

Anexa nr. 10 - COMISIA DE INGINERIE ENERGETICĂ  
 STANDARDE MINIMALE NECESARE ȘI OBLIGATORII PENTRU CONFERIREA TITLURILOR DIDACTICE DIN ÎNVĂȚĂMÂNTUL SUPERIOR ȘI A GRADELOR PROFESIONALE DE CERCETARE – DEZVOLTARE

Conf. dr. ing. Lucian TOMA  
 Perioada de raportare: toata cariera

1. Structura activității candidatului									
Nr.crt.	Domeniul activităților	Tipul activităților	Categorii și restricții	Subcategoriile	Indicatori (kpi)				
0	1	2	3	4	5	Kpi			
1	Activitatea didactică și profesională (A1)	1.1 Carti si capote în carti de specialitate	1.1.1 Carti/ capote ca autor pentru Profesor: minim 4, d.c. 1 prim autor; pentru Conferentiar: minim 2	1.1.1.1 internationale	nr. pagini/(2*nr. autori)	111.208	Total A1: 181.878		
				1.1.1.2 nationale	nr. pagini/(5*nr. autori)	19.120			
			1.1.2 Carti/ capote de carti ca editor/coordonator	1.1.2.1 internationale	nr. pagini/(3*nr. autori)				
				1.1.2.2 nationale	nr. pagini/(7*nr. autori)				
		1.2 Suport didactic	1.2.1 Manuale, suport de curs inclusiv electronic pentru Profesor: Minim 2 din care 1 ca prim autor; pentru Conferentiar minim 1		nr. pagini/(10*nr. autori)	37.700			
			1.2.2 Indrumare de laborator/aplicatii; pentru Profesor: minim 2, din care 1 prim autor; pentru conferentiar minim 1		nr. pagini/(20*nr. autori)	3.850			
		1.3	Coordonare de programe de studii, organizare și coordonare programe de formare continua și proiecte educationale (POS, ERASMUS, sa)	Punctaj unic pentru fiecare activitate		10	10.000		
		2	Activitatea de cercetare (A2)	2.1 Articole in extenso in reviste cotate WOS Thomson Reuters, in volume proceedings indexate WOS Thomson-Reuters si brevete de inventie indexate WOS-Derwent *)	2.1.1 Profesor: minim 10 articole, din care minim 4 in reviste		(25*20*factor impact)/nr.de autori	408.205	Total A2: 652.638
					2.1.2 Conferentiar: minim 7 articole, din care minim 2 in reviste				
				2.2 Articole in reviste si volumele unor manifestari stiintifice indexate in alte baze de date internationale **)	2.2.1 Profesor: minim 20 de articole		20/nr.de autori	36.333	
2.2.1 Conferentiar: minim 15 de articole									
2.3 Brevete de inventie indexate in alte baze de date				2.3.1 internationale	25/nr.de autori				
				2.3.2 nationale	15/nr.de autori				
2.4 Granturi/proiecte castigate prin competitie	2.4.1 Director/ responsabil partener proiect - minim 2 pentru Profesor minim 1 pentru Conferentiar			2.4.1.1 internationale	20*ani de desfasurare	60.000			
				2.4.1.2 nationale	10*ani de desfasurare	20.000			
	2.4.2 Membru in echipa			2.4.2.1 internationale	4*ani de desfasurare	69.600			
				2.4.2.2 nationale	2*ani de desfasurare	40.000			
2.5 Contracte de cercetare/consultanta (valoare echivalenta de minim 2 000 Euro)	2.5.1 Director/Responsabil partener		5*ani de desfasurare	12.500					
	2.5.2 Membru echipa		2*ani de desfasurare	6.000					
3	Activitati (A3)	3.1 Citări in reviste WOS si volumele conferintelor WOS	3.1.1 Profesor minim 8 citari		5/nr autori ai art.citat	54.167	Total A3: 643.167		
			3.1.2 Conferentiar minim 4 citari						
		3.2 Citări in reviste si volumele conferintelor BDI	3.2.1 Profesor minim 16 citari		3/nr autori ai art.citat	39.000			
			3.2.1 Conferentiar minim 8 citari						
		3.3 Prezentari invitate in plenum unor manifestari stiintifice nationale si internationale și Profesor invitat (exclusiv POS, ERASMUS)	Punctaj unic pentru fiecare activitate	3.3.1 internationale	20	100.000			
				3.3.2 nationale	5				
		3.4 Membru in colectivele de redactie sau comitete stiintifice al revistelor si manifestarilor stiintifice, Organizator de manifestari stiintifice, Recenzor pentru reviste si manifestari stiintifice nationale si internationale (punctajul se acorda pentru fiecare revista, manifestare stiintifica si recenzie)	Punctaj unic pentru fiecare activitate	3.3.1 ISI	10	190.000			
	3.3.2 BDI		6	72.000					
	3.3.3 nationale si internationale neindexate		3	15.000					
3.5	Referent in comisii de doctorat		3.5.1 internationale	10	10.000				

3	Recunoasterea si impa	3.6 Premii		3.5.2 nationale	5	25.000
				Academia Romana	30	
				ASAS, AOSR, academii de ramura și CNCS	15	15.000
				premiu internationale	10	10.000
				premiu nationale in domeniu	5	20.000
		3.7 Membru in academii, organizatii, asociatii profesionale de prestigiu, nationale si internationale, apartenență la organizatii din domeniul educatiei si cercetarii	3.7.1 Academia Romana		100	
			3.7.2 ASAS, AOSR si academii de ramura		30	
			3.7.3 Conducere asociatii profesionale	internationale	30	
				nationale	10	10.000
			3.7.4 Asociatii profesionale	internationale	5	10.000
				nationale	2	4.000
			3.7.5 Consilii si organizatii in domeniul educatiei și cercetării	Conducere	15	
				Membru	10	

**Nota:**

\*) Conform situatiei curente de pe site-ul ISI THOMSON REUTERS

\*\*) bazele de date internationale (BDI) luate in considerare pentru articolele publicate in reviste si publicate in volumele unor manifestari stiintifice, cu exceptia articolelor publicate in reviste cotate ISI, sunt cele recunoscute pe plan stiintific international: Scopus, IEEE Xplore, Science Direct, Elsevier, Wiley, ACM, DBLP, Springerlink, Engineering Village, Cabi, Emerald, CSA, Compendex, INSPEC, EBSCO, ProQuest, Index Copernicus, Ulrichweb.

**2. Formula de calcul a indicatorului de merit (A = A1+A2+A3)**

$$A = \sum_i k_{1i} + \sum_i k_{2i} + \sum_i k_{3i}$$

unde:  $k_{pi}$  - Indice specific tipului si categoriei de activitate

3. Conditii minimale (A <sub>1</sub> )			
Nr. crt.	Categoria		
	Domeniul de activitate	Conditii Profesor	Conditii Realizate pe perioada de raportare
1	Activitatea didactică / profesională (A1)	Minim 120 puncte	181.878
2	Activitatea de cercetare (A2)	Minim 360 puncte	652.638
3	Recunoașterea și impactul activității (A3)	Minim 120 puncte	643.167
TOTAL		Minim 600 puncte	1477.68
			Scor
			2.46

### 1.1. Carti si capitole în carti de specialitate

Nr crt.	1.1.1.1. Carti si capitole în carti de specialitate internationale, ca autor: Autori carte, Titlu carte, Editura (ISBN), Editori, Localitate, Tara, Numar pagini carte, Anul/ Autori capitol, Titlu capitol, Numar capitol, Numar pagini capitol, in: Titlu carte, Editura (ISBN), Editori, Localitate, Tara, Anul	Anul	Nr. pagini carte/ capitol	Nr. autori	Kpi
1	Antonello Monti, Federico Milano, Ettore Bompard, Xavier Guillaud (coordonatori) – Converter-Based Dynamics and Control of Modern Power Systems 1st Edition, Elsevier Academic Press, 2020, ISBN: 9780128184912: Capitolul 3: Classical grid control: Frequency and Voltage Stability, Autori: Ettore Bompard, Andrea Mazza, <b>Lucian Toma</b>		35	3	<b>5.833</b>
2	Capitolul 4: Modal Analysis, Autori: <b>Lucian Toma</b> , Ettore Bompard, Andrea Mazza		23	3	<b>3.833</b>
4	Mircea Eremia, Chen-Ching Liu, Abdul-Aty Edris (coordonatori) – Advanced Solutions in Power System: HVDC, FACTS, and Artificial Intelligence, Wiley & IEEE Press, Power Engineering Series, Octombrie 2016, ISBN 978-1119035695. Capitole: Capitolul 4: VSC-HVDC Transmission, pag. 125-268, Autori: Mircea Eremia, José Antonio Jardini, Guangfu Tang, <b>Lucian Toma</b>		143	4	<b>17.875</b>
5	Capitolul 5: Static Var Compensator - SVC, pag. 271-338, Autori: Mircea Eremia, Aniruddha Gole, <b>Lucian Toma</b>		67	3	<b>11.167</b>
6	Capitolul 7: Phase shifting transformer: mechanical and static devices, pag. 409-458, Autori: Mylavaram Ramamoorthy, <b>Lucian Toma</b>		50	2	<b>12.500</b>
7	Mircea Eremia, Mohammad Shahidehpour (coordonatori), ș.a. – Handbook of Electrical Power System Dynamics: Modeling, Stability, and Control, Wiley & IEEE Press, Power Engineering Series, Martie 2013, ISBN 978-1-1184-9717-3. Capitole: Capitolul 3 - Modeling The Main Components of the Classical Power Plants, pag. 137-178, Autori: Mohammad Shahidehpour, Mircea Eremia, <b>Lucian Toma</b>		41	3	<b>6.833</b>
8	Capitolul 5 - Short-Circuit Currents Calculation, pag. 229-290, Autori: Nouredine Hadjsaid, Ion Triștiu, <b>Lucian Toma</b>		61	3	<b>10.167</b>
9	Capitolul 8 - Background of Power System Stability, pag. 453-476, Autori: Mani S.S. Venkata, Mircea Eremia, <b>Lucian Toma</b>		23	3	<b>3.833</b>
	Mircea Eremia (coordonator) ș.a. – <i>Electric Power Systems . Electric Networks</i> , Editura Academiei Române, București, Februarie 2006, ISBN 973-27-1324-0. Capitole:				

Kpi = nr. pagini/(2\* nr. autori)

10	Capitolul 1 - Electric Power Systems Configuration and Parameters, pag. 3-82, Autori: Adrian Buta, Maria Tudose, <b>Lucian Toma</b>		79	3	<b>13.167</b>
11	Capitolul 6 - Electrical Power Quality, pag. 367-470, Autori: Adrian Buta, <b>Lucian Toma</b>		104	2	<b>26.000</b>
					<b>TOTAL 111.208</b>

Nr crt.	<b>1.1.1.2. Carti si capitole în carti de specialitate nationale, ca autor:</b> Autori carte, Titlu carte, Editura (cod CNCIS; ISBN), Editori, Localitate, Numar pagini carte, Anul/ Autori capitol, Titlu capitol, Numar capitol, Numar pagini capitol, in: Titlu carte, Editura (cod CNCIS; ISBN), Editori, Localitate, Anul	Anul	Nr. pagini carte/ capitol	Nr. autori	<b>Kpi</b>
1					
3	Mircea Eremia, Mihai Sănduleac, <b>Lucian Toma</b> , Constantin Bulac, Alisa Manoloiu – Dispozitive FACTS. Concepte și aplicații în electroenergetică, Editura AGIR, București, 2017, ISBN: 978-973-720-682-4.	2017	478	5	<b>19.120</b>
2					
3					
4					
5					
					<b>TOTAL 19.120</b>

**Kpi = nr.  
pagini/(5\*  
nr. autori)**

Nr crt.	<b>1.1.2.1. Carti si capitole în carti de specialitate internationale, ca editor/coordonator:</b> Titlu carte/denumire revista, Editura (ISBN sau ISSN), Editori/Coordonatori, volum(numar), Localitate, Tara, Numar total de autori, Numar de pagini carte, Anul/ Titlu capitol, Numar capitol, Coordonatori capitol, Numar autori capitol, Numar pagini capitol, in: Titlu carte/denumire revista, Editura (ISBN sau ISSN), Editori, volum(numar), Localitate, Tara, Anul	Anul	Nr. pagini carte/ capitol	Nr. autori carte/ capitol	<b>Kpi</b>
1					<b>#DIV/0!</b>
2					<b>#DIV/0!</b>
					<b>TOTAL #DIV/0!</b>

**Kpi = nr.  
pagini/(3\*  
nr. autori)**

Nr. crt.	<b>1.1.2.2. Carti si capitole în carti de specialitate nationale, ca editor/coordonator:</b> Titlu carte/denumire revista, Editura (cod CNCIS, ISBN sau ISSN), Editori/Coordonatori, volum(numar), Localitate, Numar total de autori, Numar de pagini carte, Anul/ Titlu capitol, Numar capitol, Coordonatori capitol, Numar autori capitol, Numar pagini capitol, in: Titlu carte/denumire revista, Editura (cod CNCIS, ISBN sau ISSN), Editori, volum(numar), Localitate, Anul	Anul	Nr. pagini carte/ capitol	Nr. autori carte/ capitol	Kpi
1					#DIV/0!
2					#DIV/0!
				<b>TOTAL</b>	<b>#DIV/0!</b>

**Kpi = nr. pagini/(7\* nr. autori)**

## 1.2. Suport didactic

Nr crt.	<b>1.2.1. Manuale, suport de curs inclusiv electronic:</b> Autori manual, Titlu, Editura (cod CNCIS; ISBN sau fara ISBN pentru edituri de institutie), Editori, Localitate, Numar pagini, Anul/ Autori suport curs electronic, Titlu, Numar pagini fisier, Anul, hyperlink la postarea online a fisierului electronic	Anul	Nr. pagini	Nr. autori	Kpi
1	<b>Lucian Toma</b> – Rețele electrice inteligente (curs in format electronic)		127	1	<b>12.700</b>
2	<b>Lucian Toma</b> – Modelarea și simularea instalațiilor electroenergetice bazate pe electronica de putere (curs in format electronic)		250	1	<b>25.000</b>
3					
<b>TOTAL</b>					<b>37.700</b>

Kpi = nr. pagini/(10 \*nr. autori)

Nr crt.	<b>1.2.2. Indrumare de laborator/aplicatii:</b> Autori, Titlu, Editura (cod CNCIS; ISBN), Editori, Localitate, Numar pagini, Anul	Anul	Nr. pagini	Nr. autori	Kpi
1	<b>Lucian Toma</b> , Bogdan Otomega – Îndrumar de laborator de rețele electrice, Politehnica Press, București, 2013, ISBN 978-606-515-473-5	2013	60	2	<b>1.500</b>
2	Mihai Sănduleac, <b>Lucian Toma</b> , Elemente de utilizare avansată a contoarelor de energie electrică în sisteme electroenergetice, Editura Politehnica Press, București, 2017, ISBN 978-606-515-766-8	2017	74	2	<b>1.850</b>
3	I. Triștiu, <b>L. Toma</b> , A, Mandiș, A. Manoloiu, A. Neagoe, D. Sidea – Transportul și distribuția energiei electrice. Îndrumar de laborator, Editura Politehnica Press, București, 2017, ISBN 978-606-515-746-0	2017	80	8	<b>0.500</b>
<b>TOTAL</b>					<b>3.850</b>

