

UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI
FACULTATEA DE INGINERIE ELECTRICĂ, ENERGETICĂ ȘI INFORMATICĂ APLICATĂ
DEPARTAMENTUL DE UTILIZĂRI, ACȚIONĂRI ȘI AUTOMATIZĂRI INDUSTRIALE

Examen de promovare pentru ocuparea postului de conferențiar, poz. 7

Disciplinele postului: Proiectarea instalațiilor electrice,
Instalații electrice de joasă tensiune,
Utilizarea energiei electrice

FIȘA DE VERIFICARE
a îndeplinirii standardelor minime naționale de prezentare la examenul de promovare pe postul de
conferențiar universitar

Candidat: Serea Elena / Data nașterii: [REDACTED] Funcția actuală: șef lucrări universitar. Data numirii în funcția actuală: 29.09.2014. Instituția: Universitatea Tehnică Gheorghe Asachi din Iași

Se preia tabelul și definițiile corespunzătoare domeniului științific aferent, conform Anexei PO.DID.12_A1.3.

(Modul de îndeplinire a standardelor minime naționale va fi prezentat în mod explicit și va trebui însoțit de dovezi)

Data: 09.12.2025
Candidat ș.l.dr.ing. Serea Elena
(Nume prenume și semnătura)

[REDACTED SIGNATURE]

ANEXA 9 – COMISIE DE INGINERIE ELECTRICĂ

STANDARDE MINIMALE NECESARE ȘI OBLIGATORII PENTRU CONFERIREA TITLURILOR DIDACTICE DIN ÎNVĂȚĂMÂNTUL SUPERIOR ȘI A GRADELOR PROFESIONALE DE CERCETARE-DEZVOLTARE

1. Tabel cu structura activității candidatului					
Nr crt.	Domeniul activităților	Tipul activităților	Categorii și restricții	Subcategorii	Indicatori (kpi)
0	1	2	3	4	5
1.	Activitatea didactică și profesională (A1)	1.1. Cărți și capitole în cărți de specialitate	1.1.1 Cărți cu ISBN/capitole ca autor, Conferențiar minim 2	1.1.1.1. Internaționale 1. Elena Serea, New approach on energy storage technologies based on supercapacitors, Lambert Academic Publishing, Germany, 2017. ISBN 978-3-659-45348-9 2. Elena Serea, Light pollution effects and solutions, Lambert Academic Publishing, Germany, 2023. ISBN 978-620-6-14361-1	Nr. pag./ (2*nr. autori) 109/2=54.5 108/2=54
				1.1.1.2. Naționale	Nr. pag./ (5*nr. autor)
				1.1.2. Cărți/ capitole de cărți ca editor/coordonator	Nr. pag./ (3*nr. autori)
				1.1.2.1. Internaționale	Nr. pag./ (7*nr. autori)
		1.2. Suport didactic	1.2.1. Suport de curs inclusiv electronic Conferențiar minim 1	1.1.2.2. Naționale	Nr. pag./ (10*nr. autori)
				1. Tehnici informatice și de comunicații pentru administrarea afacerilor – Elena Dănilă, Adrian Adăscăliței, ISBN 978-606-685-126-8, Ed. Performantica Iași, 2014. 2. Suport de curs: Computer Aided Design of Electrical Installations http://www.euedia.tuiasi.ro/?page_id=1251&lang=en 3. Suport de curs: Proiectarea Instalatiilor Electrice https://edu.tuiasi.ro/pluginfile.php/196732/mod_resource/content/1/PIE_prezentari%20curs%202025.pdf	Nr. pag./ (10*nr. autori) 155/(10*2)= 7.75 61/10= 6.1 132/10=13.2
				1.2.2. Îndrumare de laborator /aplicații; Conferențiar minim 1	Nr. pag./ (20*nr. autori) 353/20*4 = 4.41 118/20*2 = 2.95
		1.3. Coordonare	Punctaj unic pentru	Coordonator program de studii Inginerie economică în domeniul	10

		de programe de studii, organizare si coordonare programe de formare continua si proiecte educaționale(POS, ERASMUS, sa)	fiecare activitate	electric, electronic și energetic (IEDEE)	
2.	Activitatea de cercetare (A2)	2.1. Articole în extenso în reviste cotate WOS Thomson Reuters ^[1] în volume proceedings indexate WOS Thomson-Reuters si brevete de invenție WOS Derwent	2.1.2. Conferențiar - minimum 7 articole din care minimum 2 ca prim autor si minimum 2 in reviste	<u>Reviste cu IF (WOS):</u> 1. Donciu Codrin, Serea Elena , Temneanu Marinela, Frequency domain estimation method of the characteristic period of the P wave of earthquakes. <i>Frontiers in Physics</i> , 2025,13:1496451. IF = 2.1 2. Donciu Codrin, Temneanu Marinela, Serea Elena , PV Panels Fault Detection Video Method Based on Mini-Patterns. <i>AppliedMath</i> 2025, 5, 89. IF = 0.7 3. Balan, G., Neninger, P., Ruiz Zúñiga, E., Serea Elena , Lucache, D. D., Sălceanu, A. A Perspective on Software-in-the-Loop and Hardware-in-the-Loop Within Digital Twin Frameworks for Automotive Lighting Systems. <i>Applied Sciences</i> , 2025, 15(15), 8445. IF = 2.5 4. Serea Elena ; Donciu, C.; Temneanu, M.C. Modular System for High-Precision Irrigation with Nutrients Addition. <i>Applied Sciences</i> 2025, 15, 8819. IF = 2.5 5. Temneanu M.C, Docniu C., Serea Elena , Self-Contained Earthquake Early Warning System Based on Characteristic Period Computed in the Frequency Domain, <i>Applied Sciences</i> 2025, 15(16), 9026. IF = 2.5 6. Donciu Codrin, Serea Elena , Temneanu Marinela, Residential Electricity Consumption Behaviors in Eastern Romania: A Non-Invasive Survey-Based Assessment of Consumer Patterns. <i>Energies</i> 2025, 18, 4883. IF=3.2 7. Serea Elena ; Donciu, C.; Temneanu, M.C., Complexities of lighting measurement and calculation, <i>Metrology</i> 2025, 5(4), 61; IF = 1.5 8. Donciu Codrin, Temneanu Marinela, Serea Elena , Direct FFT oversampling without zero-padding, <i>Scientific Reports</i> 2025, 15:37269, IF=3.9 9. Serea Elena , Codrin Donciu, Marinela Costel Temneanu. Iterative	$(25+20*factor\ impact^{[2]})/nr.\ autori$ $(25+20*2,1)/3=22.33$ $(25+20*0,7)/3=13$ $(25+20*2.5)/6=12.5$ $(25+20*2,5)/3=25$ $(25+20*2,5)/3=25$ $(25+20*3,2)/3=29,66$ $(25+20*1,5)/3=18,33$ $(25+20*3,9)/3=34,33$ $(25+20*3,5)/3=$

