

FISA DE VERIFICARE A INDEPLINIRII STANDARDELOR MINIMALE

	Tipul activitatilor	Categorii	Minim prevazut	Număr Realizat	Punctaj Realizat
A1	1.1. Carti si capitole in carti de specialitate	1.1.1. Carti cu ISBN/ capitole ca autor didactice sau monografii	4	4	95.50
	1.2. Suport didactic	1.2.1. Suport de curs, inclusiv electronic	2	3	35.50
		1.2.2. Indrumare de laborator/aplicatii	2	2	0.87
TOTAL A1					131.87
A2	2.1. Articole in extenso in reviste cotate WOS Thomson Reuters, in volume proceedings indexate WOS Thomson Reuters si brevete de inventii indexate WOS Derwent		10	32	261.90
	2.2. Articole in reviste si in volumele unor manifestari stiintifice indexate in alte baze de date internationale		20	20	109.67
	2.3 Granturi / proiecte câștigate prin competiție nationala/internationala	2.3.1 Director/responsabil	2	2	22.50
		2.3.2. Membru in echipa		1	4.00
TOTAL A2					398.06
A3	3.1 Citări în revistele WOS și volumele conferințelor WOS		10	20	20.00
	3.2 Citări în revistele BDI și volumele conferințelor BDI		20	20	12.00
	3.4. Membru în colectivele de redacție sau comitete științifice ale revistelor și manifestărilor științifice, organizator de manifestări științifice, recenzor pentru reviste și manifestări științifice naționale și internaționale	3.4.1 WOS		63	630.00
	3.6. Premii			19	105.00
	TOTAL A3				

	Minim prevazut profesor	Realizat
Didactic - A1	120	131.87
Cercetare - A2	360	398.06
Recunoastere - A3	120	767.00
TOTAL	600	1296.93

Data 15.04.2024 Semnătura _____

Candidat
Conf.dr. ing. Ștefan Breban

Activitatea didactica si profesionala (A1)		Nr.pag.	Nr. Autori	Coefficient categoric (Internațional:2;Național:5; Suport curs: 10; Îndrumător laborator: 20)	Puntaj (kpi)	
Carti si capitole in carti de specialitate	Stefan Breban , Les microcentrales hydroélectriques: Etude du système de conversion électromécanique d'une microcentrale hydroélectrique a vitesse variable, Editions Universitaires Europeennes, 2010, AV Akademikerverlag GmbH & Co. KG, Germany, ISBN 978-613-1-53003-6	172	1	2	86	
	Stefan Breban , „Genetic Algorithm Optimization of an Energy Storage System Design and Fuzzy Logic Supervision for Battery Electric Vehicles”, InTech, 2016, Chapter from book: “Optimization Algorithms- Methods and Applications” Edited by Ozgur Baskan, ISBN 978-953-51-2593-8	13	1	2	6.5	
	Stefan Breban , Ioana Gros, Calin Marginean, Teodosescu Petre Dorel, Fuzzy logic energy management for a residential power system using renewable energy sources, Intech FUZZY CONTROL SYSTEMS, ISBN 978-953-51-5391-7, 2017	11	4	2	1.375	
	Stefan Breban , Mircea M. Rădulescu, „Trapecune Electrică. Aplicații”, UTPress, 2013, Cluj-Napoca, Romania, ISBN 978-973-662-817-7	65	2	20	1.625	
	Total				95.5	
Suport didactic	Suport de curs tiparit/electronic	Stefan Breban - Suport de curs (electronic) - Trapecune electrică	79	1	10	7.9
		Stefan Breban - Suport de curs (electronic) - Managementul energiei și sisteme de stocare pe vehicule	126	1	10	12.6
		Stefan Breban - Suport de curs (electronic) - Sisteme electrice de propulsie pentru vehicule	150	1	10	15
	Total				35.5	
	Suport îndrumator laborator	Stefan Breban "Managementul energiei și sisteme de stocare pe vehicule, Laborator inițiere logică fuzzy în Matlab" - electronic	4	1	20	0.20
Stefan Breban , Dan-Cristian Popa, Mircea M. Rădulescu, „Mașini electrice II - Îndrumar de lucrări practice de laborator” - electronic		40	3	20	0.67	
Total				0.87		
Coordonator de programe de studii, organizare						
	Total				0	
Total Activitatea didactica si profesionala					131.87	