Kpi = nr. pagini/(20 \*nr)

Nr crt.	<b>1.3. Coordonare de programe de studii, organizare si coordonare programe de formare continua si proiecte educationale (POS, ERASMUS, sa)</b> Date identificare activitate (program/proiect), calitatea de coordonator/organizator, Anul	Anul sau Perioada raportata	Kpi	<b>Kpi = 10</b> (punctaj unic pentru fiecare activitate)
1	Coordonarea programului de licență "Energetică și Tehnologii Informatice"	2018-2021	10	
2				
3				
4				
		<b>TOTAL</b>	<b>10</b>	



**2.1. Articole in extenso in reviste cotate WOS Thomson Reuters, in volume proceedings indexate WOS Thomson-Reuters, brevete de inventie indexate WOS-Derwent\*)**

<b>TOTAL criteriu 2.1</b>	<b>408.205</b>
-------------------------------	----------------

Nr. crt.	<b>Articole in extenso in reviste cotate WOS Thomson Reuters*)</b> Autori, Titlu articol, Revista sau Conferinta (codul WOS al articolului** ; ISSN revista sau proceedings conferinta), Localitate+Tara+Perioada desfasurarii in cazul conferintei, volum(numar) revista/proceedings, pp. NX-NY (pagini articol de la NX pana la NY), Anul	Anul	Nr. autori	<b>FI pe 2019 (FI = factor impact)</b>	<b>Kpi</b>
1	Ioan-Cătălin Damian, Mircea Eremia, <b>Lucian Toma</b> – Fault Simulations in a Multiterminal High Voltage DC Network with Modular Multilevel Converters using Full-Bridge Submodules, Energies 2021, 14(6), 1653; <a href="https://www.mdpi.com/1996-1073/14/6/1653">https://www.mdpi.com/1996-1073/14/6/1653</a> . WOS:000634414500001 DOI: 10.3390/en14061653	2021	3	2.702	<b>26.347</b>
2	Constantin Ghinea, Mircea Eremia, <b>Lucian Toma</b> – Power system security of the power flow computation on distribution electric network using renewable energy sources, Buletinul U.P.B, Seria C, Vol. 83, Nr. 1, 2021, pag. 287-298, ISSN 2286-3540. WOS:000628640200022	2021	3	0	<b>8.333</b>
3	<b>Lucian Toma</b> , Mihai Sănduleac, Dorian-Octavian Sidea – Participation of the Virtual Power Plants to the frequency control in power systems, Buletinul U.P.B, Seria C, Vol. 83, Nr. 2, 2021, pag. 259-270, ISSN 2286-3540. WOS:000692193500020	2021	3	0	<b>8.333</b>
4	Adrian-Toni Radu, Mircea Eremia, <b>Lucian Toma</b> – Use of battery storage systems in EV ultra-fast charging stations for load spikes mitigation, Buletinul U.P.B, Seria C, Vol. 83, Nr. 2, 2021, pag. 283-294, ISSN 2286-3540. WOS:000692193500022	2021	3	0	<b>8.333</b>
5	Mihai Sanduleac, <b>Lucian Toma</b> , Mircea Eremia, Irina Ciornei, Constantin Bulac, Ion Triștiu, Andreea Iantoc, João F. Martins, Vitor F. Pires, On the electrostatic inertia in microgrids with inverter-based generation only – An analysis on dynamic stability, Energies 2019, 12(17), 3274; <a href="https://www.mdpi.com/1996-1073/12/17/3274">https://www.mdpi.com/1996-1073/12/17/3274</a> . WOS:000486860500071	2019	9	2.702	<b>8.782</b>
6	Mihai Sanduleac, João Martins, Irina Ciornei, Mihaela Albu, <b>Lucian Toma</b> , Fernao Pires, Lenos Hadjidemetriou, Rooktabir Saub - Resilient and Immune by Design Microgrids using Solid State Transformers, Energies 2018, 11(12), 3377; doi: 10.3390/en11123377, <a href="https://www.mdpi.com/1996-1073/11/12/3377">https://www.mdpi.com/1996-1073/11/12/3377</a> WOS:000455358300138	2018	8	2.702	<b>9.880</b>

Kpi =  
(25+20\*FI)/  
nr.de  
autori

7	Dorian Sidea, Mircea Eremia, <b>Lucian Toma</b> , Constantin Bulac – Optimal placement of phase-shifting transformer for active power flow control using genetic algorithms, Buletinul U.P.B, Seria C, Vol. 80, Nr. 1, 2018, pag. 205-216, ISSN 2286 – 3540. WOS:000428622400017	2018	4	0	<b>6.250</b>
8	Mihai Sanduleac, Irina Ciornei, Mihaela Albu, <b>Lucian Toma</b> , Marta Sturzeanu, Joao Martins – Resilient Prosumer Scenario in a Changing Regulatory Environment, Energies	2017	6	2.702	<b>13.173</b>
9	Mihai Sanduleac, Gianluca Lipari, Antonello Monti, Artemis, Voulkidis, Gianluca Zanetto, Antonello Corsi, <b>Lucian Toma</b> , Giampaolo Fiorentino, Dumitru Federenciu – Next generation real-time Smart Meters for ICT based assessment of grid data inconsistencies, Energies 2017, 10(7), 857; doi:10.3390/en10070857. http://www.mdpi.com/1996-1073/10/7/857 WOS:000406700200028	2017	9	2.702	<b>8.782</b>
10	Ali Abdulwahhab Abdulrazzaq, Mircea Eremia, <b>Lucian Toma</b> , Corneliu Alexandru Mandiș, Optimal distributed generators placement in a radial distribution network, U.P.B. Sci. Bull., Series C, Vol. 78, Iss. 2, 2016, pag. 261-272, ISSN 2286 – 3540. WOS:000388733300023	2016	4	0	<b>6.250</b>
11	Cristea Cristian, Mircea Eremia, <b>Lucian Toma</b> - Wind power forecasting accuracy assessment for multiple timescales, U.P.B Sci. Bulletin, Series C, Vol. 77, Iss. 4, 2015, pp. 393-404, ISSN 2286 – 3540. WOS:000421811300034	2015	3	0	<b>8.333</b>
12	Costel Constantin, Mircea Eremia, Iulia Cristina Constantin, <b>Lucian Toma</b> – Application of shunt FACTS devices for a secure and efficient operation of The Romanian power system, Buletinul U.P.B, Seria C, Vol. 76, Nr. 4, 2014, pag 225-234, ISSN 2286-3540.	2014	4	0	<b>6.250</b>
13	Valeriu Iulian Presadă, Mircea Eremia, <b>Lucian Toma</b> – Modified state estimation in presence of PMU measurements, Buletinul U.P.B, Seria C, Vol. 76, Nr. 1, 2014, pag 237-248, ISSN 2286 – 3540. (Indexat SCOPUS si Google Scholar)	2014	3	0	<b>8.333</b>
14	Bogdan Otomega, <b>Lucian Toma</b> , Constantin Bulac, Thierry Van Cutsem – Combined control actions to counteract long-term voltage instability, Buletinul U.P.B, Seria C, Vol. 74, Nr. 1, pag. 197-206, 2012, ISSN 1454-234x.(Indexat SCOPUS)	2012	4	0	<b>6.250</b>
15	Bogdan Otomega, <b>Lucian Toma</b> , Constantin Bulac, Thierry Van Cutsem – Automatic load reconnection after emergency undervoltage load shedding, Buletinul U.P.B, Seria C, Vol. 74, Nr. 1, pag. 207-214, 2012, ISSN 1454-234x. (Indexat SCOPUS)	2012	4	0	<b>6.250</b>
				<b>TOTAL</b>	<b>139.881</b>

Nr. crt.	<b>Articole in extenso in volume proceedings indexate WOS Thomson-Reuters *)</b> Autori, Titlu articol, Revista sau Conferinta (codul WOS al articolului ** ; ISSN revista sau proceedings conferinta), Localitate+Tara+Perioada desfasurarii in cazul conferintei, volum(numar) revista/proceedings, pp. NX-NY (pagini articol de la NX pana la NY), Anul	Anul	Nr. autori	<b>FI = 0</b>	<b>Kpi</b>
1	<b>Lucian Toma</b> , Mihai Sanduleac, Dorian-Octavian Sidea, Carmen Stanescu, Ciprian Diaconu, Mihaela Albu, Ana-Maria Dumitrescu – Frequency dynamics in the Romanian power system under large perturbations, 55th International Universities Power Engineering Conference, UPEC 2020, Torino, Italia, 1-4 Septembrie 2020. ISBN: 978-172811078-3 WOS:000627771000122	2020	7		<b>3.571</b>
2	Ionut-Catalin Damian, Mircea Eremia, <b>Lucian Toma</b> – Detailed Modelling and Control of a Modular Multilevel Converter with Full-Bridge Submodules in a Multi-Terminal High Voltage DC Network, 55th International Universities Power Engineering Conference, UPEC 2020, Torino, Italia, 1-4 Septembrie 2020. ISBN: 978-172811078-3 WOS:000627771000009	2020	3		<b>8.333</b>
3	Harold R. Chamorro, Roozbeh Torkzadeh, Omar Kotb, Kumars Rouzbehi, Juan Manuel Escano, Francisco Gonzalez-Longatt, Oriol Gomis Bellmunt, <b>Lucian Toma</b> , Vijay K. Sood – <i>On the Optimization of Damping Enhancement in a Power System with a Hybrid HVDC Link</i> , IEEE International Conference on Innovative Smart Grid Technologies – IEEE ISGT Europe 2019, București, România, 29 Septembrie - 2 Octombrie 2019. WOS:000550100400163 ISSN: 2165-4816	2019	9		<b>2.778</b>
4	Roozbeh Torkzadeh, Harold R. Chamorro, Rebecca Rye, Mojtaba Eliassi, <b>Lucian Toma</b> , Francisco Gonzalez-Longatt – <i>Reactive Power Control of Grid Interactive Battery Energy Storage System for WADC</i> , IEEE International Conference on Innovative Smart Grid Technologies – IEEE ISGT Europe 2019, București, România, 29 Septembrie – 2 Octombrie 2019. WOS:000550100400006 ISSN: 2165-4816	2019	6		<b>4.167</b>
5	Hariss Nicorescu, <b>Lucian Toma</b> , Mircea Eremia - <i>Fast detection of grid faults using synchronized measurements</i> , The 11th International Symposium on Advanced Topics in Electrical Engineering, București, România, 28-30 martie 2019. WOS:000475904500069 ISSN: 1843-8571	2019	3		<b>8.333</b>
6	Radu Adrian Toni, Mircea Eremia, <b>Lucian Toma</b> - <i>Optimal charging coordination of electric vehicles considering distributed energy resources</i> , 2019 IEEE Milano PowerTech Conference, Milano, Italia, 23-27 iunie 2019. WOS:000531166202012	2019	3		<b>8.333</b>

Kpi =  
(25+20\*FI)/  
nr.de  
autori

7	Dorian-Octavian Sidea, <b>Lucian Toma</b> , Mihai Sanduleac, Irina Picioroaga, Valentin-Adrian Boicea - <i>Optimal BESS Scheduling Strategy in Microgrids Based on Genetic Algorithms</i> , 2019 IEEE Milano PowerTech Conference, Milano, Italia, 23-27 iunie 2019. WOS:000531166201060	2019	5	<b>5.000</b>
8	Mihai Sanduleac, <b>Lucian Toma</b> , Mircea Eremia, Valentin A. Boicea, Dorian Sidea, Alexandru Mandis - Primary frequency control in a power system with batteries and energy recovery, Proceedings of 18th IEEE International Conference on Environment and Electrical Engineering (EEEIC), Palermo, Italia, 12-15 iunie 2018. WOS:000450163702104	2018	6	<b>4.167</b>
9	<b>Lucian Toma</b> , Mihai Sanduleac, Stefan Andrei Baltac, Francesco Arrigo, Andrea Mazza, Ettore Bompard, Aysar Musa, Antonello Monti - On the Virtual Inertia Provision by BESS in Low Inertia Power Systems, IEEE International Energy Conference, ENERGYCON 2018, Limassol, Cipru, 3-7 iunie 2018. WOS:000465417100022 ISSN: 2164-4322	2018	8	<b>3.125</b>
10	Adrian Toni Radu, Mircea Eremia, <b>Lucian Toma</b> - Promoting battery energy storage systems to support Electric Vehicle charging strategies in Smart Grids, IEEE Electrical Vehicles International Conference and Show, EV2017, București, Romania, 5-6 Octombrie 2017. WOS:000427815000006 ISBN:978-1-5386-2382-4	2017	3	<b>8.333</b>
11	Mihai Sanduleac, <b>Lucian Toma</b> , Constantin Bulac, Mircea Eremia, Nicolae Golovanov, Radu Porumb, Mihaela Albu, Stefan Gheorghe, Catalin Chimirel - Energy storage for reaching 100% CO2 free and 100% RES – preliminary case study for Romania, 8th International Conference on Energy and Environment (CIEM 2017), București, Romania, 19-20 Octombrie 2017. WOS:000427610300004	2017	9	<b>2.778</b>
12	Ionuț Cătălin Damian, Mircea Eremia, <b>Lucian Toma</b> - Advanced Control of A Modular Multilevel High Voltage Direct Current Converter, 8th International Conference on Energy and Environment (CIEM 2017), București, Romania, 19-20 Octombrie 2017. WOS:000427610300001 ISSN: 2067-0907	2017	3	<b>8.333</b>
13	Mihai Sanduleac, <b>Lucian Toma</b> , Gianfranco Chicco, Mihaela Albu – Network Code on Requirements for Generators – A discussion. Resynchronizing with paradigm shifts, IEEE International Conference on Innovative Smart Grid Technologies – IEEE ISGT Europe 2017, Torino, Italia, 26-29 Septembrie 2017. WOS:000428016500235	2017	4	<b>6.250</b>
14	Ion Necoara, Andrei Valentin Nedelcu, Dragos Nicolae Clipici, <b>Lucian Toma</b> , On fully distributed dual first order methods for convex network optimization, IFAC PapersOnLine, Vol. 50, No. 1, Pages 2788-2793, July 2017. <a href="https://www.journals.elsevier.com/ifac-papersonline">https://www.journals.elsevier.com/ifac-papersonline</a> WOS:000423845200450 ISSN: 2405-8963	2017	4	<b>6.250</b>