				<p>Amplitude Equalization for Frequency Estimation (IAE-DFT), <i>Sensors</i> 2025, 25(23):7344. IF=3.5</p> <p>10. Temneanu M.C, Docniu C., Serea Elena, Distance Measurement Between a Camera and a Human Subject Using Statistically Determined Interpupillary Distance. <i>AppliedMath</i> 2025, 5, 118. IF = 0.7</p> <p>11. Donciu, C.; Serea, Elena; Temneanu, M.C. Frequency Seismic Response for EEWS Testing on Uniaxial Shaking Table. <i>Entropy</i> 2023, 25, 655. IF = 2</p> <p>12. Serea Elena, Penciu, M.; Temneanu, M.C.; Donciu, C. Video Distance Measurement Technique Using Least Squares Based Sharpness Cost Function. <i>Mathematics</i> 2022, 10, 3273. IF=2.2</p> <p>13. Dorin Lucache, Adrian Bulgaru, Dan Ioachim, Elena Dănilă, On electro-dewatering a cellulosic sludge, <i>Environmental Engineering and Management Journal</i>, vol. 8, nr. 2, apr. 2009, ISSN 1582-9596 , pg.266-271. IF=0.9</p> <p><u>Volume proceedings (WOS):</u></p> <p>1. Elena Dănilă, Dorin Dumitru Lucache, Efficient Lighting System for Gre,,enhouses, International Conference and Exposition on Electrical and Power Engineering 2016, 978-1-5090-6129-7/16.</p> <p>2. Elena Dănilă, Gheorghe Livint, and Dorin Dumitru Lucache. "Dynamic modelling of supercapacitor using artificial neural network technique." 2014 International Conference and Exposition on Electrical and Power Engineering. IEEE, 2014.</p> <p>3. Elena Dănilă, Daniel Sticea, Gheorghe Livinț, Dorin Dumitru Lucache, "Hybrid backup power source behaviour in a microgrid", Proceedings of International Conference and Exposition on Electrical and Power Engineering 2014, pg. 637-641, ISSN 978-1-4799-5848-1, IEEE Explore DOI: 10.1109/ICEPE.2014.6969987</p> <p>4. Elena Dănilă, Dorin Lucache, „Run-time optimization of hybrid energy source from an UPS back-upping critical consumer”, 14th International Conference on Optimization of Electrical and Electronic Equipment 2014, IEEE Explore și ISI Proceedings, pg.661-666, ISBN 978-1-4799-5183-3. DOI: 10.1109/OPTIM.2014.6850942.</p> <p>5. Elena Dănilă, Dorin Lucache, Dan Ioachim, Improving quality</p>	<p>31,66</p> <p>(25+20*0,7)/3=13</p> <p>(25+20*2)/3= 21,66</p> <p>(25+20*2.2)/3= 23</p> <p>(25+20*0,9)/4= 10.75</p> <p>25/2=12.5</p> <p>25/3=8.33</p> <p>25/4=6.25</p> <p>25/2=12.5</p>
--	--	--	--	--	---

				of learning during practical laboratories by using preformed (standard) reports” - 6th International Seminar on Quality Management in Higher Education 2010 ISI Proceedings, pg.407-411, ISBN: 978-973-662-568-8.	25/3=8.33
				6. Elena Dănilă , Dorin Lucache, Cătălin Damian, “Risks in change management of engineering higher education” - 6th International Seminar on Quality Management in Higher Education 2010 ISI Proceedings, pg.51-55, ISBN: 978-973-662-568-8.	25/3=8.33
				7. Yosef Elia;Dorin Dumitru Lucache; Elena Serea , Battery Energy Storage Applications: Two Case Studies, 2019 8th International Conference on Modern Power Systems (MPS), DOI: 10.1109/MPS.2019.8759797,	25/3=8.33
				8. Rakotomalala Lovasoa, Randriamanantany Zely, Dorin Dumitru Lucache, Elena Dănilă , Lens impact investigation on photometric parameters of some LED luminaires for exterior lighting, 2016 International Conference on Applied and Theoretical Electricity (ICATE), DOI: 10.1109/ICATE.2016.7754677.	25/4=6.25
				9. Rakotomalala Lovasoa F.F., Zely R. Kebe, Fadel C.M., Elena Dănilă , Lucache Dorin D.,High energy saving for Africa street lighting using individual automatic dimming of HID ballasts", International Conference and Exposition on Electrical and Power Engineering 2014, pg. 683-688, IEEE Explore DOI: 10.1109/ICEPE.2014.6969996.	25/5=5
				10. Rakotomalala L.F.F, Randriamanantany Z.A, Dorin Dumitru Lucache, Elena Dănilă , Energetic aspects of the HID ballast used in the outdoor lighting” - International Conference and Exposition on Electrical and Power Engineering, 2012, pg. 340-346, ISBN 978-1-4673-1173-1, DOI: 10.1109/ICEPE.2012.6463606.	25/4=6.25
				11. Dorin Lucache, Adrian Bulgaru, Dan Ioachim, Dănilă Elena , Management of the sludge wastes in the pulp and paper industry” — The 6th International Conference On Management Of Technological Changes, Greece 2009, ISBN (vol.2) 978-960-89832-8-1, pg.113-116.	25/4=6.25
				Total 2.1 = 368,54 pct.	
		2.2. Articole în	2.2.2. Conferențiar -	<u>Reviste BDI</u>	20/nr. de autori