Nr.	A 2.1. Articole in extenso in reviste cotate si in volume proceedings indexate ISI Thomson Reuters si brevete de inventii	Nr. autori	Factor de impact	Puntaj (kpi)	
1	G. Cimuca S. Breban , M.M. Radulescu, C. Saudemont, B. Robyns, Design and Control Strategies of an Induction-Machine-Based Flywheel Energy Storage System Associated to a Variable-Speed Wind Generator / IEEE TRANSACTIONS ON ENERGY CONVERSION Volume: 25 Issue: 2 Pages: 526-534 Published: JUN 2010	5	4.900	24.60	Revistă
2	S. Breban , M. Nasser, A. Ansel, C. Saudemont, B. Robyns, M. Radulescu, Variable speed small hydro power plant connected to AC grid or isolated loads / EPE JOURNAL Volume: 17 Issue: 4 Pages: 29-36 Published: OCT-DEC 2007	6	0.500	5.83	Revistă
3	M. Chirca, M. Dranca, C.A. Oprea, P.D. Teodosescu, A.M. Pacuraru, C. Neamtu, S. Breban , Electronically controlled actuators for a micro wind turbine furling mechanism, Energies, Volume 13, Issue 6, August 2020.	7	3.200	12.71	Revistă
4	S. Breban , M. Dranca, M. Chirca, A.M. Pacuraru, P.D. Teodosescu, C.A. Oprea, Experimental Tests on a Spoke-Type Permanent Magnets Synchronous Machine for Light Electric Vehicle Application, Applied Sciences, Volume 12, Issue 6, March 2022.	6	2.700	13.17	Revistă
5	Stefan Breban , Christophe Saudemont, Sebastien Vieillard, Benoit Robyns, Experimental design and genetic algorithm optimization of a fuzzy-logic supervisor for embedded electrical power systems / MATHEMATICS AND COMPUTERS IN SIMULATION Volume: 91 Special Issue: SI Pages: 91-107 Published: MAY 2013	4	4.600	29.25	Revistă
6	S. Breban , M.M. Radulescu, Fuzzy-logic supervision strategy for battery-powered electric vehicles / UPB Scientific Bulletin, Series C: Electrical Engineering and Computer Science, Volume 76, Issue 2, 2014, Pages 187-196	2	0.300	15.50	Revistă
7	Stefan Breban , Aymeric Ansel, Mehdi Nasser, Benoit Robyns, Mircea Radulescu, Experimental results on a variable-speed small hydro power station feeding isolated loads or connected to power grid / Conference: Joint Conference on Electromotion/IEEE Aegean Conference on Electrical Machines and Power Electronics/ Location: Bodrum, TURKEY Date: SEP 10-12, 2007, Pages: 760-765 Published: 2007	5	0.000	5.00	
8	Mihai Chirca, Stefan Breban , Claudiu Oprea, Mircea Radulescu, Design Analysis of a Novel Double-Sided Axial-Flux Permanent-Magnet Generator for Micro-Wind Power Applications / 2014 INTERNATIONAL CONFERENCE ON OPTIMIZATION OF ELECTRICAL AND ELECTRONIC EQUIPMENT (OPTIM) Pages: 472-476 Published: 2014	4	0.000	6.25	
9	Stefan Breban , Benoit Robyns, Mircea Radulescu, Study of a grid-connected hybrid wind/micro-hydro power system associated with a supercapacitor energy storage device / OPTIM 2010: PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE ON OPTIMIZATION OF ELECTRICAL AND ELECTRONIC EQUIPMENT, PTS I-IV Book Series: Proceedings of the International Conference on Optimization of Electrical and Electronic Equipment Pages: 1198-1203 Published: 2010	3	0.000	8.33	