15	Dorian Sidea, <b>Lucian Toma</b> , Mircea Eremia, Sizing a phase shifting transformer for congestion management in high wind generation areas, Proceedings of 2017 IEEE Manchester PowerTech, Manchester, UK, 18-22 iunie 2017. ISBN:978-1-5090-4237-1 WOS:000411142500323	2017	3	<b>8.333</b>
16	Mircea Eremia, <b>Lucian Toma</b> , Mihai Sănduleac – The smart city concept in the 21st century, Procedia Engineering, Elsevier, ISSN:1877-7058, vol. 181, pag. 12-19, 2017. DOI: 10.1016/j.proeng.2017.02.357 ISSN:1877-7058 WOS:000404612700002 ISSN: 1877-7058	2017	3	<b>8.333</b>
17	Mihai Sănduleac, Ana-Maria Dumitrescu, <b>Lucian Toma</b> , Carmen Stănescu, Mihaela Albu, On the frequency measurement in Wide Area Measurement and Control Systems, The 10th International Symposium on Advanced Topics in Electrical Engineering, Bucharest, Romania, March 23-25, 2017. ISBN:978-1-5090-5160-1 WOS:000403399400111	2017	5	<b>5.000</b>
18	Mihai Sanduleac, Mihaela Albu, <b>Lucian Toma</b> , João Martins, Anabela Gonçalves Pronto, Vasco Delgado-Gomes – <i>Hybrid AC and DC Smart home resilient architecture. Transforming prosumers in UniRCons</i> , IEEE 23rd International Conference on Engineering, Technology and Innovation, Madeira, Portugalia, 27-29 iunie 2017. WOS:000464318300210	2017	6	<b>4.167</b>
19	Mihai Sănduleac, Catalin Lucian Chimirel, Mircea Eremia, <b>Lucian Toma</b> , Joao Martins – Supporting market solutions by calculating ancillary services and quality of service with metrology meters, Proceedings of IEEE PES Innovative Smart Grid Technology Europe (ISGT-2016), Ljubljana, Slovenia, pag. 1-6, 9-12 Octombrie 2016. ISBN:9781509033577 WOS:000405511300018 ISSN: 2334-315X	2016	5	<b>5.000</b>
20	Ion Necoară, <b>Lucian Toma</b> , Valentin Nedelcu, Dragos Clipici, Constantin Bulac – Optimal voltage control for loss minimization based on sequential convex programming, Proceedings of IEEE PES Innovative Smart Grid Technology Europe (ISGT-2016), Ljubljana, Slovenia, pag. 1-6, 9-12 Octombrie 2016. WOS:000405511300079 ISSN: 2165-4816	2016	5	<b>5.000</b>
21	Mihai Sănduleac, Mircea Eremia, <b>Lucian Toma</b> , Lola Alacreu, Lucas Ponce, Massimo Cresta, Marco Paulucci – Energy Ecosystem in Smart Cities - Privacy and Security solutions for Citizen's engagement in a Multi-Stream Environment, Proceedings of the IEEE 2nd International Smart Cities Conference (ISC2 2016) – Improving the citizens quality of life, Trento, Italia, pag. 46-49, 12-15 Septembrie 2016. WOS:000392263700009	2016	7	<b>3.571</b>

22	Mihai Sănduleac, Catalin Lucian Chimirel, Mircea Eremia, <b>Lucian Toma</b> , Dorel Stanescu, Cristea Cristian – Unleashing Smart Cities efficient and sustainable energy policies with IoT based unbundled smart meters, Proceedings of 2016 IEEE International Conference on Emerging Technologies and Innovative Business Practices for the Transformation of Societies (IEEE EmergiTech 2016), Balacalava, Mauritius, pag. 112-117, 3-6 august 2016. ISBN:978-1-5090-0706-6 WOS:000391537900022	2016	6	<b>4.167</b>
23	Mihai Sănduleac, Catalin Lucian Chimirel, Mircea Eremia, <b>Lucian Toma</b> , Joao Martins – Metrology based measurement of voltage control services provided by advanced power generation modules, Proceedings of 2016 10th International Conference on Compatibility, Power Electronics and Power Engineering, (CPE-POWERENG 2016), Bydgoszcz, Polonia, pag. 76-81, 29 iunie - 1 iulie 2016. WOS:000389594400011	2016	5	<b>5.000</b>
24	<b>Lucian Toma</b> , Ion Triștiu, Constantin Bulac, Andreea-Georgiana Neagoe-Ștefana – Optimal generation scheduling strategy in a microgrid, Proceedings of IEEE Transportation Electrification Conference and Expo Asia-Pacific (ITEC-BUSAN 2016), Busan, Coreea de Sud, pag. 491-496, 1-4 iunie 2016. WOS:000389514300096 ISSN: 2693-3586	2016	4	<b>6.250</b>
25	Gheorghe Florea, Radu Dobrescu, Oana Chenaru, Mircea Eremia, <b>Lucian Toma</b> – Methodology and Framework for Development of Smart Grid Control, Proceedings of 5th Workshop on Service Orientation in Holonic and Multi-Agent Manufacturing, SOHOMA'15, Cambridge, UK, 5-6 noiembrie 2015. ISBN: 978-3-319-30335-2 WOS:000386325800029	2015	5	<b>5.000</b>
26	Constantin Bulac, Ion Triștiu, Alexandru Mandiș, <b>Lucian Toma</b> – On-line Power Systems Voltage Stability Monitoring Using Artificial Neural Networks, Proceedings of The 9th International Symposium on Advanced Topics in Electrical Engineering 2015, Bucharest, 7-9 mai 2015. ISBN 978-1-4799-7514-3 WOS:000368159800117	2015	4	<b>6.250</b>
27	Ali Abdulwahhab Abdulrazzaq, Mircea Eremia, <b>Lucian Toma</b> , Corneliu Alexandru Mandis – Optimal Location And Size of SVC For Power Losses Minimization And Voltage Security Improvement, Proceedings of The 9th International Symposium on Advanced Topics in Electrical Engineering 2015, Bucharest, 7-9 mai 2015. ISBN 978-1-4799-7514-3 WOS:000368159800158	2015	4	<b>6.250</b>
28	Ion Tristiu, Constantin Bulac, Sorina Costinas, <b>Lucian Toma</b> , Alexandru Mandis, Tudor Zabava – An New And Efficient Algorithm For Short - Circuit Calculation In Distribution Networks With Distributed Generation, Proceedings of The 9th International Symposium on Advanced Topics in Electrical Engineering 2015, Bucharest, 7-9 mai 2015. ISBN 978-1-4799-7514-3 WOS:000368159800151	2015	5	<b>5.000</b>

29	Andreea-Georgiana NEAGOE-STEFANA, Mircea Eremia, <b>Lucian Toma</b> , Andrei Costin Neagoe – Impact Of Charging Electric Vehicles In Residential Network On The Voltage Profile Using Matlab, Proceedings of The 9th International Symposium on Advanced Topics in Electrical Engineering 2015, Bucharest, 7-9 mai 2015. ISBN 978-1-4799-7514-3 WOS:000368159800145	2015	4	<b>6.250</b>
30	Valeriu Iulian Presadă, Cristian Cristea Virgil, Mircea Eremia, <b>Lucian Toma</b> – State estimation in power systems with FACTS devices and PMU measurements, Proceedings of 49th International Universities Power Engineering Conference, UPEC 2014, Cluj-Napoca, România, 2-5 September 2014. WOS:000364087800112	2014	4	<b>6.250</b>
31	Ciprian Păunescu, Tudor Zăbavă, <b>Lucian Toma</b> , Constantin Bulac, Mircea Eremia – Hardware Home Energy Management System for Monitoring the Quality of Energy Service at Small Consumers, Proceedings of 16th IEEE International Conference on Harmonics and Quality of Power (ICHQP), București, 25-28 Mai 2014. WOS:000343776100006	2014	5	<b>5.000</b>
32	Ali Abdulrazzaq, Mircea Eremia, <b>Lucian Toma</b> – Power system performance improvement by using an SVC device, Proceedings of 2014 International Symposium on Fundamentals of Electrical Engineering (ISFEE), 28-29 Noiembrie 2014. WOS:000380570500023	2014	3	<b>8.333</b>
33	<b>Lucian Toma</b> , Mircea Eremia, Dorin Bică – Economic operation of distributed energy resources in a microgrid, Proceedings of 2013 IEEE Grenoble PowerTech Conference, Grenoble, Franța, Editor: IEEE, Organizator INP Grenoble, 16-20 iunie 2013. ISBN 9781467356688 WOS:000387091900415	2013	3	<b>8.333</b>
34	Valeriu Iulian Presadă, <b>Lucian Toma</b> , Mircea Eremia – An Algorithm for Improving the Power System State Estimation Using PMU Measurements, Proceedings of 2013 IEEE Grenoble PowerTech Conference, Grenoble, Franța, Editor: IEEE, Organizator INP Grenoble, 16-20 iunie 2013. ISBN 9781467356688 WOS:000364087800112	2013	3	<b>8.333</b>
35	Constantin Mirea, Mircea Eremia, <b>Lucian Toma</b> – Comparative analysis between conventional voltage control using reactors and continuous voltage control using TCR in the Romanian Transmission Grid, Proceedings of 2013 IEEE Grenoble PowerTech Conference, Grenoble, Franța, Editor: IEEE, Organizator INP Grenoble, 16-20 iunie 2013. ISBN 9781467356688 WOS:000387091900157	2013	3	<b>8.333</b>
36	Constantin Costel, <b>Lucian Toma</b> , Mircea Eremia – Power Flow Control Solutions in the Romanian Power System Under High Wind Generation Conditions, Proceedings of 2013 IEEE Grenoble PowerTech Conference, Grenoble, Franța, Editor: IEEE, Organizator INP Grenoble, 16-20 iunie 2013. ISBN 9781467356688 WOS:000387091900274	2013	3	<b>8.333</b>

37	<b>Lucian Toma</b> , Bogdan Otomega, Constantin Bulac, Ion Tristiu – Coordination of Distributed Generators Through the Virtual Power Plant Concept, Proceedings of IEEE PES Innovative Smart Grid Technology Europe ISGT-2012 Berlin, Germania, pag. 1-6, 14-17 Octombrie 2012, organizată de Universitatea Tehnică din Berlin, Editor IEEE, ISBN 978-1-4673-2595-0. (ISI Proceedings WOS:000258730100150 și SCOPUS art. nr. 6465769)	2012	4	<b>6.250</b>
38	Mihai Sănduleac, Mircea Eremia, <b>Lucian Toma</b> , Paul Borza – Integrating the Electrical Vehicles in the Smart Grid through Unbundled Smart Metering and multi-objective Virtual Power Plants, Proceedings of 2nd IEEE PES International Conference and Exhibition on Innovative Smart Grid Technologies, ISGT-2011, ISBN: 978-145771421-4, Manchester, Marea Britanie, Seria IEEE PES Innovative Smart Grid Technologies Conference Europe, Editor IEEE, Organizator University of Manchester, pag. 1-8, 5-7 Decembrie 2011. (indexat WOS Proceedings WOS:000407001900175 și SCOPUS art. nr. 6162786)	2011	4	<b>6.250</b>
39	Florin Balașiu, Felicia Lazăr, Rodica Balaurescu, Florin Ciausiu, <b>Lucian Toma</b> , Mircea Eremia – Future Improvements in the Romanian EPS Defence Plan, Proceedings of 2010 IEEE General Meeting, Minneapolis, SUA, pag. 1-8, 25-29 iunie 2010, Organizată de IEEE Power & Energy Society, Editor IEEE, ISBN 978-1-4244-8357-0. (indexat WOS Proceedings WOS:000287611901006 și SCOPUS art. nr. 5588084)	2010	6	<b>4.167</b>
40	Ioana Pisică, Constantin Bulac, <b>Lucian Toma</b> , Mircea Eremia – Optimal SVC Placement in Electric Power Systems using a Genetic Algorithms based Method, Proceedings of 2009 IEEE Bucharest PowerTech, București, pag. 1-6, 28 iunie – 2 iulie, 2009, organizator Universitatea POLITEHNICA din București, Editor IEEE, ISBN 978-1-4244-2234-0. (indexat WOS Proceedings WOS:000276834600115 și SCOPUS art. nr. 5281841).	2009	4	<b>6.250</b>
41	Constantin Bulac, Ciprian Diaconu, Mircea Eremia, Bogdan Otomega, Ioan Pop, <b>Lucian Toma</b> – Power Transfer Capacity Enhancement using SVC, Proceedings of 2009 IEEE Bucharest PowerTech, București, pag. 1-5, 28 iunie – 2 iulie, 2009, organizator Universitatea POLITEHNICA din București, Editor IEEE, ISBN 978-1-4244-2234-0. (indexat WOS Proceedings WOS:000276834600244 și SCOPUS art. nr. 5281833).	2009	6	<b>4.167</b>
42	Dragoș Deaconu, Aurel Chirilă, Mihaela Albu, <b>Lucian Toma</b> – Studies on LV DC network, Proceedings of 12th European Conference on Power Electronics and Applications – EPE2007, Aalborg, Danemarca, 7 pagini, 2-5 Septembrie, 2007, organizator Universitatea din Aalborg, Editor IEEE, ISBN 978-90-75815-11-5. (indexat WOS Proceedings WOS:000255993601091 și SCOPUS art. nr. 4417634).	2007	4	<b>6.250</b>



43	<b>Lucian Toma</b> , Laurențiu Urluescu, Mircea Eremia, Jean-Marc Revaz – Trading ancillary services for frequency regulation in competitive electricity markets, Proceedings of 2007 IEEE PowerTech Lausanne, Lausanne, Elveția, pag. 879-884, 1-5 iulie, 2007, organizator Ecole Federale Polytechnique de Lausanne, Editor IEEE, ISBN 978-1-4244-2189-3. (indexat WOS Proceedings WOS:000258730100150 și SCOPUS art. nr. 4538431 ).	2007	4		<b>6.250</b>
44	Cristea Cristian, João Peças Lopes, Mircea Eremia, <b>Lucian Toma</b> – The control of isolated power systems with wind generation, Proceedings of 2007 IEEE PowerTech Lausanne, Lausanne, Elveția, pag. 567-572, 1-5 iulie, 2007, organizator Ecole Federale Polytechnique de Lausanne, Editor IEEE, ISBN 978-1-4244-2189-3. (indexat WOS Proceedings WOS:000258730100098 și SCOPUS art. nr. 4538379).	2007	4		<b>6.250</b>
45	Ion Tristiu, Mircea Eremia, Constantin Bulac, <b>Lucian Toma</b> – Multi-criteria reconfiguration of distribution electrical networks for minimization of power losses and damage cost due to power supply interruption, Proceedings of 2007 IEEE PowerTech Lausanne, Lausanne, Elveția, pag. 385-390, 1-5 iulie, 2007, organizator Ecole Federale Polytechnique de Lausanne, Editor IEEE, ISBN 978-1-4244-2189-3. (indexat WOS Proceedings WOS:000258730100067 și SCOPUS art. nr. 4538348).	2007	4		<b>6.250</b>
				<b>TOTAL</b>	<b>268.323</b>

Nr. crt.	<b>Brevete de inventie indexate WOS-Derwent *)</b> Autori, Titlu articol, Revista sau Conferinta (codul WOS al articolului ** ; ISSN revista sau proceedings conferinta), Localitate+Tara+Perioada desfasurarii in cazul conferintei, volum(numar) revista/proceedings, pp. NX-NY (pagini articol de la NX pana la NY), Anul	Anul	Nr. autori	<b>FI = 0</b>	<b>Kpi</b>
1					<b>#DIV/0!</b>
2					<b>#DIV/0!</b>
3					<b>#DIV/0!</b>
4					<b>#DIV/0!</b>
5					<b>#DIV/0!</b>
				<b>TOTAL</b>	