		reviste și în volumele unor manifestări științifice indexate în alte baze de date internaționale (BDI ^[3])	minimum 15 articole din care minimum 2 în reviste	<ol style="list-style-type: none"> 1. Serea Elena, Donciu Codrin. Shaking Table Design for Testing Earthquake Early Warning Systems. Designs 7.3 (2023): 72. 2. Serea Elena, Penciu Mihai, Temneanu Marinel, Donciu Codrin, Video distance measurement method based on three focus positions, 2022, Buletin IPI, vol.68 (72), No.1, pp.9-16, DOI 10.2478/bipie-2022-0001. 3. Serea Elena, Donciu Codrin. Eye safety awareness and visual impairment prevention for computer users. Journal of Clinical Research Ophthalmology 2022, 9(2): 022-024. DOI: 10.17352/2455-1414.000099 4. Serea Elena, Roco Nelca. "Particularities in the Design of Underwater Lighting Systems." Journal of Civil Engineering and Architecture 16 (2022): 420-424. 5. Elena Dănilă, Cătălin Damian, Dorin Dumitru Lucache, Energy management in a laboratory computer grid”, Buletinul AGIR nr.2 aprilie-iunie 2012, ISSN – L 1224-7928 (BDI: Index Copernicus International, ICV 2012 5,14), DOI: 10.13140/2.1.4087.8406. 6. Cătălin Damian, Cristian Zet, Elena Dănilă Minimizing the fir filter area used in a FPGA power computing instrument”, Buletinul AGIR nr.2 aprilie-iunie 2012, ISSN – L 1224-7928 (BDI: Index Copernicus International, ICV 2012 5,14). 7. Elena Dănilă, Dorin Dumitru Lucache, Autonomy improvement of data center backup sources with supercapacitors" -, Acta Electrotehnica Journal (BDI: VINITI), volume 54, no.5, 2013, ISSN 1841-3323, pg. 147-152. DOI: 10.13140/2.1.3825.6968. 8. Elena Dănilă, Dorin Dumitru Lucache, PV power source estimation for a custom-designed growing-plant lighting system”, Acta Electrotehnica, Proceedings of 6th International Conference on Modern Power Systems 2015, pg. 77-82 9. Elena Dănilă, Gheorghe Livinț, Electrical parameter estimation of supercapacitor with equivalent model”, Buletinul Institutului Politehnic din Iași, Tomul LXI (LXV), Fasc. 1, 2015, Secția Electrotehnică. Energetică. Electronică, pg. 27-36 10. Lucache D.D., Galatanu D.C., Dănilă Elena, „Factors Involved in Choosing LEDs for General Lighting Applications: 	<p>20/2=10</p> <p>20/4=5</p> <p>20/2=10</p> <p>20/2=10</p> <p>20/3=6.66</p> <p>20/3=6.66</p> <p>20/2=10</p> <p>20/2=10</p> <p>20/2=10</p> <p>20/3=6.66</p>
--	--	--	---	--	--

			<p>a Critical Review", Analele Universitatii din Craiova, Serie Inginerie electrica, Anul 39, nr.39, ISSN 1842-4805, pp. 138-143, 2015.</p> <p>11. Elena Dănilă, Dorin Lucache, Cost effectiveness of growing plant lighting system, Journal of Electrical Engineering, 2013, 13(4), pp. 224–229</p> <p><u>Volume proceedings BDI</u></p> <p>1. Balan, G., Serea Elena, A Cost-Effective Continous Thermal Monitoring Solution for Electrical Panels Using Thermocouples, 2025 International Conference on Electromechanical and Energy Systems (SIELMEN) pp. 466-471, doi: 10.1109/SIELMEN67352.2025.11260682.</p> <p>2. Balan, G., Serea Elena, Andrinirinaimalaza, F. P., Lucache, D. D., Sălceanu, A., Nenninger, P. Digital Twin Approach for Headlamps Testing and Control. In 2025 International Aegean Conference on Electrical Machines and Power Electronics (ACEMP) & 2025 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) (pp. 1-7). IEEE.</p> <p>3. D. D. Lucache, Y. Elia, Elena Serea (Dănilă), C. D. Gălățanu, "Grid support by BESS. Benefits for a Solar Thermal Plant," 2023 10th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, 2023, pp. 1-7, doi: 10.1109/MPS58874.2023.10187444.</p> <p>4. Elena Serea, M. C. Temneanu, C. Donciu, "Opto-Guard: Non-invasive System of Continuous User Assurance of Keeping the Optimal Distance of the Eyes from the Computer Screen," 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 2022, pp. 1-5, doi: 10.1109/EPE56121.2022.9975793.</p> <p>5. Elena Serea, M. C. Temneanu, C. Donciu and G. Roșu, "Video Method for Estimating the Apparel Worn Size," 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 2022, pp. 364-367, doi: 10.1109/EPE56121.2022.9959746.</p> <p>6. Elena Serea, M. C. Temneanu, C. Donciu and M. Berdan, "Influence of Household Tools in Regional Configuration of</p>	<p>20/2=10</p> <p>20/2=10</p> <p>20/6=3.33</p> <p>20/4=5</p> <p>20/3=6.66</p> <p>20/4=5</p>
--	--	--	--	---