10	Fabien Mollet, Stefan Breban , Christophe Saudemont, Regis Meuret, Benoit Robyns, Design and Supervision Strategies for Embedded Electric Power Systems Equipped with Energy Storage Devices / 14th European Conference on Power Electronics and Applications (EPE)/ECCE Europe Conference on Power Electronics and Adjustable Speed Drives - Birmingham, ENGLAND Date: AUG 30-SEP 01, 2011	5	0.000	5.00
11	S. Breban , B. Robyns, M. Radulescu, Islanding Detection Methods for a Micro-Hydro Power Station - Simulation and Experimental Results / 8th International Symposium on Advanced Electromechanical Motion Systems (ELECTROMOTION 2009)/EPE Chapter Electric Drives Joint Symposium Location: Lille, FRANCE , Pages: 346-351 Published: 2009	3	0.000	8.33
12	Mihai Chirca, Stefan Breban , Claudiu Oprea, Mircea Radulescu, Analysis of innovative design variations for double-sided coreless-stator axial-flux permanent-magnet generators in micro-wind power applications / Proceedings - 2014 International Conference on Electrical Machines, ICEM 2014, Berlin, GERMANY Date: SEP 02-05, 2014	4	0.000	6.25
13	G. Cimuca, S. Breban , M.M. Radulescu, C. Saudemont, B. Robyns, Control strategy for an induction machine-based flywheel energy storage system associated to a variable-speed wind generator / 10th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM 2006) Location: Brasov, ROMANIA Date: MAY 18-19, 2006, Pages: 191-198 Published: 2006	5	0.000	5.00
14	Mihai Chirca, Stefan Breban , Claudiu Oprea, Mircea Radulescu, Comparative Design Analysis of Ferrite-Permanent Magnet Micro-Wind Turbine Generators / ACEMP - OPTIM - ELECTROMOTION Joint Conference 2015, Side, TURKEY Date: SEP 02-04, 2015	4	0.000	6.25
15	Mihai Chirca, Claudiu Oprea, Petre Teodosescu, Stefan Breban , Optimal Design of a Radial Flux Spoke-Type Interior Rotor Permanent Magnet Generator for Micro-Wind Turbine Applications, 2016 INTERNATIONAL CONFERENCE ON APPLIED AND THEORETICAL ELECTRICITY (ICATE), Craiova, Romania, Craiova, OCT 06-08, 2016	4	0.000	6.25
16	Dranca Marius, Chirca Mihai, Zaharia Valentin, Zaharia Andreea, Breban Stefan , Permanent Magnet Generator for Counter-Rotating Vertical Axis Micro-Wind Turbine, 52nd International Universities Power Engineering Conference (UPEC), Heraklion, GREECE, Date: AUG 28-31, 2017	5	0.000	5.00
17	Dranca Marius, Chirca Mihai, Cosman Sorin, Jurca Florin, Breban Stefan , Experimental Validation of a Permanent-Magnet Micro-Wind Turbine Generator with Counter Rotating Rotors, 8th International Conference on ENERGY and ENVIRONMENT (CIEM), Bucharest, ROMANIA, OCT 19-20, 2017	5	0.000	5.00
18	M. Dranca, M. Chirca, S. Breban , „Design evaluation of several electric machines topologies for propulsion of a railway vehicle”, 2018 International Conference on Applied and Theoretical Electricity ICATE 2018, 4-6 Octombrie 2018, Craiova, Romania, 978-1-5386-3805-7	3	0.000	8.33
19	M. Dranca, M. Chirca, S. Cosman, S. Breban , „Design Analysis of a Permanent Magnet Brushless Generator with Two Counter Rotating Rotors for Small-Wind Turbine”, 2018 International Conference on Applied and Theoretical Electricity ICATE 2018, 4-6 Octombrie 2018, Craiova, Romania, 978-1-5386-3805-7	4	0.000	6.25

20	M. Chirca, M. Dranca, P.D. Teodosescu, S. Breban , „Limited-Angle Electromechanical Actuator for Micro Wind Turbines Overspeed Protection”, 11th International Symposium on Advanced Topics in Electrical Engineering – ATEE 2019, 28-30 Martie 2019, București, Romania, ISBN 978-1-4799-7514-3, ISSN 1843-8571	4	0.000	6.25
21	M. Dranca, M. Chirca, S. Breban , „Comparative Design Analysis of Axial Flux Permanent Magnet Direct-Drive Wind Generators”, 11th International Symposium on Advanced Topics in Electrical Engineering – ATEE 2019, 28-30 Martie 2019, București, Romania, ISBN 978-1-4799-7514-3, ISSN 1843-8571	3	0.000	8.33
22	M. Dranca, M. Chirca, S. Breban , M. Fartan, „Design and Optimization of an Axial-Flux Permanent Magnet Synchronous Machine for Railway Traction Application”, 8th International Conference on Modern Power Systems (MPS), 21-23 Mai 2019, Cluj-Napoca, Romania, ISBN 978-1-7281-0750-9	4	0.000	6.25
23	M. Chirca, M. Dranca, D.C. Popa, S. Breban , M. Iusep, „Design Analysis of a Toroidal Transformer for Traction Application”, 8th International Conference on Modern Power Systems (MPS), 21-23 Mai 2019, Cluj-Napoca, Romania, ISBN 978-1-7281-0750-9	5	0.000	5.00
24	C.A. Oprea, C. Iclodean, M. Chirca, M. Dranca, F. Ghita, S. Breban , „Initial Evaluation of Permanent Magnet Synchronous Motor Structures for Light Electric Vehicle Applications”, IEEE 28th International Symposium on Industrial Electronics (ISIE), 12-14 Iunie 2019, Vancouver, Canada, ISBN 978-1-7281-3666-0, Electronic ISSN: 2163-5145	6	0.000	4.17
25	Mehdi Nasser, Stefan Breban , Vincent Courtecuisse, Arnaud Vergnol, Benoit Robyns, Mircea Radulescu, Experimental results of a hybrid wind/hydro power system connected to isolated loads / 2008 13TH INTERNATIONAL POWER ELECTRONICS AND MOTION CONTROL CONFERENCE, VOLS 1-5 Book Series: International Power Electronics and Motion Control Conference EPE PEMC Pages: 1896-1903 Published: 2008.	6	0.000	4.17
26	Stefan Breban , Mehdi Nasser, Arnaud Vergnol, Vincent Courtecuisse, Benoit Robyns, Mircea Radulescu, Study of a grid-connected hybrid wind/micro-hydro power system / 11th International Conference on Optimization of Electrical and Electronic Equipment Location: Brasov, ROMANIA Date: MAY 22-23, 2008, Pages: 363-368 Published: 2008.	6	0.000	4.17
27	Stefan Breban , Mehdi Nasser, Arnaud Vergnol, Benoit Robyns, Mircea Radulescu, Hybrid wind/microhydro power system associated with a supercapacitor energy storage device - Experimental results / International Conferece on Electrical Machines Location: Vilamoura, PORTUGAL Date: SEP 06-09, 2008, Pages: 1134-1139 Published: 2009.	5	0.000	5.00