Kpi =  
(25+20\*FI)/  
nr.de  
autori

Nr. crt.	2.2. Articole in reviste si volumele unor manifestari stiintifice indexate in alte baze de date internationale **) Autori, Titlu articol, Revista sau Conferinta (BDI in care este indexat articolul; ISSN revista sau proceedings conferinta), Localitate+Tara+Perioada desfasurarii in cazul conferintei, volum(numar) revista/proceedings, pp. NX-NY (pagini articol de la NX pana la NY), Anul	Anul	Nr. autori	Kpi	BDI in care este indexat articolul
1	Ioan-Cătălin Damian, Mircea Eremia, <b>Lucian Toma</b> , Modeling and control of a novel East-European Multiterminal High-Voltage DC Network, 2020 4th International Conference on Power and Energy Engineering (ICPEE 2020), Xiamen University of Technology, Xiamen, China, 19-21 noiembrie 2020, ISBN: 978-172819125-6, articol nr. 9311060	2020	3	6.667	SCOPUS
2	Mihai Sănduleac, Catalin Chimirel, <b>Lucian Toma</b> , Lola Alacreu, Lucas Ponce - National and inter-TSO balancing and ancillary services markets within a pyramid of energy services, 10th Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion, Belgrad, Serbia, 6-9 November, 2016. ISBN: 978-178561138-4.	2016	5	4.000	SCOPUS
3	<b>Lucian Toma</b> , Mircea Eremia, Constantin Bulac, Ion Triștiu – Optimizing the costs of reactive power for the coordinated voltage control service, Proceedings of 2011 IEEE Trondheim PowerTech, Trondheim, Norvegia, ISBN: 978-142448419-5, Editor: IEEE, Organizator: NTNU - Norwegian University of Science and Technology, pag. 1-6, 19-23 iunie 2011. (indexat SCOPUS, articol nr. 6019182)	2011	4	5.000	SCOPUS
4	Radu Adrian Toni, Mircea Eremia, <b>Lucian Toma</b> - <i>Participation of the Electric Vehicles to the Balancing Market</i> , IEEE Electrical Vehicles International Conference and Show, EV2019, București, Romania, 3-4 Octombrie 2019. ISBN: 978-172810791-2	2019	3	6.667	SCOPUS
5	Florin Ionescu, Constantin Bulac, Ioana Pisciă, Ion Triștiu, <b>Lucian Toma</b> – An evolutionary programming application to optimal reactive power dispatch, Buletinul U.P.B, Seria C, Vol. 72, Nr. 1, pag. 91-101, 2010, ISSN 1454-234x. (Indexat SCOPUS)	2010	5	4.000	SCOPUS
6	Bogdan Otomega, <b>Lucian Toma</b> , Constantin Bulac, Thierry Van Cutsem – Combined control actions to counteract long-term voltage instability, Buletinul U.P.B, Seria C, Vol. 74, Nr. 1, pag. 197-206, 2012, ISSN 1454-234x.(Indexat SCOPUS)	2012	4	5.000	SCOPUS
7	Bogdan Otomega, <b>Lucian Toma</b> , Constantin Bulac, Thierry Van Cutsem – Automatic load reconnection after emergency undervoltage load shedding, Buletinul U.P.B, Seria C, Vol. 74, Nr. 1, pag. 207-214, 2012, ISSN 1454-234x. (Indexat SCOPUS)	2012	4	5.000	SCOPUS
8	<b>Lucian Toma</b> , Mihai Sanduleac, Dorian-Octavian Sidea, Carmen Stanescu, Ciprian Diaconu, Mihaela Albu, Ana-Maria Dumitrescu – Frequency dynamics in the Romanian power system under large perturbations, 55th International Universities Power Engineering Conference, UPEC 2020, Torino, Italia, 1-4 Septembrie 2020. ISBN: 978-172811078-3	2020	7		SCOPUS
9	Ionut-Catalin Damian, Mircea Eremia, <b>Lucian Toma</b> – Detailed Modelling and Control of a Modular Multilevel Converter with Full-Bridge Submodules in a Multi-Terminal High Voltage DC Network, 55th International Universities Power Engineering Conference, UPEC 2020, Torino, Italia, 1-4 Septembrie 2020. ISBN: 978-172811078-3	2020	3		SCOPUS
10	Harold R. Chamorro, Roozbeh Torkzadeh, Omar Kotb, Kumars Rouzbehi, Juan Manuel Escano, Francisco Gonzalez-Longatt, Oriol Gomis Bellmunt, <b>Lucian Toma</b> , Vijay K. Sood – <i>On the Optimization of Damping Enhancement in a Power System with a Hybrid HVDC Link</i> , IEEE International Conference on Innovative Smart Grid Technologies – IEEE ISGT Europe 2019, București, România, 29 Septembrie - 2 Octombrie 2019. WOS:000550100400163 ISSN: 2165-4816	2019	9		SCOPUS
11	Roozbeh Torkzadeh, Harold R. Chamorro, Rebecca Rye, Mojtaba Eliassi, <b>Lucian Toma</b> , Francisco Gonzalez-Longatt – <i>Reactive Power Control of Grid Interactive Battery Energy Storage System for WADC</i> , IEEE International Conference on Innovative Smart Grid Technologies – IEEE ISGT Europe 2019, București, România, 29 Septembrie – 2 Octombrie 2019. WOS:000550100400006 ISSN: 2165-4816	2019	6		SCOPUS

12	Hariss Nicorescu, <b>Lucian Toma</b> , Mircea Eremia - <i>Fast detection of grid faults using synchronized measurements</i> , The 11th International Symposium on Advanced Topics in Electrical Engineering, București, România, 28-30 martie 2019. WOS:000475904500069 ISSN: 1843-8571	2019	3	SCOPUS
13	Radu Adrian Toni, Mircea Eremia, <b>Lucian Toma</b> - <i>Optimal charging coordination of electric vehicles considering distributed energy resources</i> , 2019 IEEE Milano PowerTech Conference, Milano, Italia, 23-27 iunie 2019. WOS:000531166202012	2019	3	SCOPUS
14	Dorian-Octavian Sidea, <b>Lucian Toma</b> , Mihai Sanduleac, Irina Picioroaga, Valentin-Adrian Boicea - <i>Optimal BESS Scheduling Strategy in Microgrids Based on Genetic Algorithms</i> , 2019 IEEE Milano PowerTech Conference, Milano, Italia, 23-27 iunie 2019. WOS:000531166201060	2019	5	SCOPUS
15	Mihai Sanduleac, <b>Lucian Toma</b> , Mircea Eremia, Valentin A. Boicea, Dorian Sidea, Alexandru Mandis - Primary frequency control in a power system with batteries and energy recovery, Proceedings of 18th IEEE International Conference on Environment and Electrical Engineering (EEEIC), Palermo, Italia, 12-15 iunie 2018. WOS:000450163702104	2018	6	SCOPUS
16	<b>Lucian Toma</b> , Mihai Sanduleac, Stefan Andrei Baltac, Francesco Arrigo, Andrea Mazza, Ettore Bompard, Aysar Musa, Antonello Monti - On the Virtual Inertia Provision by BESS in Low Inertia Power Systems, IEEE International Energy Conference, ENERGYCON 2018, Limassol, Cipru, 3-7 iunie 2018. WOS:000465417100022 ISSN: 2164-4322	2018	8	SCOPUS
17	Adrian Toni Radu, Mircea Eremia, <b>Lucian Toma</b> - Promoting battery energy storage systems to support Electric Vehicle charging strategies in Smart Grids, IEEE Electrical Vehicles International Conference and Show, EV2017, București, Romania, 5-6 Octombrie 2017. WOS:000427815000006 ISBN:978-1-5386-2382-4	2017	3	SCOPUS
18	Mihai Sanduleac, <b>Lucian Toma</b> , Constantin Bulac, Mircea Eremia, Nicolae Golovanov, Radu Porumb, Mihaela Albu, Stefan Gheorghe, Catalin Chimirel - Energy storage for reaching 100% CO2 free and 100% RES – preliminary case study for Romania, 8th International Conference on Energy and Environment (CIEM 2017), București, Romania, 19-20 Octombrie 2017. WOS:000427610300004	2017	9	SCOPUS
19	Ionuț Cătălin Damian, Mircea Eremia, <b>Lucian Toma</b> - Advanced Control of A Modular Multilevel High Voltage Direct Current Converter, 8th International Conference on Energy and Environment (CIEM 2017), București, Romania, 19-20 Octombrie 2017. WOS:000427610300001 ISSN: 2067-0907	2017	3	SCOPUS
20	Mihai Sanduleac, <b>Lucian Toma</b> , Gianfranco Chicco, Mihaela Albu – Network Code on Requirements for Generators – A discussion. Resynchronizing with paradigm shifts, IEEE International Conference on Innovative Smart Grid Technologies – IEEE ISGT Europe 2017, Torino, Italia, 26-29 Septembrie 2017. WOS:000428016500235	2017	4	SCOPUS
			<b>TOTAL</b>	<b>36.333</b>

**\*\*)** bazele de date internationale (BDI) luate in considerare pentru articolele publicate in reviste si publicate in volumele unor manifestari stiintifice, cu exceptia articolelor publicate in reviste cotate ISI, sunt cele recunoscute pe plan stiintific international: Scopus, IEEE Xplore, Science Direct, Elsevier, Wiley, ACM, DBLP, Springerlink, Engineering Village, Cabi, Emerald, CSA, Compendex, INSPEC, EBSCO, ProQuest, Index Copernicus, Ulrichweb.

\*se pune link spre baza de date in care este articolul

<https://www.scopus.com/authid/detail.uri?authorId=24759305900>

### 2.3. Brevete de inventie indexate in alte baze de date

Nr. crt	<b>2.3.1. internationale</b> Autori, Titlu, Elemente de identificare, Anul	Anul	Nr. autori	Kpi
1				#DIV/0!
			<b>TOTAL</b>	<b>#DIV/0!</b>

**Kpi = 25/nr.de autori**

Nr. crt	<b>2.3.2. nationale</b> Autori, Titlu, Elemente de identificare, Anul	Anul	Nr. autori	Kpi
1				#DIV/0!
			<b>TOTAL</b>	<b>#DIV/0!</b>

**Kpi = 15/nr.de autori**

#### 2.4. Granturi/proiecte castigate prin competitie nationala/internationala

Nr. crt	<b>2.4.1.1. Granturi/proiecte castigate prin competitie, ca Director/ Responsabil partener, internationale:</b> Director proiect, Responsabili parteneri, Titlu proiect (si acronim), Tip grant si cod proiect, Autoritatea contractanta, Beneficiar, Tip finantare, Tara, Perioada derularii	Perioada	Suma totala (de specificat unitatea monetara)	Nr. ani	Kpi
1	<b>Renewables in a Stable Electric Grid (RE-SERVE), H2020-LCE-2016-RES-CCS-RIA, 2016-2019. (responsabil din partea UPB), Beneficiar: Comisia Europeana</b>	2016-2019	135000 Euro	3	60.000
2					0.000
				<b>TOTAL</b>	<b>60.000</b>

Kpi = 20\*ani de desfasurare

Nr. crt	<b>2.4.1.2. Granturi/proiecte castigate prin competitie, ca Director/ Responsabil partener, nationale:</b> Director proiect, Responsabili parteneri, Titlu proiect (si acronim), Tip grant si cod proiect, Autoritatea contractanta, Beneficiar, Perioada derularii	Perioada	Suma totala (lei)	Nr. ani	Kpi
1	Algoritmi de dispecerizare optimă a microrețelelor electrice pentru integrarea surselor regenerabile de energie și automobilelor electrice. Grant de cercetare cu Universitatea Politehnica din Bucuresti, 2016-2017.	2016-2017	22000 lei	1	10.000
2	<b>Studiu privind realizarea unor automatizari de declansare a grupurilor in regimuri critice de evacuare a puterii produse in zone cu dezvoltare accelerata a parcului de productie din surse regenerabile, Contract de cercetare nr. C361/16.09.2014 (T.05.15.01) în parteneriat cu Societatea Inginerie Sisteme S.A. pentru C.N. Transelectrica S.A., 2014-2015 (responsabil din partea UPB)</b>	2014-2015	144670 lei	1	10.000
				<b>TOTAL</b>	<b>20.000</b>

Kpi = 10\*ani de desfasurare

Nr. crt	<b>2.4.2.1. Granturi/proiecte castigate prin competitie, ca Membru in echipa, internationale:</b> Director proiect, Responsabili parteneri, Autori (candidatul subliniat), Titlu proiect (si acronim), Tip grant si cod proiect, Autoritatea contractanta, Beneficiar, Tip finantare, Tara, Perioada derularii	Perioada	Suma totala (de specificat unitatea monetara)	Nr. ani	Kpi
1	An ICT platform for sustainable energy ecosystem in smart Cities (ITCity), FP7 ERA-NET-LAC, 2017-2020 (Responsabil UPB: Ș.I. Ana-Maria Dumitrescu), Beneficiar: Comisia Europeana	2017-2020		3	12.000

Kpi = 4\*ani de desfasurare

2	Energy Storage for Future Grids (Storage4Grid), H2020-LCE-2016-SGS, Grant nr. 731155, 2016-2019. Funcția: Cercetător. (Responsabil UPB: Conf. Mihai Sănduleac), Beneficiar: Comisia Europeană	2016-2019	410000 Euro	3	<b>12.000</b>
3	New Cost Efficient Business Models for Flexible Smart Grids (NOBEL GRID), H2020-LCE-2014-3, Grant nr. 646184, 2015-2018 (Responsabil UPB: Prof. Mihaela Albu), Beneficiar: Comisia Europeană	2015-2018	245000 Euro	0.4	<b>1.600</b>
4	Proiect Cadru 6 – EC Specific Targeted Research Project (STREP), <i>Virtual synchronous machines for frequency stabilization in future grids with a significant share of decentralized generation – VSYNC</i> , FP6-2005-TREN-4, SUSTDEV-2005-1.1.7-1., 2007 – 2009 (Responsabil din partea UPB: Prof.dr.ing. Mihaela Albu), Beneficiar: Comisia Europeană	2007-2009		3	<b>12.000</b>
5	GREPPEGE (Groupe de REcherche pour la Prévention des Pannes d'Electricité Généralisées) – Proiect bilateral Franța (Institut National Polytechnique de Grenoble) – România (Universitatea POLITEHNICA din București), Nr. 14915UJ, Programul "Brâncuși", prin Ministerul Educației și Cercetării – Agenția Națională pentru Cercetare Științifică, 2007-2008 (Director de proiect: Prof.dr.ing. Mircea Eremia).	2007-2008		2	<b>8.000</b>
6	IRIDE (Italian – Romanian Initiative for Development of sustainable Energy from renewable sources) – proiect bilateral Italia – Romania, Domeniul Mediu și Energie Regenerabilă, prin Ministerul Educației și Cercetării – Agenția Națională pentru Cercetare Științifică, 2006-2008 (Director de proiect: Prof.dr.ing. Petru Postolache).	2006-2008		2	<b>8.000</b>
7	Proiect Cadru 6 – EC Framework Programme on Research, Technological Development and Demonstration, <i>Virtual Balkan Centre for Advance Renewable Energy Sources in Western Balkans – VBPC-RES</i> , FP6-2002-INCO-WBC-1, Nr. 509205. 2005 – 2007 (Responsabil din partea UPB: Prof.dr.ing. Mircea Eremia), Beneficiar: Comisia Europeană	2005-2007		3	<b>12.000</b>
8	WEDISTRICK, HORIZON 2020, proiect câștigat prin competiție Horizon 2020, proiect nr. 857801, liderul proiectului european: Actiona (Spania), proiect de 42 luni, derulare 2019-2023, (Responsabil din partea UPB: Conf.dr.ing. Constantin Ionescu	2019-2023		1	<b>4.000</b>
					<b>0.000</b>
				<b>TOTAL</b>	<b>69.600</b>