		<p>Earthquake Early Warning Systems," 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 2022, pp. 376-381, doi: 10.1109/EPE56121.2022.9959812.</p> <p>7. George Balan, Serea Elena, Dorin Dumitru Lucache, Critical Issues in the Design and Operation of Electrical Installations in Hospitals, 2021 International Conference on Electromechanical and Energy Systems (SIELMEN), 2021, pp. 503-510, doi: 10.1109/SIELMEN53755.2021.9600413.</p> <p>8. Elena Serea, D. D. Lucache, "Consequences of Inappropriate Use of Architectural Lighting," 2020 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 2020, pp. 016-021.</p> <p>9. Elena Dănilă, Dorin Dumitru Lucache, Gheorghe Liveș, Models and modelling supercapacitors for a defined application” -, 8th international conference on electromechanical and power systems, Annals of the University of Craiova, Electrical Engineering series, No. 35, 2011; ISSN 1842-4805, pg.200-205.</p>	<p>20/4=5</p> <p>20/3=6.66</p> <p>20/2=10</p> <p>20/3=6.66</p>
		Total 2.2 = 153,29 pct	
	2.3 Brevete de invenție indexate în alte baze de date	2.3.1.internationale	25/nr. de autori
		2.3.2. nationale	15/nr.de autori
	2.4. Granturi / proiecte câștigate prin competiție națională/internațională ^[4]	2.4.1 Director/ responsabil proiect partener Minim 1 pentru Conferențiar	2.4.1.1.Internaționale
			20*ani de desfășurare
			2.4.1.2.Naționale
		Sistem de control și monitorizare în timp real a irigațiilor, pentru optimizarea consumurilor de energie și apă, cod SMIS 338187, PR/NE/2024/P1/RSO1.1 RSO1.3/1	10*ani de desfășurare 10*4 = 40
		2.4.2. Membru în echipă	2.4.2.1.Internaționale
			4 *ani de desfășurare
		2.4.2.2.Naționale – adeverință Polytech 34018/18.09.2025	2 *ani de desfășurare
		– EXOSLIM – PN-II-PT-PCCA 180/2012,	2*5=10
		– IHRG - PN-II-PT-PCCA-2011-3.1-0291, 150/2012	2*5=10
		– NOVAFES 267/2014 UEFISCDI.	2*3=6
		– GI/P25/2021	2*1=2
		– POR/2019/1/1.1/OS 1.2/1, Cod SMIS: 137414	2*3=6

		2.5. Contracte de cercetare/consulta nta (valoare echivalenta de minim 2 000 Euro)	2.5.1. Director/ Responsabil proiect partener	Opto-Guard, GI / MedTech_5 /2022 in cadrul CNFIS-FDI-2022-0460, valoare 20 000 lei	5*ani de desfășurare 5*0,25=1.25
			2.5.2. Membru în echipă		2*ani de desfășurare
3.	Recunoașterea și impactul activității (A3)	3.1. Citări în reviste WOS si volumele conferințelor WOS ^[5]	3.1.2.Conferențiar - minimum 7 citari	<p>Elena Dănilă, Dorin Lucache, Dan Ioachim / <i>Improving quality of learning during laboratory works by using preformed reports</i> // 6th International Seminar on Quality Management in Higher Education 2010 Proceedings, pg.407-411, ISBN: 978-973-662-568-8.</p> <p>CITATĂ de:</p> <ol style="list-style-type: none"> 1. Maged Henary, Eric A. Owens, Joseph G. Tawney / Creative Report Writing in Undergraduate Organic Chemistry Laboratory Inspires Nonmajors // Journal of Chemical Education (Impact Factor: 1). 11/2014; 92(1). DOI: 10.1021/ed5002619 RF Lovasoa, RA Zely, Lucache Dorin, Dănilă Elena, <i>Energetic aspects of the HID ballast used in the outdoor lighting</i> - Conference: Electrical and Power Engineering (EPE), 2012 International Conference and Exposition on <p>CITATĂ de:</p> <ol style="list-style-type: none"> 2. <i>Flexible resonant tank for a combined converter to achieve an HPS and LED compatible driver</i>, Jin Hu, Hui-pin Lin, Zheng-yu Lu, Feng-wu Zhou Article in Frontiers of Information Technology & Electronic Engineering 16(8):679-693 · August 2015, Impact Factor: 0.392 · DOI: 10.1631/FITEE.1500054 3. <i>Energy savings analysis and harmonics reduction for the electronic ballast of T5 fluorescent lamp in a building's lighting.</i>, P. Chiradeja, A. Ngaopitakkul, C. Jettanasen // Article in Energy and Buildings 97:107-117 · June 2015, Impact Factor: 2.88 · DOI: 10.1016/j.enbuild.2015.03.042 <p>Elena Dănilă, Dorin Dumitru Lucache, <i>PV power source estimation for a custom-designed growing-plant lighting system</i>, Acta Electrotehnica, Proceedings of 6th International Conference on Modern Power Systems 2015, pg. 77-82</p> <p>CITATĂ de:</p>	<p>5/nr. autori ai articolului citat</p> <p>5/3=1.66</p> <p>2*(5/4)=2.5</p> <p>5/2=2.5</p>