28	Stefan Breban , Fabien Mollet, Christophe Saudemont, Benoit Robyns, Mircea Radulescu, Embedded electric power system with fuzzy-logic supervision for vehicular applications / 13th International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2012, Brasov; Romania; 24 May 2012 through 26 May 2012.	5	0.000	5.00
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Nr.	A 2.1. Articole in extenso in reviste cotate si in volume proceedings indexate ISI Thomson Reuters si brevete de inventii	Nr. autori	Factor de impact	Puntaj (kpi)
1	Axial flux permanent magnet electrical machine Patent Number(s): EP2869433-A1 ; EP2869433-B1 Inventor(s): BREBAN S , MESTER V, OPREA C A Patent Assignee Name(s) and Code(s): UNIV CLUJ-NAPOCA TEHNICA (UYCL-Non-standard) SC BMENERGY SRL (BMEN-Non-standard) Derwent Primary Accession Number: 2015-28499M	3	0.000	8.33
2	Electro mechanical actuator with electronic control device Patent Number(s): RO131166-A0 Inventor(s): BREBAN S , CHIRCA M, NEAG A V, TEODOSESCU P D Patent Assignee Name(s) and Code(s): UNIV CLUJ-NAPOCA TEHNICA (UYCL-Non-standard) BMENERGY SRL (BMEN-Non-standard) Derwent Primary Accession Number: 2016-32056K	4	0.000	6.25
3	Sistem eolian aeropurtat de producere a energiei electrice Patent Number(s): RO133886-A0 Inventor(s): BREBAN S , DRANCA M A, MALAE I Patent Assignee Name(s) and Code(s): UNIV CLUJ-NAPOCA TEHNICA (UYCL-Non-standard), COMOTI INST NAT CERC-DEZVOLTARE TURBOMOT(COMO-Non-standard) Derwent Primary Accession Number: 2020-20436P	3	0.000	8.33
4	Mașină electrică de propulsie cu acționare directă a roții motoare pentru vehiculele de transport pe cale de rulare ghidată Patent Number(s): RO133886-A0 Inventor(s): BREBAN S , DRANCA M A, FARTAN M Patent Assignee Name(s) and Code(s): UNIV CLUJ-NAPOCA TEHNICA (UYCL-Non-standard), REMARUL 16 FEBRUARIE SA(REMA-Non-standard) Derwent Primary Accession Number: 2020-A69482	3	0.000	8.33
TOTAL				261.90