Nr. crt	<b>2.4.2.2. Granturi/proiecte castigate prin competitie, ca Membru in echipa, nationale:</b> Director proiect, Responsabili parteneri, Autori (candidatul subliniat), Titlu proiect (si acronim), Tip grant si cod proiect, Autoritatea contractanta, Beneficiar, Perioada derularii	Perioada	Suma totala (lei)	Nr. ani	<b>Kpi</b>
---------	---	----------	-------------------	---------	------------

Kpi = 2\*ani de desfasurare

1	Scale-free modeling and optimization techniques for control of complex networks – ScaleFreeNet, Proiect PNIII-P4-ID-PCE-2016-0731, desfășurat prin UEFISCDI, 2017-2019. (Director: Prof. Ion Necoară)	2017-2019		2	<b>4.000</b>
2	<i>Solutie pentru INtegrarea eficienta a centralelor eOliene si FotoVoltaice in sistemul energieTic natiONal – INOVATION</i> . Proiect PN-III-CERC-CO-PTE-2016 desfășurat prin CNCS, 2016-2018. (Responsabil UPB: Prof. Radu Dobrescu	2016-2018		2	<b>4.000</b>
3	<i>Rețele de distribuție active. Identificarea parametrilor și analiza funcțiilor utilizând sisteme de măsurare sincronizate (Active distribution networks. Parameters identification and function analysis using synchronized measurement systems)</i> , Proiect PN-II-ID-PCE-2011-3-0693 desfășurat prin CNCS (Director de proiect: Prof.dr.ing. Mihaela Albu).	2011-2012		2	<b>4.000</b>
4	<i>Program Strategic pentru promovarea Inovării în Servicii prin Educație deschisă, continuă</i> (INSEED), Proiect POSDRU/86/1.2./S/5774 cofinanțat din Fondul Social European prin Programul Operațional Sectorial Dezvoltarea Resurselor Umane 2007-2013 (Director de proiect: Prof.dr.ing. Theodor Borangiu).	2017-2013		1	<b>2.000</b>
5	<i>Advanced measurement solutions and parameter estimation techniques for active distribution networks</i> , TAMPERE, Grant CNCSIS IDEI 1402, 2009-2011 (Director de proiect: Prof.dr.ing. Mihaela Albu).	2009-2011		2	<b>4.000</b>
6	<i>Surse regenerabile de energie și dezvoltare durabilă (PREDUR)</i> Proiect de cercetare dezvoltare prin CNCSIS – Consiliul Național al Cercetării Științifice din Învățământul Superior, Programul CEEX, 2006-2008 (Director de proiect: Prof.dr.ing. Adrian Badea).	2006-2008		2	<b>4.000</b>
7	DCNET, <i>Rețele de distribuție de curent continuu pentru aplicații industriale</i> , Proiect de cercetare CNCSIS, GR 194 / 07.06.2006, 2006-2009 (Director de proiect: Prof.dr.ing. Mihaela Albu).	2006-2009		2	<b>4.000</b>
8	<i>Microrețele de tensiune continuă pentru integrarea optimală a surselor distribuite de energie – DCiDER</i> , Proiect de cercetare dezvoltare cu MEdC – Autoritatea Națională pentru Cercetare Științifică, Programul CEEX, Modulul 1: Proiecte de Cercetare – Dezvoltare Complexe, Cod PC-D06-PT02-838, 2005-2007 (Director de proiect: Prof.dr.ing. Mihaela Albu).	2005-2007		2	<b>4.000</b>
9	<i>Studiu privind soluții “SMARTGRID” pentru creșterea capacității SEN de integrare a CEE prin transportul energiei electrice utilizând rețeaua supergrid</i> , Contract de cercetare nr. 213/ 3.09.2012, cu S.C. Tractebel Engineering S.A., în cadrul contractului de cercetare nr. C269/29.08.2012 cu C.N. Transelectrica S.A., 2012-2013. (Responsabil UPB: Prof. Mircea Eremia)	2012-2013		1	<b>2.000</b>
10	<i>Studiu privind mijloacele necesare pentru reglajul tensiunii/puterii reactive in SEN – perspectiva pe 5 ani</i> , Contract de cercetare elaborat pentru C.N. TRANSELECTRICA S.A., 2010-2011. (Director: Prof. Mircea Eremia)	2010-2011		1	<b>2.000</b>

11	<i>Studiu de caz privind utilizarea dispozitivelor FACTS într-o zonă din RET</i> , Contract de cercetare științifică nr. C239/01.11.2007 cu C.N. TRANSELECTRICA S.A., 2007-2008. (Director: Prof. Mircea Eremia)	2007-2008		1	<b>2.000</b>
12	<i>Cercetări privind dezvoltarea durabilă a sistemelor electroenergetice în contextul introducerii pieței de energie electrică și a generării distribuite</i> , Grant național de cercetare nr. 2159/21.10.2004 prin RELANSIN, 2004-2006. (Director: Prof. Mircea Eremia)	2004-2006		2	<b>4.000</b>

<b>TOTAL</b>	<b>40.000</b>
--------------	---------------



## 2.5. Contracte de cercetare/consultanta (valoare echivalenta de minim 2 000 Euro)

Nr. crt	<b>2.5.1. Contracte ca Director/Responsabil partener:</b> Director proiect, Titlu proiect, Nr. contract, Beneficiar, Perioada derularii	Perioada	Suma totala (echivalentul in Euro)	Nr. ani	Kpi
1	Smart Micro Grid Controller, Contract de cercetare Nr.6 / 30.03.2020 pentru	2020	5000	0.5	<b>2.500</b>
2	Studiu privind integrarea Centralei Electrice Fotovoltaice Gătaia de 44 MW și impactul asupra funcționării rețelelor electrice de transport și distribuție, Contract elaborat pentru S.C. ELMET ENERGIE S.R.L., 2015. (responsabil din partea UPB)	2015	2000	1	<b>5.000</b>
3	Studiu privind creșterea siguranței în funcționare a rețelelor electrice de înaltă tensiune în zona Tulcea: fezabilitatea trecerii LEA 400 kV Isaccea - Tulcea Vest de la simplu circuit la dublu circuit. Contract de cercetare nr. 485/26.02.2015 în perteneriat cu SC Energy Design & Consulting SRL, pentru ST Constanța (responsabil din partea UPB)	2015		1	<b>5.000</b>
3					<b>0.000</b>
				<b>TOTAL</b>	<b>12.500</b>

Kpi = 5\*ani

Nr. crt	<b>2.5.2. Contracte ca Membru in echipa:</b> Director proiect, Autori (candidatul subliniat), Titlu proiect, Nr. contract, Beneficiar, Perioada derularii	Perioada	Suma totala (echivalentul in Euro)	Nr. ani	Kpi
1	<i>Racordarea la sistemul Electroenergetic a centralei eoliene Chirnogeni, Jud. Constanța</i> , Beneficiar: S.C. EP Wind Project (ROM) SIX SRL, 2009.	2009		0.5	<b>1.000</b>
2	<i>Analiza regimurilor de funcționare a rețelei electrice de distribuție din zona orașului Moreni</i> , Contract de cercetare nr. 713/05.09.2006 cu S.D.F.E.E. Electrica Muntenia Nord, 2006.	2006		0.5	<b>1.000</b>
2	<i>Influențe ale producției de energie electrică distribuită asupra rețelelor electrice de distribuție. analiză și studiu de caz</i> , Contract de cercetare științifică nr. 352/2004 cu ELECTRICA S.A. (Director de proiect Conf.dr.ing. Ion Triștiu).	2004		1	<b>2.000</b>
3	<i>Studiu privind îmbunătățirea funcționării rețelei electrice de distribuție a municipiului Suceava prin reconfigurare</i> , Contract de cercetare nr. 22/25.11.2005 cu E.ON Moldova SA – S.D.F.E.E. Suceava, 2005 (Director de proiect Conf.dr.ing. Ion Triștiu).	2005		1	<b>2.000</b>
				<b>TOTAL</b>	<b>6.000</b>

Kpi = 2\*ani de desfasurare

**3.1. Citări in reviste WOS si volumele conferintelor WOS (se exclud autocitarile; lucrari citate: articol de revista, conferinta, carte, teza)**

Nr. citari	<b>Lucrearea citata:</b> Autori, Titlu lucrare citata, date de identificare lucrare (dupa caz, ca la A1 sau A2), Anul	Anul	Nr. autori ai art. citat
	Mircea Eremia, <b>Lucian Toma</b> , Mihai Sănduleac - <i>The Smart City Concept in the 21st Century</i> , Procedia Engineering, Volume 181, 2017, Pages 12-19, <a href="http://www.sciencedirect.com/science/article/pii/S1877705817309402">http://www.sciencedirect.com/science/article/pii/S1877705817309402</a> , DOI: <a href="https://doi.org/10.1016/j.proeng.2017.02.357">https://doi.org/10.1016/j.proeng.2017.02.357</a> , WOS : 000404612700002	2017	
1			3
2			3
3			3
4			3
5			3

6			3
7			3
8			3
9			3
10			3
11			3
12			3
13			3
14			3
15			3
16			3

17			3
18			3
19			3
20			3
21			3
22			3
23			3
24			3
25	<b>Lucian Toma</b> , Mihai Sanduleac, Stefan Andrei Baltac, Francesco Arrigo, Andrea Mazza, Ettore Bompard, Aysar Musa, Antonello Monti - On the Virtual Inertia Provision by BESS in Low Inertia Power Systems, IEEE International Energy Conference, ENERGYCON 2018, Limassol, Cipru, 3-7 iunie 2018. WOS:000465417100022	2018	8
26			8

27			8
28			8
29			8
30			8
31			8
32			8
33			8
34			8
35	Mihai Sanduleac, G. Lipari, A. Monti, A. Volukidis, G. Zanneto, A. Corsi, <b>L. Toma</b> , G. Fiorentino, D. Federenciuc, <i>Next Generation Real-Time Smart Meters for ICT Based Assessment of Grid Data Inconsistencies</i> , <i>Energies</i> 2017, 10(7), 857; doi:10.3390/en10070857, WOS : 000406700200028	2017	9

36			9
37	Mihai Sanduleac, <b>Lucian Toma</b> , Mircea Eremia, Irina Ciornei , Constantin Bulac, Ion Tristiu, Andreea Iantoc, João F. Martins, Vitor Fernão Pires, <i>On the Electrostatic Inertia in Microgrids with Inverter-Based Generation Only-An Analysis on Dynamic Stability</i> , Energies, Volume: 12, Issue: 17, DOI: 10.3390/en12173274, WOS:000486860500071	2019	9
38	<b>Lucian Toma</b> , Ion Triștiu, Constantin Bulac, Andreea-Georgiana Neagoe-Ștefana – Optimal generation scheduling strategy in a microgrid, Proceedings of IEEE Transportation Electrification Conference and Expo Asia-Pacific (ITEC-BUSAN 2016), Busan, Coreea de Sud, pag. 491-496, 1-4 iunie 2016. WOS:000389514300096 ISSN: 2693-3586	2016	4
39			4
40			4
41			4
42			4

<b>Articolul ISI in care se afla citarea:</b> Autori, Titlu articol ISI, Revista sau Conferinta (FI - factorul de impact/ <b>2019</b> ; ISSN), Localitate+Tara+Perioada desfasurarii in cazul conferintei, volum(numar) revista/proceedings, pp. NX- NY (pagini articol de la NX pana la NY), Anul	Anul	FI/2019 al revistei in care se face citarea	<b>Kpi</b>
Alberto Cerezo-Narváez, José-María Piñero-Vilela, Enrique-Ángel Rodríguez-Jara, Manuel Otero-Mateo, Andrés Pastor-Fernández, Pablo Ballesteros-Pérez, Energy, emissions and economic impact of the new nZEB regulatory framework on residential buildings renovation: Case study in southern Spain, Journal of Building Engineering, Volume 42, 2021, 103054, ISSN 2352-7102, <a href="https://doi.org/10.1016/j.jobe.2021.103054">https://doi.org/10.1016/j.jobe.2021.103054</a> . ( <a href="https://www.sciencedirect.com/science/article/pii/S2352710221009128">https://www.sciencedirect.com/science/article/pii/S2352710221009128</a> ), WOS:000689233900003	2021	5.318	<b>1.667</b>
Janoskova, P.; Stofkova, K.R.; Kovacikova, M.; Stofkova, J.; Kovacikova, K. The Concept of a Smart City Communication in the Form of an Urban Mobile Application. Sustainability 2021, 13, 9703. <a href="https://doi.org/10.3390/su13179703">https://doi.org/10.3390/su13179703</a> WOS:000694488800001	2021	3.251	<b>1.667</b>
Cristina Del-Real, Chandra Ward & Mina Sartipi (2021) What do people want in a smart city? Exploring the stakeholders' opinions, priorities and perceived barriers in a medium-sized city in the United States, International Journal of Urban Sciences, DOI: 10.1080/12265934.2021.1968939 WOS:000686100000001	2021	2.242	<b>1.667</b>
Irina F.B. Braga, Fernando A.F. Ferreira, João J.M. Ferreira, Ricardo J.C. Correia, Leandro F. Pereira, Pedro F. Falcão, A DEMATEL analysis of smart city determinants, Technology in Society, Volume 66, 2021, 101687, ISSN 0160-791X, <a href="https://doi.org/10.1016/j.techsoc.2021.101687">https://doi.org/10.1016/j.techsoc.2021.101687</a> . ( <a href="https://www.sciencedirect.com/science/article/pii/S0160791X21001627">https://www.sciencedirect.com/science/article/pii/S0160791X21001627</a> ) WOS:000684566400005	2021	4.192	<b>1.667</b>
Marzouki, A.; Chouikh, A.; Mellouli, S.; Haddad, R. From Sustainable Development Goals to Sustainable Cities: A Social Media Analysis for Policy-Making Decision. Sustainability 2021, 13, 8136. <a href="https://doi.org/10.3390/su13158136">https://doi.org/10.3390/su13158136</a> WOS:000682247500001	2021	3.251	<b>1.667</b>