				<p>4. Yue Lu, Jian Yu// Comparison analysis on the energy efficiencies and biomass yields in microbial CO2 fixation// Process Biochemistry Elsevier 2017, vol.62, pg. 151-160. Impact Factor: 2,497.</p> <p>Elena Dănilă, Dorin Dumitru Lucache, Gheorghe Livinț // <i>Models and modelling the supercapacitors for a defined application</i>// Annals of the University of Craiova, Electrical Engineering series 2011</p> <p>CITATĂ de:</p> <p>5. Ahmad, Hadiza, Wong Yee Wan, and Dino Isa. "Modeling the ageing effect of cycling using a supercapacitor-module under high temperature with electrochemical impedance spectroscopy test." IEEE Transactions on Reliability 68.1 (2018): 109-121.</p> <p>6. Sehil, K., and M. Darwish. "Critical analysis of power conversion topologies for stand-alone PV systems with super-capacitor." International Journal of Computers and Applications 39.4 (2017): 179-188.</p> <p>7. Mohamed Haikel Chehab, Chokri Ben Salah, Ruben Zieba Falama, Mehdi Tlija, Abdelhamid Rabhi, "Comparative Analysis of Energy Storage Technologies for Microgrids", International Transactions on Electrical Energy Systems, vol. 2023, Article ID 6679740, 24 pages, 2023.</p> <p>8. Mehra, Pranathi, Sahaj Saxena, and Suman Bhullar. "A Comprehensive Analysis of Supercapacitors and Their Equivalent Circuits—A Review." World Electric Vehicle Journal 15.8 (2024): 332.</p> <p>Elena Dănilă, Gheorghe Livinț, Dorin Dumitru Lucache, <i>Dynamic modelling of supercapacitor using artificial neural network technique</i>, 2014</p> <p>CITATĂ de:</p> <p>9. Yanyan Fang, Qianyu Zhang, Lifeng Cui, Recent progress of mesoporous materials for high performance supercapacitors, Microporous and Mesoporous Materials, Volume 314, 2021,110870,ISSN 1387-1811.</p> <p>10. Hui, Z., Gu, N., Li, H. et al. Design of NiCo2O4 nanoarray morphology for optimizing electrochemical stability of supercapacitor. Journal of Solid State Electrochem (2024). https://doi.org/10.1007/s10008-024-05840-7</p>	<p>4*(5/3)=6.66</p> <p>6*(5/3)=10</p>
--	--	--	--	---	---------------------------------------

				<p>11. Jannif NI, Kumar RR, Mohammadi A, Cirrincione G, Cirrincione M. Constrained Least-Squares Parameter Estimation for a Double Layer Capacitor. <i>Energies</i>. 2023; 16(10):4160.</p> <p>12. Sial, Qadeer Akbar, et al. "Advancement in supercapacitors for IoT applications by using machine learning: current trends and future technology." <i>Sustainability</i> 16.4 (2024): 1516.</p> <p>13. Rahimi, M., Abbaspour-Fard, M. H., & Rohani, A. (2021). A multi-data-driven procedure towards a comprehensive understanding of the activated carbon electrodes performance (using for supercapacitor) employing ANN technique. <i>Renewable Energy</i>, 180, 980-992.</p> <p>14. A. Almuamri, F. Soysal and S. kocaoglu, "Capacitance Classification for Supercapacitors Using Machine Learning," in <i>IEEE Access</i>, vol. 13, pp. 53116-53123, 2025.</p> <p>Rakotomalala Lovasoa F.F., Zely R. Kebe, Fadel C.M., Elena Dănilă, Lucache Dorin D., "High energy saving for Africa street lighting using individual automatic dimming of HID ballasts", International Conference and Exposition on Electrical and Power Engineering 2014, pg. 683-688, IEEE Explore.</p> <p>CITATĂ de:</p> <p>15. Yoomak, Suntiti, et al. "Comparative study of lighting quality and power quality for LED and HPS luminaires in a roadway lighting system." <i>Energy and Buildings</i> 159 (2018): 542-557.</p> <p>16. Skandali, Christina, et al. "Reviewing the parameters that affect sustainability and energy efficient concepts in road and urban lighting design." <i>Journal of Cleaner Production</i> 490 (2025): 144607.</p> <p>Elena Dănilă, Dorin Dumitru Lucache, <i>Efficient Lighting System for Greenhouses</i>, International Conference and Exposition on Electrical and Power Engineering (EPE 2016), 978-1-5090-6129-7/16.</p> <p>CITATA de:</p> <p>17. Napat Watjanatepin, Effect of three specific spectra of LED light on the growth, yield, and fruit quality of Sida tomato, 2019 International Journal of Advanced and Applied Sciences 6(6):15-21</p>	<p>2*(5/5)=2</p> <p>6*(5/2)=15</p>
--	--	--	--	--	------------------------------------