Nr.	A. 2.2 Articole in reviste si volumele unor manifestari stiintifice indexate in alte baze de date internationale	Nr. Autori	Puntaj (kpi)	
1	Zhang, H., Mollet, F., Breban, S. , Saudemont, C., Robyns, B., Meuret, R., Hybrid storage and dissipation systems based power management strategies in a local dc power distribution system of more electric aircraft / 27th Congress of the International Council of the Aeronautical Sciences 2010, ICAS 2010, Nice; France; 19 September 2010 through 24 September 2010 [SCOPUS]	6	3.33	
2	Zhang, H., Mollet, F., Breban, S. , Saudemont, C., Robyns, B., Power flow management strategies for a local DC distribution system of More Electric Aircraft / 2010 IEEE Vehicle Power and Propulsion Conference, VPPC 2010, Lille; France; 1 September 2010 through 3 September 2010 [SCOPUS]	5	4.00	
3	Stefan Breban , Mircea Radulescu, Benoit Robyns, Direct active and reactive power control of variable-speed doubly-fed induction generator on micro-hydro energy conversion system / 19th International Conference on Electrical Machines, ICEM 2010, Rome; Italy; 6 September 2010 through 8 September 2010 [SCOPUS]	3	6.67	
4	Adrian Pop, Florin Jurca, Claudiu Oprea, Mihai Chirca, Stefan Breban , Mircea Radulescu, Axial-flux vs. radial-flux permanent-magnet synchronous generators for micro-wind turbine application / 2013 15th European Conference on Power Electronics and Applications, EPE 2013, Lille; France; 2 September 2013 through 6 September 2013 [SCOPUS]	6	3.33	
5	Stefan Breban , MM Radulescu, Hybrid Electrical Energy Storage for Embedded Vehicular Power Systems / BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iași Tomul LVII (LXI), Fasc. 6, 2011, Secția ELECTROTEHNICĂ. ENERGETICĂ. ELECTRONICĂ [INDEX COPERNICUS]	2	10.00	Revistă
6	G Cimuca, S Breban , MM Radulescu, C Saudemont, B Robyns, Energy-optimized direct torque control of an induction machine-based flywheel energy storage system associated to a variable-speed wind generator / ELECTROMOTION, Vol. 13 (2006), No. 1 [INSPEC]	5	4.00	Revistă
4	S. Breban , M. Chirca, F. Maes, F. Bouteille, Conversion of single phase induction motor to single-phase induction generator, A 18-a Conferință Națională de Acționări Electrice, CNAE 2016, 13-14 Octombrie 2016, Cluj-Napoca, România, Acta Electrotehnica, nr. 3-4, 2016 pp. 506 - 510. [EBSCO]	4	5.00	Revistă
8	F. Bouteille, F. Maes, M. Chirca, S. Breban , Thermal Analysis for a Permanent Magnet Synchronous Generator, A 18-a Conferință Națională de Acționări Electrice, CNAE 2016, 13-14 Octombrie 2016, Cluj-Napoca, România, Acta Electrotehnica, nr. 3-4, 2016 pp. 501 - 505 [EBSCO]	4	5.00	Revistă
9	S. Breban , F. Maes, F. Bouteille, D. Fodorean, Experimental Analysis of a Hybrid Energy Source Used in Vehicular Applications, A 18-a Conferință Națională de Acționări Electrice, CNAE 2016, 13-14 Octombrie 2016, Cluj-Napoca, România, Acta Electrotehnica, nr. 3-4, 2016 pp. 355 - 358 [EBSCO]	4	5.00	Revistă
10	M.M. Rădulescu, S. Breban , M. Chirca, Novel Topologies of Low-Speed Axial-Flux Permanent-Magnet MicroWind Generators, A 18-a Conferință Națională de Acționări Electrice, CNAE 2016, 13-14 Octombrie 2016, Cluj-Napoca, România, Acta Electrotehnica, nr. 3-4, 2016 pp. 371 - 374 [EBSCO]	3	6.67	Revistă

11	S. Breban , M. Dranca, I. Malael, Airborne Ultra-Light Micro-Wind Turbine System, Acta Electrotehnica, vol. 61, nr. 4, 2020. [EBSCO]	3	6.67	Revistă
12	Chloe Leicht, S. Breban , „Fuzzy logic energy management for electric vehicles battery charging using renewable energy sources”, Acta Electrotehnica, vol. 61, nr. 4, 2020 pp. 302 – 306. [EBSCO]	2	10.00	Revistă
13	M. Chirca, M. A. Drancă, S. Breban , C.A. Oprea, „PMSM Evaluation for Electric Drive Train for L6e Light Electric Vehicles”, 2020 International Conference and Exposition on Electrical And Power Engineering (EPE), 22-23 Oct. 2020, Iași, România. [SCOPUS]	4	5.00	
14	M. A. Drancă, M. Chirca, S. Breban, M. Fărtan, „Thermal and Demagnetization Analysis of an Axial-Flux Permanent Magnet Synchronous Machine”, 2020 International Conference and Exposition on Electrical And Power Engineering (EPE), 22-23 Oct. 2020, Iași, România. [SCOPUS]	4	5.00	
15	M. Dranca, M. Chirca, Breban S , D. Fodorean, Comparative Design Analysis of Two Modular Permanent Magnet Synchronous Generators, 7th IEEE International Symposium on Electrical and Electronics Engineering, ISEEE, October 2021. [SCOPUS]	4	5.00	
16	A.M. Păcuraru, S.I. Salcu, M.I. Iuoraș, S. Breban , Z. Mathe, P.D. Teodosescu, „Practical Implementation of an Electronic Controlled Actuator for Micro Wind Turbine Overspeed Protection”, 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), 20 – 22 October 2022. [IEEEXPLORE]	6	3.33	
17	M. Chirca, M. A. Drancă, S. Breban , S. Lorand, “In-wheel Slotless Permanent Magnet Synchronous Motor for Light Electric Vehicle Propulsion”, Proceedings of 2023 10th International Conference on Modern Power Systems, MPS 2023, 21-23 June 2023, Cluj-Napoca, Romania. [IEEEXPLORE]	4	5.00	
18	S. Breban , M. A. Drancă, M. Chirca, D. Pepelea, “Numerical simulations for a direct drive horizontal axis micro-wind turbine”, Proceedings of 2023 10th International Conference on Modern Power Systems, MPS 2023, 21-23 June 2023, Cluj-Napoca, Romania. [IEEEXPLORE]	4	5.00	
19	V. Dury, L. S. G. Kouontchou, M. Chirca, S. Breban , “In-wheel Slotless Permanent Magnet Electrical Machines for Solar Vehicle Propulsion”, Proceedings of the 2023 International Conference on Electromechanical and Energy Systems, SIELMEN 2023, 11-13 October, Chișinău, R. Moldova. [IEEEXPLORE]	4	5.00	
20	M. Chirca, M. A. Drancă, S. Breban , “Low Speed Direct Drive Electrical Generator for Multi-Blade Wind Turbine Application”, Proceedings of the 2023 International Conference on Electromechanical and Energy Systems, SIELMEN 2023, 11-13 October, Chișinău, R. Moldova. [IEEEXPLORE]	3	6.67	
TOTAL			109.67	