Kpi = 5/nr  
 autori ai  
 art.citat

Taratori, R.; Rodriguez-Fiscal, P.; Pacho, M.A.; Koutra, S.; Pareja-Eastaway, M.; Thomas, D. Unveiling the Evolution of Innovation Ecosystems: An Analysis of Triple, Quadruple, and Quintuple Helix Model Innovation Systems in European Case Studies. <i>Sustainability</i> 2021, 13, 7582. <a href="https://doi.org/10.3390/su13147582">https://doi.org/10.3390/su13147582</a> WOS:000677028400001	2021	3.251	<b>1.667</b>
Nasif, A.; Othman, Z.A.; Sani, N.S. The Deep Learning Solutions on Lossless Compression Methods for Alleviating Data Load on IoT Nodes in Smart Cities. <i>Sensors</i> 2021, 21, 4223. <a href="https://doi.org/10.3390/s21124223">https://doi.org/10.3390/s21124223</a> WOS:000666339300001	2021	3.576	<b>1.667</b>
Sigmund Loland (2021) The poetics of everyday movement: human movement ecology and urban walking, <i>Journal of the Philosophy of Sport</i> , 48:2, 219-234, DOI: 10.1080/00948705.2021.1915148 WOS:000641772100001	2021	1.022	<b>1.667</b>
Chakraborty, S., Ghosh, S., Agarwal, S. et al. An integrated performance evaluation approach for the Indian smart cities. <i>OPSEARCH</i> (2021). <a href="https://doi.org/10.1007/s12597-021-00527-3">https://doi.org/10.1007/s12597-021-00527-3</a> WOS:000631477000001	2021		<b>1.667</b>
The 'Smart city' concept and its implementors: On the way to the information control in Volgograd Russia, Mitrofanova, I. V.; Ivanova, T. B.; Kleitman, E. V.; Mkrтчan, E. R., <i>Regional Statistics</i> ; 11(1):1-12, 2021. WOS:000613906400007	2021		<b>1.667</b>
J. Yang, Y. Kwon and D. Kim, "Regional Smart City Development Focus: The South Korean National Strategic Smart City Program," in <i>IEEE Access</i> , vol. 9, pp. 7193-7210, 2021, doi: 10.1109/ACCESS.2020.3047139. WOS:000608226500001	2021	3.367	<b>1.667</b>
Krzysztof Kowalik, Social media as a distribution of emotions, not participation. Polish exploratory study in the EU smart city communication context, <i>Cities</i> , Volume 108, 2021, 102995, ISSN 0264-2751, <a href="https://doi.org/10.1016/j.cities.2020.102995">https://doi.org/10.1016/j.cities.2020.102995</a> . ( <a href="https://www.sciencedirect.com/science/article/pii/S0264275120313433">https://www.sciencedirect.com/science/article/pii/S0264275120313433</a> ) WOS:000597225500006	2021	5.835	<b>1.667</b>
Daniel G.Costa, Felipe P.de Oliveira, A prioritization approach for optimization of multiple concurrent sensing applications in smart cities, <i>Future Generation Computer Systems</i> , Volume 108, July 2020, Pages 228-243, <a href="https://www.sciencedirect.com/science/article/pii/S0167739X18329455">https://www.sciencedirect.com/science/article/pii/S0167739X18329455</a> , WOS:000528199900016	2020	6.125	<b>1.667</b>
Mateusz Tomal, Moving towards a Smarter Housing Market: The Example of Poland, <i>Sustainability</i> 2020, 12(2), 683; <a href="https://doi.org/10.3390/su12020683">https://doi.org/10.3390/su12020683</a> , WOS:000516824600241	2020	2.576	<b>1.667</b>
Mariana-Daniela González-Zamar, Emilio Abad-Segura, Esteban Vázquez-Cano and Eloy López-Meneses, IoT Technology Applications-Based Smart Cities: Research Analysis, <i>Electronics</i> 2020, 9(8), 1246; <a href="https://doi.org/10.3390/electronics9081246">https://doi.org/10.3390/electronics9081246</a> , WOS:000567300000001	2020		<b>1.667</b>
Johannes Stübinger and Lucas Schneider, Understanding Smart City—A Data-Driven Literature Review, <i>Sustainability</i> 2020, 12(20), 8460; <a href="https://doi.org/10.3390/su12208460">https://doi.org/10.3390/su12208460</a>	2020	2.576	<b>1.667</b>



Can Bıyık, Smart Cities in Turkey: Approaches, Advances and Applications with Greater Consideration for Future Urban Transport Development, <i>Energies</i> 2019, 12(12), 2308; <a href="https://doi.org/10.3390/en12122308">https://doi.org/10.3390/en12122308</a> , WOS:000473821400081	2019		<b>1.667</b>
Jaime Chena, Eduardo Cañete, Daniel Garridoa, Manuel Díaz, Krzysztof Piotrowski, PICO: A platform independent communications middleware for heterogeneous devices in smart grids, <i>Computer Standards &amp; Interfaces</i> , Volume 65, July 2019, Pages 1-14, <a href="https://www.sciencedirect.com/science/article/pii/S0920548918300357">https://www.sciencedirect.com/science/article/pii/S0920548918300357</a> , WOS:000470341500001	2019	2.809	<b>1.667</b>
Elif Oğuz and Ayşe Eylül Şentürk, Selection of the Most Sustainable Renewable Energy System for Bozcaada Island: Wind vs. Photovoltaic, <i>Sustainability</i> 2019, 11(15), 4098; <a href="https://doi.org/10.3390/su11154098">https://doi.org/10.3390/su11154098</a> , WOS:000485230200103	2019	2.576	<b>1.667</b>
Li Zhao, Zhi-ying Tang and Xin Zou, Mapping the Knowledge Domain of Smart-City Research: A Bibliometric and Scientometric Analysis , <i>Sustainability</i> 2019, 11(23), 6648; <a href="https://doi.org/10.3390/su11236648">https://doi.org/10.3390/su11236648</a> , WOS:000508186400120	2019	2.576	<b>1.667</b>
Truong Thanh Trung, Smart City and Modelling of Its Unorganized Flows Using Cell Machines, <i>Civil Engineering Journal</i> , Vol. 6, No. 5, May, 2020, <a href="https://core.ac.uk/download/pdf/327120638.pdf">https://core.ac.uk/download/pdf/327120638.pdf</a> , WOS:000562402600001	2020		<b>1.667</b>
Smart City: Modeling Key Indicators in Serbia Using IT2FS, Mimica R. Milošević, Dušan M. Milošević, Dragan M. Stević and Ana D. Stanojević , <i>Sustainability</i> 2019, 11(13), 3536; <a href="https://doi.org/10.3390/su11133536">https://doi.org/10.3390/su11133536</a> , WOS:000477051900041	2019	2.576	<b>1.667</b>
L. M. Fernández-Ahumada 1 , J. Ramírez-Faz, R. López-Luque, A. Márquez-García and M. Varo-Martínez, A Methodology for Buildings Access to Solar Radiation in Sustainable Cities, <i>Sustainability</i> 2019, 11(23), 6596; <a href="https://doi.org/10.3390/su11236596">https://doi.org/10.3390/su11236596</a> , WOS:000508186400068	2019	2.576	<b>1.667</b>
László GERE, AN INTRODUCTION AND CRITICAL ASSESSMENT OF SMART CITY DEVELOPMENTS, <i>DETUROPE – THE CENTRAL EUROPEAN JOURNAL OF REGIONAL DEVELOPMENT AND TOURISM</i> Vol. 10 Issue 3 2018, ISSN 1821-2506 , WOS:000457551200004	2018		<b>1.667</b>
Pazmiño, I.; Martinez, S.; Ochoa, D. Analysis of Control Strategies Based on Virtual Inertia for the Improvement of Frequency Stability in an Islanded Grid with Wind Generators and Battery Energy Storage Systems. <i>Energies</i> 2021, 14, 698. <a href="https://doi.org/10.3390/en14030698">https://doi.org/10.3390/en14030698</a>	2021		<b>0.625</b>
D. O. Sidea, I. I. Picioroaga and C. Bulac, "Optimal Battery Energy Storage System Scheduling Based on Mutation-Improved Grey Wolf Optimizer Using GPU-Accelerated Load Flow in Active Distribution Networks," in <i>IEEE Access</i> , vol. 9, pp. 13922-13937, 2021, doi: 10.1109/ACCESS.2021.3051452.	2021		<b>0.625</b>

Hongesombut, K.; Punyakunlaset, S.; Romphochai, S. Under Frequency Protection Enhancement of an Islanded Active Distribution Network Using a Virtual Inertia-Controlled-Battery Energy Storage System. Sustainability 2021, 13, 484. <a href="https://doi.org/10.3390/su13020484">https://doi.org/10.3390/su13020484</a>	2021		<b>0.625</b>
Mexis, I.; Todeschini, G. Battery Energy Storage Systems in the United Kingdom: A Review of Current State-of-the-Art and Future Applications. Energies 2020, 13, 3616. <a href="https://doi.org/10.3390/en13143616">https://doi.org/10.3390/en13143616</a>	2020		<b>0.625</b>
Datta, U.; Kalam, A.; Shi, J. Battery Energy Storage System for Aggregated Inertia-Droop Control and a Novel Frequency Dependent State-of-Charge Recovery. Energies 2020, 13, 2003. <a href="https://doi.org/10.3390/en13082003">https://doi.org/10.3390/en13082003</a>	2020		<b>0.625</b>
Umer Akram, Mithulananthan Nadarajah, Rakibuzzaman Shah, Federico Milano, A review on rapid responsive energy storage technologies for frequency regulation in modern power systems, Renewable and Sustainable Energy Reviews, Volume 120, 2020, 109626, ISSN 1364-0321, <a href="https://doi.org/10.1016/j.rser.2019.109626">https://doi.org/10.1016/j.rser.2019.109626</a> .	2020		<b>0.625</b>
A. Teawnarong and P. Chirapongsananurak, "Providing Frequency Response in Isolated Microgrids Using Battery Energy Storage Systems," 2020 8th International Electrical Engineering Congress (iEECON), Chiang Mai, Thailand, 2020, pp. 1-4, doi: 10.1109/iEECON48109.2020.233042.	2020		<b>0.625</b>
A. Kamrul Hasan, M. H. Haque and S. M. Aziz, "Application of Battery Energy Storage Systems to Enhance Power System Inertia," 2019 29th Australasian Universities Power Engineering Conference (AUPEC), Nadi, Fiji, 2019, pp. 1-6, doi: 10.1109/AUPEC48547.2019.211941.	2019		<b>0.625</b>
P. A. Tedjoe, C. Z. Ally and E. C. W. de Jong, "Analysis of battery-based virtual inertia & primary frequency response on improving frequency dynamics in an island hydro-diesel-PV ac-grid," 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, 2019, pp. 1-7, doi: 10.1109/RTUCON48111.2019.8982338.	2019		<b>0.625</b>
Álvaro Ortega, Federico Milano, Combined Frequency and RoCoF Control of Converter-Interfaced Energy Storage Systems, IFAC-PapersOnLine, Volume 52, Issue 4, 2019, Pages 240-245, ISSN 2405-8963, <a href="https://doi.org/10.1016/j.ifacol.2019.08.198">https://doi.org/10.1016/j.ifacol.2019.08.198</a> .	2019		<b>0.625</b>
Collaborative Optimal Pricing and Day-Ahead and Intra-Day Integrative Dispatch of the Active Distribution Network with Multi-Type Active Loads, Chen, Chong; Zhou, Xuan; Yang, Xiaowei; et al., ENERGIES Volume: 11 Issue: 4 Article Number: 959 Published: APR 2018 , WOS:000434703400270	2018	2.703	<b>0.556</b>

Demand-Side Energy Management Based on Nonconvex Optimization in Smart Grid, Ma, Kai; Bai, Yege; Yang, Jie; et al., ENERGIES Volume: 10 Issue: 10 Article Number: 1538 Published: OCT 2017 , WOS:000414578400093	2018	2.703	<b>0.556</b>
De Silva, H. H. H.; Jayamaha, D. K. J. S.; Lidula, N. W. A., Review on design and control of solid state transformer based microgrids, AIMS ENERGY, Volume: 7 Issue: 6 Pages: 901-923 , DOI: 10.3934/energy.2019.6.901 , WOS:000519562600001	2019		<b>0.556</b>
S. Surender Reddy, Optimal scheduling of thermal-wind-solar power system with storage, Renewable Energy, Volume 101, 2017, Pages 1357-1368, ISSN 0960-1481, <a href="https://doi.org/10.1016/j.renene.2016.10.022">https://doi.org/10.1016/j.renene.2016.10.022</a> .	2017		<b>1.250</b>
A. Labella, D. Mestriner, F. Pampararo and R. Procopio, "Measurement campaign and experimental results of an islanded microgrid," 2017 International Conference on ENERGY and ENVIRONMENT (CIEM), Bucharest, 2017, pp. 31-35, doi: 10.1109/CIEM.2017.8120783.	2017		<b>1.250</b>
Lucian Ioan Dulău, Dorin Bică, Optimization of generation cost in a microgrid, Procedia Manufacturing, Volume 22, 2018, Pages 703-708, ISSN 2351-9789, <a href="https://doi.org/10.1016/j.promfg.2018.03.101">https://doi.org/10.1016/j.promfg.2018.03.101</a> .	2018		<b>1.250</b>
Sun, L.; Zhang, N.; Li, N.; Song, Z.-r.; Li, W.-d. A Gini Coefficient-Based Impartial and Open Dispatching Model. Energies 2020, 13, 3146. <a href="https://doi.org/10.3390/en13123146">https://doi.org/10.3390/en13123146</a>	2020		<b>1.250</b>
Abdullah M.N., Mohd Azlan N.F.A., Dahalan W.M., Naswan N.F., Hamdan R., Ismail M.N. (2020) Optimal Power Generation in Microgrid System Using Particle Swarm Optimization. In: Saw C., Woo T., a/l Karam Singh S., Asmara Bin Salim D. (eds) Advancement in Emerging Technologies and Engineering Applications. Lecture Notes in Mechanical Engineering. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-15-0002-2_33">https://doi.org/10.1007/978-981-15-0002-2_33</a>	2020		<b>1.250</b>
		<b>TOTAL</b>	<b>54.167</b>

**3.2. Citări în reviste și volumele conferințelor BDI (se exclud autocitările; lucrări citate: articol de revista, conferința, carte, teză)**

Nr. citari	<b>Lucrarea citata:</b> Autori, Titlu lucrare citata, date de identificare lucrare (dupa caz, ca la A1 sau A2), Anul	Anul	Nr. autori ai art. citat
1	Mihai Sănduleac, Mircea Eremia, <b>Lucian Toma</b> , Paul Borza - <i>Integrating the Electrical Vehicles in the Smart Grid through Unbundled Smart Metering and multi-objective Virtual Power Plants</i> , 2011 2nd IEEE PES International Conference and Exhibition on Innovative Smart Grid Technologies (IEEE PES ISGT Europe 2011), Manchester, December 2011, DOI: 10.1109/ISGTEurope.2011.6162786, INSPEC Accession Number: 1257793	2011	4
2			4
3	Ioana Pisiță, Constantin Bulac, Lucian Toma, Mircea Eremia – Optimal SVC Placement in Electric Power Systems using a Genetic Algorithms based Method, Proceedings of 2009 IEEE Bucharest PowerTech, București, pag. 1-6, 28 iunie – 2 iulie, 2009, organizator Universitatea POLITEHNICA din București, Editor IEEE, ISBN 978-1-4244-2234-0. (indexat WOS Proceedings WOS:000276834600115 și SCOPUS art. nr. 5281841).	2007	4
4			4
5			4

6			4
7			4
8			4
9			4
10			4
11			4
12			4
13			4
14			4
15			4
16			4
17			4

18			4
19			4
20			4
21			4
22			4
23			4
24			4
25			4
26			4
27			4
28			4
29			4

