatii din domeniul educatiei si cercetarii.

#### 3.7.4. Asociatii profesionale internationale

<b>1</b>	IEEE Membership; IEEE Industrial Electronics Society Membership; IEEE Power Electronics Society Membership. IEEE number: 90277573	<b>5</b>
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