	Categorie	Nr.	A 2.3 Granturi/proiecte castigate prin competitie	Durata Ani	Puntaj (kpi)	
DIRECTOR / RESPONSABIL	Nationale	1	Proiect: Studiul Sistemului de Conversie Electromecanică din Structura unei Microcentrale Hidroelectrice cu Viteză Variabilă Numar de contract: 421/2007 Tip proiect: Tinere echipe (TD) Valoarea proiectului UTCN: 28.240 lei Director de proiect: șl.dr.ing. Ștefan Breban	1	10	
		2	Proiect: Testări experimentale privind validarea conceptului de VAWT cu rotoare contra rotative Numar de contract: 64/2017 Tip proiect: Proiect experimental demonstrativ Valoarea proiectului UTCN: 225.000 lei Responsabil proiect: șl.dr.ing. Ștefan Breban	1.25	12.5	
	Total					22.5
MEMBRU IN ECHIPA	Internationale	1	Proiect: Développement et mise au point d'un réseau local d'alimentation et de RECUPération d'ENERgie à bord (RECUPENER) Finanțator: Guvernul francez și companii private franceze Reaponsabil de proiect: Dr. Ing. Christophe Saudemont 2010-2011 https://www.pole-astech.org/web/site/index.php?doi=4c0bc2a4e75e67fac01216e48e2992ba&lang=en	1	4	
		Total				
Total						26.5

Nr	Lucrare citată / Lucrare care Citează	Nr. Autori	CITARI ISI (coef.5)	CITARI BDI (coef.3)	Puntaj (kpi)
G. Cimuca S. Breban, M.M. Radulescu, C. Saudemont, B. Robyns, Design and Control Strategies of an Induction-Machine-Based Flywheel Energy Storage System Associated to a Variable-Speed Wind Generator / IEEE TRANSACTIONS ON ENERGY CONVERSION Volume: 25 Issue: 2 Pages: 526-534 Published: JUN 2010					
1	Baszynski, Marcin; Pirog, Stanislaw / A Novel Speed Measurement Method for a High-Speed BLDC Motor Based on the Signals From the Rotor Position Sensor / IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS Volume: 10 Issue: 1 Pages: 84-91 Published: FEB 2014	5	5	0	1
2	Abdel-Khalik, A.; Elserougi, A.; Massoud, A.; et al., A power control strategy for flywheel doubly-fed induction machine storage system using artificial neural network, ELECTRIC POWER SYSTEMS RESEARCH Volume: 96 Pages: 267-276 Published: MAR 2013	5	5	0	1
3	Trong Duy Nguyen; Foo, Gilbert / Sensorless control of a dual-airgap axial flux permanent magnet machine for flywheel energy storage system , IET ELECTRIC POWER APPLICATIONS Volume: 7 Issue: 2 Pages: 140-149 Published: FEB 2013	5	5	0	1
4	Nair, Gayathri S.; Senroy, Nilanjan, Wind Turbine with Flywheel for Improved Power Smoothing and LVRT Book Group Author(s): IEEE Conference: General Meeting of the IEEE-Power-and-Energy-Society (PES) Location: Vancouver, CANADA Date: JUL 21-25, 2013	5	5	0	1
5	Daoud, Mohamed I.; Abdel-Khalik, A. S.; Elserougi, A.; et al., DC Bus Control of an Advanced Flywheel Energy Storage Kinetic Traction System for Electrified Railway Industry Book Group Author(s): IEEE Conference: 39th Annual Conference of the IEEE Industrial-Electronics-Society (IECON) Location: Vienna, AUSTRIA Date: NOV 10-14, 2013	5	5	0	1
6	Hu, K. W.; Liaw, C. M., On the Flywheel/Battery Hybrid Energy Storage System for DC Microgrid Book Group Author(s): IEEE Conference: 1st International Future Energy Electronics Conference (IFEEC) Location: Tainan, TAIWAN Date: NOV 03-06, 2013	5	5	0	1
7	Abdel-Khalik, Ayman S.; Elserougi, Ahmed A.; Massoud, Ahmed M.; et al., Fault Current Contribution of Medium Voltage Inverter and Doubly-Fed Induction-Machine-Based Flywheel Energy Storage System IEEE TRANSACTIONS ON SUSTAINABLE ENERGY Volume: 4 Issue: 1 Pages: 58-67 Published: JAN 2013	5	5	0	1