30			4
31			4
32			4
33			4
34			4
35			4
36			4
37			4
38			4
39			4
40			4

41			4
42			4
43			4
44			4
45			4
46			4
47			4
48			4
49			4
50			4



51			4
52			4

<b>Articolul BDI in care se afla citarea:</b> Autori, Titlu articol BDI, Revista sau Conferinta (BDI in care este indexat articolul; ISSN), Localitate+Tara+Perioada desfasurarii in cazul conferintei, volum(numar) revista/proceedings, pp. NX- NY (pagini articol de la NX pana la NY), Anul	Anul	BDI in care este articolul in care se face citarea	Kpi
Harun Turker; Adrian Radu; S. Bacha; D. Frey; J. Richer; P. Lebrusq, Optimal charge control of electric vehicles in parking stations for cost minimization in V2G concept, pp. 945-951, 2014, DOI: 10.1109/ICRERA.2014.7016525	2014	IEEE Xplore	<b>0.750</b>
Jeremy Pitt, Ada Diaconescu, Aikaterini Bourazeri, "Democratisation of the SmartGrid and the active participation of prosumers", Industrial Electronics (ISIE) 2017 IEEE 26th International Symposium on, pp. 1707-1714, 2017	2017	IEEE Xplore	<b>0.750</b>
Acero, J. F. C., et al. Power Quality Improvement with SVC in a Power System of 220kV, 2020. SCOPUS, www.scopus.com, doi:10.1109/PowerAfrica49420.2020.9219984.		SCOPUS	<b>0.750</b>
Alvarez-Alvarado, M. S., C. D. Rodríguez-Gallegos, and D. Jayaweera. "Optimal Planning and Operation of Static VAR Compensators in a Distribution System with Non-Linear Loads." IET Generation, Transmission and Distribution, vol. 12, no. 15, 2018, pp. 3726-3735. SCOPUS, www.scopus.com, doi:10.1049/iet-gtd.2017.1747.		SCOPUS	<b>0.750</b>
Amini, M. H., et al. Optimal SVC Allocation in Power Systems for Loss Minimization and Voltage Deviation Reduction, vol. 145, 2018. SCOPUS, www.scopus.com, doi:10.1007/978-3-319-74412-4_12.		SCOPUS	<b>0.750</b>

Kpi =  
3/nr  
autori  
ai  
art.cita  
t

Amrane, Y., M. Boudour, and M. Belazzoug. Optimal Reactive Power Planning Based on Particle Swarm Applied to the Algerian Electrical Power System, 2013. SCOPUS, www.scopus.com, doi:10.1109/ICoSC.2013.6750950.		SCOPUS	<b>0.750</b>
Baby, A., J. Thomas, and T. Joseph. Analysis of Voltage Collapse in the Kerala Power Grids, 2013. SCOPUS, www.scopus.com, doi:10.1109/ICCCI.2013.6466267.		SCOPUS	<b>0.750</b>
Baby, A., J. Thomas, and J. Tibin. Analysis of Voltage Collapse in the Kerala Power Grids using SVC, UPFC & SSSC, 2013. SCOPUS, www.scopus.com, doi:10.1109/iMac4s.2013.6526409.		SCOPUS	<b>0.750</b>
Bao, H., and G. Fang. "A New Method of Electrical Distance Calculation and its Applications used the Equivalent Transmission Impedance Method." Dianwang Jishu/Power System Technology, vol. 43, no. 1, 2019, pp. 244-250. SCOPUS, www.scopus.com, doi:10.13335/j.1000-3673.pst.2017.2892.		SCOPUS	<b>0.750</b>
Biswas, S., and S. K. Goswami. Optimal Allocation of Distributed Generation Minimizing Loss and Voltage Sag Problem-using Genetic Algorithm, vol. 1298, 2010. SCOPUS, www.scopus.com, doi:10.1063/1.3516342.		SCOPUS	<b>0.750</b>
De Koster, O. A. C., and J. A. Domínguez-Navarro. "Multi-Objective Tabu Search for the Location and Sizing of Multiple Types of FACTS and DG in Electrical Networks." Energies, vol. 13, no. 11, 2020. SCOPUS, www.scopus.com, doi:10.3390/en13112722.		SCOPUS	<b>0.750</b>
Dixit, S., L. Srivastava, and G. Agnihotri. Optimal Placement of SVC for Minimizing Power Loss and Improving Voltage Profile using GA, 2014. SCOPUS, www.scopus.com, doi:10.1109/ICICT.2014.6781264.		SCOPUS	<b>0.750</b>
Dubey, R., S. Dixit, and G. Agnihotri. Optimal Placement of Shunt Facts Devices using Heuristic Optimization Techniques: An Overview, 2014. SCOPUS, www.scopus.com, doi:10.1109/CSNT.2014.109.		SCOPUS	<b>0.750</b>
Gaur, D., and L. Mathew. Optimal Placement of FACTS Controllers using GA Based Approach, 2018. SCOPUS, www.scopus.com, doi:10.1109/CTCEEC.2017.8455033.		SCOPUS	<b>0.750</b>
---. . Optimal Placement of FACTS Devices using Optimization Techniques: A Review, vol. 331, 2018. SCOPUS, www.scopus.com, doi:10.1088/1757-899X/331/1/012023.		SCOPUS	<b>0.750</b>
Gupta, A., and P. R. Sharma. "Fuzzy Based Multi-Objective Evolutionary Algorithm for Optimal Location of FACTS Devices in a Power System." International Review on Modelling and Simulations, vol. 6, no. 4, 2013, pp. 1240-1247. SCOPUS, www.scopus.com.		SCOPUS	<b>0.750</b>
Hasbullah, et al. Optimization Placement of Static Var Compensator (Svc) on Electrical Transmission System 150 kV Based on Smart Computation, vol. 306, 2018. SCOPUS, www.scopus.com, doi:10.1088/1757-899X/306/1/012056.		SCOPUS	<b>0.750</b>

Jordehi, A. R., and J. Jasni. Approaches for FACTS Optimization Problem in Power Systems, 2012. SCOPUS, www.scopus.com, doi:10.1109/PEOCO.2012.6230889.		SCOPUS	<b>0.750</b>
Karthika Vigneswari, B., et al. "Real Power Loss Reduction in Distribution System by Optimal Placement of Distributed Generation After Network Reconfiguration using Genetic Algorithm." International Review of Automatic Control, vol. 7, no. 3, 2014, pp. 294-299. SCOPUS, www.scopus.com.		SCOPUS	<b>0.750</b>
---. . "Reduction in Distribution Systems using Harmony Search Algorithm (HSA)." International Journal of Applied Engineering Research, vol. 9, no. 17, 2014, pp. 3649-3662. SCOPUS, www.scopus.com.		SCOPUS	<b>0.750</b>
Kecojevic, K., et al. Minimizing Active Power Losses by Incorporating Static Var Compensator (SVC) Device into the Power System, 2020. SCOPUS, www.scopus.com, doi:10.1109/IT48810.2020.9070623.		SCOPUS	<b>0.750</b>
Koltun, M., and K. Raahemifar. Optimal Placement and Sizing of STATCOMs in Power Systems using GHS Algorithm, 2017. SCOPUS, www.scopus.com, doi:10.1109/CCECE.2017.7946772.		SCOPUS	<b>0.750</b>
Kowalak, R., et al. "Computer-Aided Analysis of Resonance Risk in Power System with Static Var Compensators." Przegląd Elektrotechniczny, vol. 92, no. 3, 2016, pp. 20-25. SCOPUS, www.scopus.com, doi:10.15199/48.2016.03.05.		SCOPUS	<b>0.750</b>
---. . Influence of Shunt Compensation with SVC Devices on Resonance Risk in Power Systems, 2015. SCOPUS, www.scopus.com, doi:10.1109/ISNCC.2015.7174685.		SCOPUS	<b>0.750</b>
Kulaev, I., and Y. Kubarkov. Regulation of Voltage and Optimization of Power Losses in Active-Adaptive Networks, 2018. SCOPUS, www.scopus.com, doi:10.1109/ICIEAM.2018.8728712.		SCOPUS	<b>0.750</b>
Li, S., and H. Bao. The Method of Complex Power Increment Based on Cauchy Riemann Condition, vol. 2016-September, 2016. SCOPUS, www.scopus.com, doi:10.1109/CICED.2016.7576292.		SCOPUS	<b>0.750</b>
Malkowski, R., R. Kowalak, and J. Klucznik. SVC and Power Transformers Controllers Coordination, 2015. SCOPUS, www.scopus.com, doi:10.1109/PTC.2015.7232720.		SCOPUS	<b>0.750</b>
Mangaiyarkarasi, S. P., and T. Sree Renga Raja. "PSO Based Optimal Location and Sizing of SVC for Novel Multiobjective Voltage Stability Analysis during N - 2 Line Contingency." Archives of Electrical Engineering, vol. 63, no. 4, 2014, pp. 535-550. SCOPUS, www.scopus.com, doi:10.2478/ae-2014-0037.		SCOPUS	<b>0.750</b>
Nguyen, H. V., et al. Determining Optimal Location and Sizing of STATCOM Based on PSO Algorithm and Designing its Online ANFIS Controller for Power System Voltage Stability Enhancement, 2020. SCOPUS, www.scopus.com, doi:10.1109/GTSD50082.2020.9303124.		SCOPUS	<b>0.750</b>

Nguyen, K. P., G. Fujita, and V. N. Dieu. "Cuckoo Search Algorithm for Optimal Placement and Sizing of Static Var Compensator in Large-Scale Power Systems." <i>Journal of Artificial Intelligence and Soft Computing Research</i> , vol. 6, no. 2, 2016, pp. 59-68. SCOPUS, <a href="http://www.scopus.com">www.scopus.com</a> , doi:10.1515/jaiscr-2016-0006.		SCOPUS	<b>0.750</b>
Nguyen, K. P., G. Fujita, and V. Ngoc Dieu. Optimal Placement and Sizing of Static Var Compensator using Cuckoo Search Algorithm, 2015. SCOPUS, <a href="http://www.scopus.com">www.scopus.com</a> , doi:10.1109/CEC.2015.7256901.		SCOPUS	<b>0.750</b>
Nguyen, K. P., et al. Optimal Placement and Sizing of SVC by using various Meta-Heuristic Optimization Methods, 2014. SCOPUS, <a href="http://www.scopus.com">www.scopus.com</a> , doi:10.1109/ICPERE.2014.7067226.		SCOPUS	<b>0.750</b>
Pisica, I., C. Bulac, and M. Eremia. Optimal Distributed Generation Location and Sizing using Genetic Algorithms, 2009. SCOPUS, <a href="http://www.scopus.com">www.scopus.com</a> , doi:10.1109/ISAP.2009.5352936.		SCOPUS	<b>0.750</b>
Purwoharjono, et al. "Optimal Placement of SVC for Losses Reduction and Voltage Profile Improvement in Electrical Power System using Improved Gravitational Search Algorithm." <i>International Review of Electrical Engineering</i> , vol. 8, no. 1, 2013, pp. 329-339. SCOPUS, <a href="http://www.scopus.com">www.scopus.com</a> .		SCOPUS	<b>0.750</b>
---. . "Optimal Placement of TCSC using Linear Decreasing Inertia Weight Gravitational Search Algorithm." <i>Journal of Theoretical and Applied Information Technology</i> , vol. 47, no. 2, 2013, pp. 460-470. SCOPUS, <a href="http://www.scopus.com">www.scopus.com</a> .		SCOPUS	<b>0.750</b>
Rezaee Jordehi, A., and J. Jasni. "A Comprehensive Review on Methods for Solving FACTS Optimization Problem in Power Systems." <i>International Review of Electrical Engineering</i> , vol. 6, no. 4, 2011, pp. 1916-1926. SCOPUS, <a href="http://www.scopus.com">www.scopus.com</a> .		SCOPUS	<b>0.750</b>
---. . Heuristic Methods for Solution of FACTS Optimization Problem in Power Systems, 2011. SCOPUS, <a href="http://www.scopus.com">www.scopus.com</a> , doi:10.1109/SCORed.2011.6148703.		SCOPUS	<b>0.750</b>
Rezaie Estabragh, M., M. Mohammadian, and M. Rashidinejad. "An Application of Elitist-Based Genetic Algorithm for SVC Placement Considering Voltage Stability." <i>International Review on Modelling and Simulations</i> , vol. 3, no. 5, 2010, pp. 938-947. SCOPUS, <a href="http://www.scopus.com">www.scopus.com</a> .		SCOPUS	<b>0.750</b>
Singh, B., V. Mukherjee, and P. Tiwari. "A Survey on Impact Assessment of DG and FACTS Controllers in Power Systems." <i>Renewable and Sustainable Energy Reviews</i> , vol. 42, 2015, pp. 846-882. SCOPUS, <a href="http://www.scopus.com">www.scopus.com</a> , doi:10.1016/j.rser.2014.10.057.		SCOPUS	<b>0.750</b>
Sirjani, R. Optimal Placement and Sizing of STATCOM in Power Systems using Heuristic Optimization Techniques, vol. 90, 2014. SCOPUS, <a href="http://www.scopus.com">www.scopus.com</a> , doi:10.1007/978-981-287-281-4_13.		SCOPUS	<b>0.750</b>

Sirjani, R., and A. Mohamed. Improved Harmony Search Algorithm for Optimal Placement and Sizing of Static Var Compensators in Power Systems, 2011. SCOPUS, www.scopus.com, doi:10.1109/ICI.2011.71.		SCOPUS	<b>0.750</b>
Sirjani, R., A. Mohamed, and H. Shareef. "Comparative Study of Effectiveness of Different Var Compensation Devices in Large-Scale Power Networks." Journal of Central South University, vol. 20, no. 3, 2013, pp. 715-723. SCOPUS, www.scopus.com, doi:10.1007/s11771-013-1539-2.		SCOPUS	<b>0.750</b>
---. . "Optimal Allocation of Shunt Var Compensators in Power Systems using a Novel Global Harmony Search Algorithm." International Journal of Electrical Power and Energy Systems, vol. 43, no. 1, 2012, pp. 562-572. SCOPUS, www.scopus.com, doi:10.1016/j.ijepes.2012.05.068.		SCOPUS	<b>0.750</b>
---. . "Optimal Placement and Sizing of Shunt FACTS Devices in Power Systems using Heuristic Optimization Techniques: A Comprehensive Survey." Przegląd Elektrotechniczny, vol. 88, no. 10 B, 2012, pp. 335-341. SCOPUS, www.scopus.com.		SCOPUS	<b>0.750</b>
---. . "Optimal Placement and Sizing of Static Var Compensators in Power Systems using Improved Harmony Search Algorithm." Przegląd Elektrotechniczny, vol. 87, no. 7, 2011, pp. 214-218. SCOPUS, www.scopus.com.		SCOPUS	<b>0.750</b>
Suman, M., M. Venu Gopala Rao, and P. V. Ramana Rao. "Enhancement of Voltage Stability using Optimally Sited Static Var Compensator with Three Phase Fault." Journal of Advanced Research in Dynamical and Control Systems, vol. 10, no. 3, 2018, pp. 95-106. SCOPUS, www.scopus.com.		SCOPUS	<b>0.750</b>
Udgir, S., L. Srivastava, and M. Pandit. Optimal Placement and Sizing of SVC for Loss Minimization and Voltage Security Improvement using Differential Evolution Algorithm, 2014. SCOPUS, www.scopus.com, doi:10.1109/ICRAIE.2014.6909310.		SCOPUS	<b>0.750</b>
Vanishree, J., and V. Ramesh. "Optimization of Size and Cost of Static VAR Compensator using Dragonfly Algorithm for Voltage Profile Improvement in Power Transmission Systems." International Journal of Renewable Energy Research, vol. 8, no. 1, 2018, pp. 56-66. SCOPUS, www.scopus.com.		SCOPUS	<b>0.750</b>
Vanishree, J., V. Ramesh, and A. Verma. "Minimization of L-Index using Genetic Algorithm for Improvement of Voltage Profile in Power Systems." Indian Journal of Science and Technology, vol. 9, no. 39, 2016. SCOPUS, www.scopus.com, doi:10.17485/ijst/2016/v9i39/97984.		SCOPUS	<b>0.750</b>
Yahyazadeh, M., and H. Rezaeeye. "Optimal Placement and Sizing of Distributed Generation using Whale Optimization Algorithm Considering Voltage Stability and Voltage Profile Improvement, Power Loss and Investment Cost Reducing." Iranian Journal of Science and Technology - Transactions of Electrical Engineering, vol. 44, no. 1, 2020, pp. 227-236. SCOPUS, www.scopus.com, doi:10.1007/s40998-019-00224-4.		SCOPUS	<b>0.750</b>