				<p>18. Yuxuan Fan et al, 2022 Journal of Physics D: Applied Physics, 55 315103</p> <p>19. Williams, Krystal, et al. "Tools and Techniques to Accelerate Crop Breeding." <i>Plants</i> 13.11 (2024): 1520.</p> <p>20. Wielgat, Robert, et al. "A concept of smart agro-photovoltaic tunnels." <i>IEEE Access</i> 12 (2024): 40765-40794.</p> <p>21. Romero-Romo, W., et al. "Photoluminescence and Judd-Ofelt studies on Pr³⁺ activated CdO-B₂O₃ invert glasses: Advanced reddish solutions for crop illumination." <i>Ceramics International</i> 51.8 (2025): 10159-10168.</p> <p>22. Villagran, Edwin, et al. "Use of Lighting Technology in Controlled and Semi-Controlled Agriculture in Greenhouses and Protected Agriculture Systems—Part 1: Scientific and Bibliometric Analysis." <i>Sustainability</i> 17.4 (2025): 1712.</p> <p>Rakotomalala Lovasoa, Randriamanantany Zely, Dorin Dumitru Lucache, Elena Dănilă, <i>Lens impact investigation on photometric parameters of some LED luminaires for exterior lighting</i>, 2016 International Conference on Applied and Theoretical Electricity (ICATE), DOI: 10.1109/ICATE.2016.7754677. ISI Proceedings.</p> <p>CITATA de:</p> <p>23. Jeykishan Kumar, K., Bharath Kumar, G. & Sudhir Kumar, R. <i>Photometric assessment of warm and cool white LED bulbs</i>. Journal of Optics 49, 476–484 (2020).</p> <p>Dănilă Elena, Lucache DD. 2013. Cost effectiveness of growing plant lighting system. Journal of Elec Eng. 13:224–229.</p> <p>CITATA de:</p> <p>24. Muhammet Dogan , The effectiveness of light emitting diodes on shoot regeneration in vitro from shoot tip tissues of <i>Limnophila aromatica</i> (Lamk.) Merr. and <i>Rotala rotundifolia</i> (Buch-Ham. ex Roxb) Koehne, Biotechnic & Histochemistry Volume 95, 2020 - Issue 3, pg.225-232.</p> <p>25. Mushahary, Rebekha, et al. "A systematic review on phytoremediation of indoor air pollution." <i>Journal of Air Pollution and Health</i> 9.2 (2024): 255-278.</p> <p>26. Dimitrakis, Anastasios, et al. "A New Approach to Street Lighting Design through Led Technology and Optical System Optimization." <i>2025 Tenth Conference on Lighting</i></p>	<p>5/4=1.25</p> <p>3*(5/2)=7.5</p>
--	--	--	--	---	------------------------------------

				<p>35. Kang, Hyuna, et al. "How to better share energy towards a carbon-neutral city? A review on application strategies of battery energy storage system in city." <i>Renewable and Sustainable Energy Reviews</i> 157 (2022): 112113.</p> <p>36. Wang, Zeming, et al. "A review of first-principles calculations on layered metal oxide cathode materials for sodium-ion batteries." <i>Materials Today Communications</i> (2024): 110545.</p> <p>Elena Dănilă, Dorin Dumitru Lucache, Autonomy improvement of data center backup sources with supercapacitors" -, <i>Acta Electrotehnica Journal</i> (BDI: VINITI), volume 54, no.5, 2013, ISSN 1841-3323, pg. 147-152.</p> <p>Citata de :</p> <p>37. Vidya Amarapala, Abdul Salam K. Darwish, Peter Farrell, Storage of wind power energy: main facts and feasibility – hydrogen as an option, <i>Renew. Energy Environ. Sustain.</i> 8, 16 (2023)</p> <p>Elena Serea, D. D. Lucache, "Consequences of Inappropriate Use of Architectural Lighting," 2020 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 2020, pp. 016-021.</p> <p>Citată de:</p> <p>38. Galatanu, Catalin Daniel, and Laurent Canale. "The importance of technical regulations for reducing light pollution." <i>IEEE Transactions on Industry Applications</i> (2025).</p> <p>39. Tomasovits, M., et al. "The impact of facade lighting on environmental sustainability: Investigation methods." <i>Renewable and Sustainable Energy Reviews</i> 210 (2025): 115246.</p> <p>40. Li, Shengyuan, and Zhonghua Gou. "Energy efficiency and cost benefits of office-to-residential building transformation: Insights from Los Angeles." <i>Journal of Building Engineering</i> 98 (2024): 111496.</p> <p>Donciu C.; Serea Elena; Temneanu, M.C. Frequency Seismic Response for EEWS Testing on Uniaxial Shaking Table. <i>Entropy</i> 2023, 25, 655</p> <p>Citată de:</p> <p>41. Zhang, Bing, et al. "Research on modal decoupling control</p>	<p>5/2=2.5</p> <p>3*(5/2)=7.5</p> <p>5/3=1.66</p>
--	--	--	--	---	---

				<p>strategy of hydraulic redundant 6-dof shaking table." Journal of Mechanical Science and Technology (2024): 1-15.</p> <p>Serea Elena, Donciu Codrin. Shaking Table Design for Testing Earthquake Early Warning Systems. Designs 7.3 (2023): 72.</p> <p>Citată de:</p> <p>42. Goap, Amarendra, et al. "An IoT-Based Architectural Framework for Earthquake Warning System Using Low-cost Heterogeneous Seismic Sensors." Arabian Journal for Science and Engineering (2025): 1-16.</p> <p>Donciu Codrin, Serea Elena, Temneanu Marinela, Frequency domain estimation method of the characteristic period of the P wave of earthquakes. Frontiers in Physics, 2025,13:1496451.</p> <p>Citată de:</p> <p>43. Hatano, Daichi, and Nanako Miura. "Time-varying damping switching condition of semiactive control by optimal control using the predominant frequency calculated from earthquake acceleration data." Nondestructive Characterization and Monitoring of Advanced Materials, Aerospace, Civil Infrastructure, and Transportation XIX. Vol. 13436. SPIE, 2025.</p>	<p>5/2=2.5</p> <p>5/3=1.66</p>
		3.2 Citări în revistele BDI si volumele conferințelor BDI ^[5]	3.2.2.Conferențiar - minimum 10 citari	<p>RF Lovasoa, RA Zely, Lucache Dorin, Dănilă Elena, <i>Energetic aspects of the HID ballast used in the outdoor lighting</i> - Conference: Electrical and Power Engineering (EPE), 2012 International Conference and Exposition on</p> <p>CITATĂ de:</p> <p>1. N. Suttisinthong, B. Seewirote, A. Ngaopitakkul and C. Jettanasen, "Feasibility study and impact of energy consumption reduction using T5 fluorescent lamp in building," 2014 International Conference on Intelligent Green Building and Smart Grid (IGBSG), Taipei, Taiwan, 2014, pp. 1-4</p> <p>Elena Dănilă, Dorin Dumitru Lucache, <i>PV power source estimation for a custom-designed growing-plant lighting system</i>, Acta Electrotehnica, Proceedings of 6th International Conference on Modern Power Systems 2015, pg. 77-82</p> <p>CITATĂ de:</p> <p>2. Constantin-Daniel Oancea, Tiberiu Tudorache, Conditioning</p>	<p>3/nr. autori ai articolului citat</p> <p>3/4=0.75</p> <p>3/2=1.5</p>