8	Park, Yu-Seop; Jang, Seok-Myeong; Choi, Jang-Young; et al., Influence of AC-DC-DC Converter on Radial/Axial Flux Permanent Magnet Wind Power Generators with Mechanical Energy Storage System Book Group Author(s): IEEE Conference: IEEE International Conference on Industrial Technology (ICIT) Location: Cape Town, SOUTH AFRICA Date: FEB 25-28, 2013	5	5	0	1
9	Orlando Suvire, Gaston; Gustavo Molina, Marccló; Enrique Mercado, Pedro, Improving the Integration of Wind Power Generation Into AC Microgrids Using Flywheel Energy Storage IEEE TRANSACTIONS ON SMART GRID Volume: 3 Issue: 4 Pages: 1945-1954 Published: DEC 2012	5	5	0	1
10	Trong Duy Nguyen; Beng, Gilbert Foo Hock; Tseng, King-Jet; et al., Modeling and Position-Sensorless Control of a Dual-Airgap Axial Flux Permanent Magnet Machine for Flywheel Energy Storage Systems JOURNAL OF POWER ELECTRONICS Volume: 12 Issue: 5 Pages: 758-768 Published: SEP 2012	5	5	0	1
11	Suvire, G. O.; Mercado, P. E., Combined control of a distribution static synchronous compensator/flywheel energy storage system for wind energy applications IET GENERATION TRANSMISSION & DISTRIBUTION Volume: 6 Issue: 6 Pages: 483-492 Published: JUN 2012	5	5	0	1
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13	I Şerban, C Marinescu, Aggregate load-frequency control of a wind-hydro autonomous microgrid, Renewable Energy Volume 36, Issue 12, December 2011, Pages 3345–3354	5	5	0	1
14	C.A. Plateroa, C. Nicolet, J.A. Sánchez, B. Kawkabani, Increasing wind power penetration in autonomous power systems through no-flow operation of Pelton turbines / Renewable Energy, Volume 68, August 2014, Pages 515–523	5	5	0	1
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16	K Premalatha, S Vasantharathna, T Dhivyaah, Self-excitation system for control of wind turbine driven induction generator using direct torque control, Journal of Vibration and Control April 29, 2014	5	5	0	1
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20	Daoud, M.I.; Abdel-Khalik, A.S.; Massoud, A.; Ahmed, S., An asymmetrical six phase induction machine for flywheel energy storage drive systems / Electrical Machines (ICEM), 2014 International Conference on, Issue Date: 2-5 Sept. 2014,	5	5	0	1

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3	Kerdtuad, P. Simma, T. Chaiamarit, K. Visawaphatradhanadhorn, S., Effects of excitation capacitance and speed on the terminal voltage of self-excited induction generatorbased flywheel energy storage system, ECTI-CON 2017 - 2017 14th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology 8096330, pp. 683-686	5	0	3	0.6
4	Yulong, P. Cavagnino, A. Vaschetto, S. Feng, C. Tenconi, A., Flywheel energy storage systems for power systems application, 2017 6th International Conference on Clean Electrical Power: Renewable Energy Resources Impact, ICCEP 2017, 8004733, pp. 492-501	5	0	3	0.6
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6	Daoud, M.I. Massoud, A. Abdel-Khalik, A. Ahmed, S., An asymmetrical six-phase induction machine-based flywheel energy storage system using modular multilevel converters, 19th International Conference on Electrical Machines and Systems, ICEMS 2016, 7837366	5	0	3	0.6
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11	Wang, J. Su, J. Lai, J. Zhang, J. Wang, S., Research on control method for flywheel battery energy storage system, 2016 IEEE 8th International Power Electronics and Motion Control Conference, IPEMC-ECCE Asia 2016, 7512424, pp. 1006-1010	5	0	3	0.6
12	Premalatha, K. Vasantharathna, S.Dhivyaah, T., Self-excitation system for control of wind turbine driven induction generator using direct torque control, JVC/Journal of Vibration and Control, 22(3), pp. 736-755	5	0	3	0.6
13	Daoud, M.I. Massoud, A. Elserougi, A. Abdel-Khalik, A. Ahmed, S., A dual three-phase induction machine based flywheel storage system driven by modular multilevel converters for fault ride through in HVDC systems, Asia-Pacific Power and Energy Engineering Conference, APPEEC 2016-January,7380870	5	0	3	0.6
14	Farhadi, M. Mohammed,O., Energy storage systems for high power applications, IEEE Industry Application Society - 51st Annual Meeting, IAS 2015, Conference Record 7356787	5	0	3	0.6
15	Gayathri Nair, S. Jain, D. Jain, R. Senroy, N. Abhyankar, A.R., Sizing of a generic hybrid energy storage system for power smoothing of a wind generator, IEEE Power and Energy Society General Meeting 2015-September,7285919	5	0	3	0.6
16	Awadallah, M.A. Venkatesh, B., Energy storage in flywheels: An overview, Canadian Journal of Electrical and Computer Engineering, 38(2),7120216, pp. 183-193	5	0	3	0.6
17	Mardani Borujeni, F. Ardebili, M., DTC-SVM control strategy for induction machine based on indirect matrix converter in flywheel energy storage system, 6th Annual International Power Electronics, Drive Systems, and Technologies Conference, PEDSTC 2015, 7093300, pp. 352-357	5	0	3	0.6