Zamani, M. K. M., I. Musirin, and S. I. Suliman. "Symbiotic Organisms Search Technique for SVC Installation in Voltage Control." Indonesian Journal of Electrical Engineering and Computer Science, vol. 6, no. 2, 2017, pp. 318-329. SCOPUS, www.scopus.com, doi:10.11591/ijeecs.v6.i2.pp318-329.		SCOPUS	<b>0.750</b>
Zamani, M. K. M., et al. "Chaotic Immune Symbiotic Organisms Search for SVC Installation in Voltage Security Control." Indonesian Journal of Electrical Engineering and Computer Science, vol. 16, no. 2, 2019, pp. 623-630. SCOPUS, www.scopus.com, doi:10.11591/ijeecs.v16.i2.pp623-630.		SCOPUS	<b>0.750</b>
		<b>TOTAL</b>	<b>39.000</b>

**3.2. Prezentari invitate in plenum unor manifestari stiintifice nationale si internationale și Profesor invitat (exclusiv POS, ERASMUS)**

Nr. crt	<b>3.2.1. internationale:</b> Date de identificare ale activitatii (punctaj unic pentru fiecare activitate)	Anul sau Perioada	Kpi	<b>Kpi = 20</b>
1	<b>Lucian Toma</b> – Challenges and solutions towards green and resilient power systems, (Keynote speaker) în cadrul 13th International Conference on Electromechanical and Energy Systems 2021, Chișinău, Moldova, 7-8 Octombrie 2021.	2021	<b>20</b>	
2	<b>Lucian Toma</b> , Mihai Sănduleac – Solutions for power system stability under renewables dominated operating conditions, Tutorial (Keynote speaker) în cadrul 2021 International Conference on Applied and Theoretical Electricity, Craiova, 27-29 mai 2021.	2021	<b>20</b>	
3	Mircea Eremia, <b>Lucian Toma</b> , Alisa Manoloiu, Mihai Sănduleac – Sisteme electroenergetice performante folosind electronica de putere: de la smart grids la smart city, Tutorial în cadrul 13th Edition of WEC Central & Eastern Europe Energy Forum - FOREN 2016, World Energy Council, Costinești, Romania, 12-16 iunie 2016.	2016	<b>20</b>	
4	Profesor invitat la Universitatea Tehnică a Moldovei din Chișinău, pentru predarea modulului de curs "Rețele energetice inteligente", in anul 2015	2015	<b>20</b>	
5	Mircea Eremia, <b>Lucian Toma</b> – <i>Smart Grids: The Electrical Networks of the Future</i> , Tutorial în cadrul International Conference on Condition Monitoring, Diagnosis and Maintenance 2011, București, 19-23 Septembrie 2011.	2011	<b>20</b>	
<b>TOTAL</b>			<b>100</b>	

Nr. crt	<b>3.2.2. nationale:</b> Date de identificare ale activitatii (punctaj unic pentru fiecare activitate)	Perioada	Kpi	<b>Kpi = 5</b>
1				
2				
<b>TOTAL</b>			<b>0</b>	



**3.4. Membru in colectivele de redactie sau comitete stiintifice ale revistelor si manifestarilor stiintifice, Organizator de manifestari stiintifice, Recenzor pentru reviste si manifestari stiintifice nationale si internationale (punctajul se acorda pentru fiecare revista, manifestare stiintifica sau recenzie)**

Nr. crt	<b>3.4.1. ISI:</b> Date de identificare ale activitatii (punctajul se acorda pentru fiecare revista, manifestare stiintifica si recenzie)	Anul sau Perioada	Kpi
1	IEEE Transactions on Power Delivery - revistă		10
2	IEEE Transactions of Smart Grid - revistă		10
3	IEEE Access - revistă		10
4	IET Generation, Transmission and Distribution - revistă		10
5	IET Science Measurement and Technology - revistă		10
6	ELSEVIER Electric Power Systems Research - revistă		10
7	ELSEVIER Applied Energy - revistă		10
8	MDPI Energies - revistă		10
9	MDPI Sustainability - revistă		10
10	MDPI Resources - revistă		10
11	Buletinul UPB, Seria C - revistă		10
12	The 6th International Symposium on Electrical and Electronics Engineering, Galati, 18-20 octombrie 2019	2019	10
13	IEEE Electrical Vehicles International Conference and Show, EV2019, București, Romania, 3-4 Octombrie 2019	2019	10
14	The 11th International Symposium on ADVANCED TOPICS IN ELECTRICAL ENGINEERING, 28-30 martie 2019	2019	10
15	The 5th International Symposium on Electrical and Electronics Engineering, Galati, 20-22 octombrie 2017	2017	10
16	The 8th International Conference on Energy and Environment, Bucuresti, 19-20 octombrie 2017	2017	10
17	2015 IEEE Eindhoven PowerTech, Eindhoven - Olanda, 29 iunie - 2 iulie 2015	2015	10
18	49th International Universities Power Engineering Conference, UPEC 2014, Cluj-Napoca, România, 2-5 September 2014	2014	10
19	2013 IEEE Grenoble PowerTech, Grenoble – France, 16-20 iunie 2013	2013	10
	<b>TOTAL</b>		<b>190</b>

**Kpi = 10**

Nr. crt	<b>3.4.2. BDI:</b> Date de identificare ale activitatii (punctajul se acorda pentru fiecare revista, manifestare stiintifica si recenzie)	Anul sau Perioada	Kpi
1	2020 4th International Conference on Power and Energy Engineering (ICPEE 2020), China, Xiamen, 19-21 noiembrie 2020.	2020	6

**Kpi = 6**

2	2nd International Conference on Electronics and Electrical Engineering (IC3E 2020), November 16 - 17, 2020, Bouira, Algeria	2020	6
3	2013 12th International Conference on Environment and Electrical Engineering	2013	6
4	2012 11th International Conference on Environment and Electrical Engineering	2012	6
5	2011 10th International Conference on Environment and Electrical Engineering	2011	6
6	2006 IEEE PES Transmission & Distribution Conference and Exposition: LATIN AMERICA, 15-18 August 2006.	2006	6
7	2005 IEEE St. Petersburg PowerTech, Rusia	2005	6
8	2006 IEEE PES T&D C&E LA, Venezuela	2006	6
9	2011 Trondheim IEEE PowerTech, Norvegia	2011	6
10	2016 IEEE International Power Electronics and Motion Control Conference (PEMC)	2016	6
11	2019 MPS Cluj-Napoca	2019	6
12	2017 MPS Cluj-Napoca	2017	6
		<b>TOTAL</b>	<b>72</b>

Nr. crt	<b>3.4.3. nationale si internationale neindexate:</b> Date de identificare ale activitatii (punctajul se acorda pentru fiecare revista, manifestare stiintifica si recenzie)	Anul sau Perioada	Kpi
1	CIGRE South-East Europe Conference – RSEEC 2016, Bucuresti, 10-12 octombrie 2016	2016	3
2	CIGRE South-East Europe Conference – RSEEC 2014, Bucuresti, 8-10 octombrie 2014	2014	3
3	2013 CIGRE Conference on Condition Monitoring, Diagnosis and Maintenance: Modern Management Technology, București, 2-5 Septembrie 2013.	2013	3
4	CIGRE South-East Europe Conference – RSEEC 2012, Sibiu, Romania, 10-12 octombrie 2012	2012	3
5	International Conference on Deregulated Electricity Market Issues in South-Eastern Europe – DEMSEE, membru în Steering Committee (din 2012)	2012	3
		<b>TOTAL</b>	<b>15</b>

Kpi = 3

### 3.5. Referent in comisii de doctorat

Nr. crt	<b>3.5.1. internationale:</b> Denumire doctorand, Titlu teza, Universitatea, Localitate, Tara, Anul	Anul	Kpi	<b>Kpi = 10</b>
1	"Optimal Operation and Planning of Active Distribution Systems in the Presence of Plug-in Electric Vehicles", susținută de ing. Abdelfatah Ali Ahmed Mohamed, la Budapest University of Technology and Economics, Faculty of Electrical Engineering and Informatics, Department of Electric Power Engineering. Conducător științific: Dr.ing. Dávid Raisz	2019	10	
		<b>TOTAL</b>	<b>10</b>	

Nr. crt	<b>3.5.2. nationale:</b> Denumire doctorand, Titlu teza, Universitatea, Anul	Anul	Kpi	<b>Kpi = 5</b>
1	"Contribuții la studiul rețelelor electrice de distribuție în prezența surselor regenerabile de energie folosind tehnici de calcul probabilistic și algoritmi metaeuristici" susținută de ing. Constantin Ghinea numit prin hotărârea Biroului Senatului Universității "Politehnica" din București nr. 657 din 29.03.2021. Conducător științific: Prof.Em.dr.ing. Mircea Eremia	2021	5	
2	"Integrarea vehiculelor electrice în rețelele viitoarelor orașe inteligente" susținută de ing. Adrian-Toni Radu numit prin hotărârea Biroului Senatului Universității "Politehnica" din București nr. 583 din 13.10.2020. Conducător științific: Prof.Em.dr.ing. Mircea Eremia	2020	5	
3	"Creșterea performanței și a siguranței în SEN prin utilizarea sistemelor de comandă, control, protecție și automatizare din perspectiva conceptului smart grids" susținută de ing. Hariss Nicorescu, numit prin decizia Biroului Senatului Universității "Politehnica" din București nr. 430 din 23.09.2019. Conducător științific: Prof.Em.dr.ing. Mircea Eremia	2019	5	
4	"Controlul circulațiilor de putere activă în rețele electrice de transport în contextul smart grids cu ajutorul dispozitivelor FACTS" susținută de ing. Dorian-Octavian Sidea, numit prin decizia Biroului Senatului Universității "Politehnica" din București nr. 313 din 28.06.2018. Conducător științific: Prof.Em.dr.ing. Mircea Eremia	2018	5	
5	"Siguranța în funcționarea sistemelor electroenergetice în contextul creșterii producției din surse impredictibile: metodologii de măsurare a energiilor de echilibrare" susținută de ing. Cătălin-Lucian Chimirel, numit prin decizia Biroului Senatului Universității "Politehnica" din București nr. 167 din 24.04.2017. Conducător științific: Prof.Em.dr.ing. Mircea Eremia	2017	5	
6	"Power system security improvement by FACTS devices" susținută de ing. Ali Abbulrazzaq Abdulwahhab, numit prin decizia Rectorului nr. 240 din 11.02.2016. Conducător științific: Prof.Em.dr.ing. Mircea Eremia	2016	5	
		<b>TOTAL</b>	<b>25</b>	

### 3.6. Premii

Nr. crt	<b>3.6.1. Academia Romana:</b> Date de identificare, Anul	Anul	Kpi	<b>Kpi = 30</b>
1				
		<b>TOTAL</b>	<b>0</b>	

Nr. crt	<b>3.6.2. ASAS, AOSR, academii de ramura și CNCS:</b> Date de identificare, Anul	Anul	Kpi	<b>Kpi = 15</b>
1	Premiul ASTR "Remus Radulet" 2017 pentru cartea "Advanced Solutions in Power Systems: HVDC, FACTS, and Artificial Intelligence"	2017	<b>15</b>	
		<b>TOTAL</b>	<b>15</b>	

Nr. crt	<b>3.6.3. premii internationale:</b> Date de identificare, Anul	Anul	Kpi	<b>Kpi = 10</b>
1	Best Poster Award, Bucharest 2018 Symposium on Microgrids, Real-time simulation of small-scale power grids with software in-the-loop and hardware in-the-loop experiments, Autori: Radu Plamanescu, Abouzar Estebarsari, Edoardo Patti, Lucian Toma	2018	<b>10</b>	
		<b>TOTAL</b>	<b>10</b>	

Nr. crt	<b>3.6.4. premii nationale in domeniu:</b> Date de identificare, Anul	Anul	Kpi	<b>Kpi = 5</b>
1	Outstanding Engineer Award 2016 - oferit de IEEE PES Romania Chapter	2016	<b>5</b>	
2	Medalia Comitetului Național Român pentru Consiliul Mondial al Energiei, 2016	2016	<b>5</b>	
3	Premiul AGIR 2013 pentru cartea „Handbook of Electrical Power System Dynamics: Modeling, Stability, and Control”.	2013	<b>5</b>	
4	Premiu pentru cea mai bună lucrare realizată de tineri autori, FOREN 2010, Neptun, 13-17 iunie 2010	2010	<b>5</b>	
		<b>TOTAL</b>	<b>20</b>	

**3.7. Membru in academii, organizatii, asociatii profesionale de prestigiu, nationale si internationale, apartență la organizatii din domeniul educatiei si cercetarii**

Nr. crt	<b>3.7.1. Academia Romana:</b> Date de identificare, Anul numirii	din anul	Kpi	Kpi = 100
1				
		<b>TOTAL</b>	<b>0</b>	

Nr. crt	<b>3.7.2. ASAS, AOSR si academii de ramura:</b> Date de identificare, Anul numirii	din anul	Kpi	Kpi = 30
1				
		<b>TOTAL</b>	<b>0</b>	

Nr. crt	<b>3.7.3.1. Conducere asociatii profesionale internationale:</b> Date de identificare, Anul numirii	din anul	Kpi	Kpi = 30
1				
		<b>TOTAL</b>	<b>0</b>	

Nr. crt	<b>3.7.3.2. Conducere asociatii profesionale nationale:</b> Date de identificare, Anul numirii	din anul	Kpi	Kpi = 10
1	IEEE Romania Section	2021	10	
		<b>TOTAL</b>	<b>10</b>	

Nr. crt	<b>3.7.4.1. Membru asociatii profesionale internationale:</b> Date de identificare, Anul numirii	din anul	Kpi	Kpi = 5
1	IEEE	2005	5	
2	CIGRE	2011	5	
		<b>TOTAL</b>	<b>10</b>	

Nr. crt	<b>3.7.4.2. Membru asociatii profesionale nationale:</b> Date de identificare, Anul numirii	din anul	Kpi	Kpi = 2
1	CNR-CIGRE		2	
2	CNR-CME		2	
		<b>TOTAL</b>	<b>4</b>	

Nr. crt	<b>3.7.5.1. Conducere Consilii si organizatii în domeniul educației și cercetării:</b> Date de identificare, Anul numirii	din anul	<b>Kpi</b>	<b>Kpi = 15</b>
1				
2				
			<b>TOTAL</b>	<b>0</b>

Nr. crt	<b>3.7.5.2. Membru Consilii si organizatii în domeniul educației și cercetării:</b> Date de identificare, Anul numirii	din anul	<b>Kpi</b>	<b>Kpi = 10</b>
1			<b>10</b>	
2			<b>10</b>	
			<b>TOTAL</b>	<b>20</b>