			<p>circuit for assessing the performance of renewable energy sources, 22nd IMEKO TC4 International Symposium & 20th International Workshop on ADC Modelling and Testing, 2017.</p> <p>Elena Dănilă, Dorin Dumitru Lucache, Gheorghe Livinț // <i>Models and modelling the supercapacitors for a defined application</i>// Annals of the University of Craiova, Electrical Engineering series 2011</p> <p>CITATĂ de:</p> <ol style="list-style-type: none"> 3. J Kapica, M Kuna-Broniowski, P Makarski , <i>Supercapacitors as storage of modern energy systems</i>, Logistyka 6/2014 - czasopismologistyka.pl 4. IJ Rashmi, VS Prabhin, Impedance Response And Characterization Of Nano Porous Current Collector - ICTACT JOURNAL ON MICROELECTRONICS, april 2016, volume: 02, issn: 2395-1680 5. WP Hong, A Matlab/Simulink-Based PV array-Supercapacitor Model Employing SimPowerSystem and Stateflow Tool Box- Journal of the Korean Institute of Illuminating and Electrical Installation Engineers, 2014 - dev02.dbpia.co.kr 6. Turkar, Kirti Kumar, Pallavi Singh Bondriya, and P. A. Pawar. Simulation Development of Ultra Capacitor Bank in Energy Management Strategies Through Regenerative Braking in Diesel Locomotive - Novateur Publications International Journal of Innovations in Engineering Research and Technology ISSN: 2394-3696 volume 2, issue 2 feb.- 2015. 7. Kyuwon Jeong, Jaeyoul Shin, Experimental Characteristics Examination of a Hybrid-Type Supercapacitor, Journal of The Korean Society of Manufacturing Technology Engineers, 2016. Vol.25 No.4, 2016.8, 307-311. 8. Constantin-Daniel Oancea, Power Factor Evaluation in Data Acquisition Systems, IDAACS'2017, IEEE proceedings, DOI: 10.1109/IDAACS.2017.8095127 9. Fomin V.V., Tsyruk S.A., Ryzhkova Y.N. Supercapacitor based uninterruptible power supply for direct current electrical grids. Alternative Energy and Ecology (ISJAEE). 2015;(22):102-114 	12*(3/3)=12
--	--	--	--	-------------

			<ol style="list-style-type: none"> 10. Oancea Constantin Daniel, Analysis of the performance of the mark-space method for determining the power in single-phase circuits, International Conference on Electromechanical and Power Systems (SIELMEN) IEEE, 2017. 11. Prasad, G. Gautham, et al. "Supercapacitor technology and its applications: a review." IOP Conference Series: Materials Science and Engineering. Vol. 561. No. 1. IOP Publishing, 2019. 12. Oancea Constantin Daniel, and Florin Calin. "Possibilities to Reduce the Transient Regime for Some Circuits Connected to the Single-Phase Network." 2021 12th International Symposium on Advanced Topics in Electrical Engineering (ATEE). IEEE, 2021. 13. Choudhury, Subhashree, et al. "A Supervisory State of Charge and State of Power Management Control Strategy among Hybrid Energy Storage Systems through Thermal Exchange Optimization Technique." 2020 IEEE Calcutta Conference (CALCON). IEEE, 2020. 14. Oancea, Constantin Daniel. "Aspects of Voltage Distribution in Capacitor Batteries." 2018 International Conference and Exposition on Electrical And Power Engineering (EPE). IEEE, 2018. <p>Elena Dănilă, Gheorghe Livinț, Dorin Dumitru Lucache, <i>Dynamic modelling of supercapacitor using artificial neural network technique</i>, 2014</p> <p>CITATĂ de:</p> <ol style="list-style-type: none"> 15. Madzharov, Nikolay, and Valeri Petkov, <i>Innovative solution of static and dynamic contactless charging station for electrical vehicles</i>, PCIM Europe 2016 (International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management 10.05.2016 - 12.05.2016 in Nürnberg, Deutschland). 16. Nayzel Imran Jannif, Giansalvo Cirrincione, Maurizio Cirrincione, Ali Mohammadi, Gianpaolo Vitale, <i>Experimental application of least-squares technique for estimation of double layer super capacitor parameters</i>, 20th International Conference on Electrical Machines and Systems 	5*(3/3)=5
--	--	--	--	-----------