18	Premalatha, K. Vasantharathna, S. Thirumoorthi, P. Yadaiah N., Harmonic current compensation in self excited induction generator using active filter, Istanbul University - Journal of Electrical and Electronics Engineering, 15(1), pp. 1873-1881	5	0	3	0.6
19	Hansen, C. Eggers, K. Kotlarski, J. Ortmaier, T., Comparative evaluation of energy storage application in multi-axis servo systems, 2015 IFToMM World Congress Proceedings, IFToMM 2015	5	0	3	0.6
20	Liu, Y. Shi, L. Zhao, L. Li, Y., The controls of motors in flywheel energy storage system, Proceedings of the 2014 9th IEEE Conference on Industrial Electronics and Applications, ICIEA 2014 6931154, pp. 179-182	5	0	3	0.6
Total		3.1.1 ISI	20		20
Total		3.1.2 BDI		20	12

3.3. Membru în colectivele de redacție sau comitete științifice ale revistelor și manifestărilor științifice, organizator de manifestări științifice, recenzor pentru reviste și manifestări științifice naționale și internaționale

ISI		Puntaj (kpi)
1	IEEE Transactions on Energy Conversion, ISSN 0885-8969 - 16 articole recenzate (conform documentului justificativ)	160
2	IEEE Transactions on Industrial Electronics, ISSN 0018-9421 - 6 articole recenzate (conform documentului justificativ)	60
3	Mathematics and Computers in Simulation, ISSN 0378-4754 - 4 articole recenzate (conform documentului justificativ)	40
4	Applied Energy, ISSN: 0306-2619 - 7 articole recenzate (conform documentului justificativ)	70
5	Reviste MDPI (conform documentelor justificative)	300
Total		630

3.6. Premii

Naționale		Puntaj (kpi)
1	Medalia de aur cu Mențiune specială, Stefan Breban, Teodosescu Petre Dorel, Neag Adriana-Voica, Chirca Mihai, Actuator Electromecanic cu dispozitiv electronic de comandă, Salonul Internațional de Inventică, PRO INVENT, Ediția a XIV-a, 2016, Cluj-Napoca, România	5
2	Medalia de argint a Universității Ștefan cel Mare din Suceava, Stefan Breban, Teodosescu Petre Dorel, Neag Adriana-Voica, Chirca Mihai, Actuator Electromecanic cu dispozitiv electronic de comandă Salonul Internațional de Inventică, PRO INVENT, Ediția a XIV-a, 2016, Cluj-Napoca, România	5
3	Honorable Mention, Salonul Internațional "Cadet INOVA '17, Stefan Breban, Teodosescu Petre Dorel, Neag Adriana-Voica, Chirca Mihai, Actuator Electromecanic cu dispozitiv electronic de comandă 2017, Sibiu, România	5
4	Medalia de bronz, Salonul internațional de Inventicii și Inovații "Traian Vuia", Timișoara - Stefan Breban, Teodosescu Petre Dorel, Neag Adriana-Voica, Chirca Mihai, Actuator Electromecanic cu dispozitiv electronic de comandă, Timișoara, România	5
5	Medalia de aur, Salonul internațional al cercetării, inovației și transferului tehnologic - Stefan Breban, Teodosescu Petre Dorel, Neag Adriana-Voica, Chirca Mihai, Actuator Electromecanic cu dispozitiv electronic de comandă, Iași, România	5
6	Medalia de aur (secțiunea Inventicii), Euroinvent 2017 - Stefan Breban, Teodosescu Petre Dorel, Neag Adriana-Voica, Chirca Mihai, Actuator Electromecanic cu dispozitiv electronic de comandă, Iași, România	5
7	Diploma de excelență și Medalia de aur - Stefan Breban, Victor Mester, Claudiu Oprea - Mașină sincronă cu flux axial și magneți permanenți cu concentrare de flux magnetic, Salonul Internațional de Inventică, PRO INVENT, Ediția a XII-a, 2014, Cluj-Napoca, România	5
8	2 Premii la Saloane de Inventică Internaționale în anul 2023 (conform document justificativ)	20
9	10 Premii la Saloane de Inventică Naționale în anul 2023 (conform document justificativ)	50
Total		105