			<p>2017 DOI: 10.1109/ICEMS.2017.8056238</p> <p>17. Madzharov, Nikolay, and Goran Goranov. "Converters with energy dosing for charging of EV's Li-ion batteries." (ICEST 2016): 285-288.</p> <p>18. Belkhodja, I. S. C. Mahjoubi, S. Hmam , JC Olivier , S. Skander Mustapha, M. Machmoum. AN IMPROVED SC DYNAMIC MODEL BY MEANS OF SIMSCAPE, ELECTRIMACS 2017</p> <p>19. Oancea, Constantin Daniel. "Aspects of Voltage Distribution in Capacitor Batteries." 2018 International Conference and Exposition on Electrical And Power Engineering (EPE). IEEE, 2018.</p> <p>Elena Dănilă, Daniel Sticea, Gheorghe Livinț, Dorin Dumitru Lucache <i>Hybrid backup power source behaviour in a microgrid</i>, 2014</p> <p>CITATĂ de 3 publicații:</p> <p>20. Madzharov, Nikolay, and Valeri Petkov, <i>Innovative solution of static and dynamic contactless charging station for electrical vehicles</i>, PCIM Europe 2016 (International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management 10.05.2016 - 12.05.2016 in Nürnberg, Deutschland).</p> <p>21. Madzharov N., <i>High-Frequency Power Source with Constant Output Power</i>, Journal of Engineering Science & Technology Review vol. 9(6), pg. 157-162, 2016</p> <p>22. Madzharov, N.D., Petkov, V.P., <i>Analysis of expedient operating modes of industrial IPT systems</i>, Acta Technica CSAV, Volume 62, Issue 1, 2017, Pages 93-106. (SCOPUS).</p> <p>23. Machina, S. P. C., Koduru, S. S., & Madichetty, S. (2022, January). Solar Energy Forecasting Using Deep Learning Techniques. In 2022 2nd International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC) (pp. 1-6). IEEE.</p> <p>Elena Dănilă, Dorin Dumitru Lucache, <i>Efficient Lighting System for Greenhouses</i>, International Conference and Exposition on Electrical and Power Engineering (EPE 2016), 978-1-5090-6129-7/16. ISI Proceedings.</p> <p>CITATA de:</p> <p>24. Randa Osama, Nour El-Huda Ashraf, et.al., <i>Greenhouse Plant</i></p>	<p>4*(³/₄)=3</p> <p>17*(³/₂)=25.5</p>
--	--	--	---	---

				<p><i>Growth Supervision with the LED Lights using Machine Learning</i>. In Proceedings of the 2020 9th International Conference on Software and Information Engineering (ICSIE) (ICSIE 2020). Association for Computing Machinery, New York, NY, USA, 169–173. DOI:https://doi.org/10.1145/3436829.3436847</p> <p>25. M. V. C. Caya, J. D. A. Villarama, N. B. Linsangan, W. Chung and J. L. Torres, "<i>Development of Automated LED Light Compensation System for Lycopersicon Esculentum</i>," 2019 IEEE International Conference on Consumer Electronics - Asia (ICCE-Asia), 2019, pp. 180-184.</p> <p>26. Mila Ilieva, <i>Led Development Trends - Functions, Management, Applications</i>, 2019, Conference: BulLight 2017, Balkan Light Junior 2017 proceedings ISSN 1314-0787.</p> <p>27. Wei Choon Ng, Nurul Amziah Md Yunus and Izhal Abdul Halin, <i>Design of Multicolour LED with Control and Monitoring System for Plant Growth</i>, MATEC Web Conf., 215 (2018) 01007 DOI:</p> <p>28. P P Dolgikh et al, <i>Technology for managing thermal energy flows in industrial greenhouses</i>, 2019 IOP Conf. Series: Mater. Sci. Eng. 537 062041</p> <p>29. Samani, Rahil, et al. "A multi-output AC/DC converter for LED grow lights." 2018 IEEE Energy Conversion Congress and Exposition (ECCE). IEEE, 2018.</p> <p>30. Shailesh, K. R. "Energy efficient LED lighting design for horticulture." 2019 1st International Conference on Advanced Technologies in Intelligent Control, Environment, Computing & Communication Engineering (ICATIECE). IEEE, 2019.</p> <p>31. Anggraeni, F. D., et al. "Application of automatic system for water stress treatment to produce high soluble solids tomato (<i>Solanum lycopersicum</i> Mill. cv Rinka 409)." IOP Conference Series: Earth and Environmental Science. Vol. 686. No. 1. IOP Publishing, 2021.</p> <p>32. Krzanowski, Roman. ONTOLOGICAL INFORMATION: Information in the Physical World. 2022.</p> <p>33. Al-Rukabi, Maad NM, et al. "The Effect of LED Lighting on The Growth of Seedlings of Hybrid Tomato." IOP Conference Series: Earth and Environmental Science. Vol. 910. No. 1. IOP</p>	
--	--	--	--	--	--

			<p>Publishing, 2021.</p> <p>34. Vegner, Igor Gass, et al. "Horticulture LEDs in Soybean Outdoor Light Supplementation-a Case Study." 2021 Joint Conference-11th International Conference on Energy Efficiency in Domestic Appliances and Lighting & 17th International Symposium on the Science and Technology of Lighting (EEDAL/LS: 17). IEEE, 2022.</p> <p>35. Yaacob, A. (2022). Direct detection of low concentration uric acid in the visible light spectrum utilizing spectroscopy method (Doctoral dissertation, Universiti Tun Hussein Onn Malaysia).</p> <p>36. Hussein, Samira. Preventing porphyrin aggregation and controlling microenvironments using mixed polymer micelles. Diss. University of Sheffield, 2019.</p> <p>37. Osama, R., Ashraf, N. E. H., Yasser, A., & Abd El-Fatah, S. (2019). Smart Planting.</p> <p>38. Taxir Bayzakov et al, Modeling the process of growing seeds of vegetable crops with ultraviolet light, 2023 IOP Conference Series: Earth and Environmental Science. 1231 012065.</p> <p>39. Ortega, Lance Eian B., et al. "LED light greenhouse with automatic water dispenser using Arduino Uno for indoor plants." International Journal of Research Studies in Educational Technology 8.3 (2024): 99-106.</p> <p>40. Svrčinová, Nikola. "Optimalizace nákladů na LED osvětlení ve vertikálních farmách." (2024).</p> <p>Dănilă Elena, Lucache DD. 2013. Cost effectiveness of growing plant lighting system. Journal of Elec Eng. 13:224–229.</p> <p>CITATA de:</p> <p>41. Doğanyigit, Züleyha, et al. "LPS'nin böbrek DNA'sı üzerine akut toksik etkisi ve apilarnilin koruyucu rolü." Eurasian Journal of Biological and Chemical Sciences 2 (2019): 111-114.</p> <p>42. Aviation's future energy requirements, Holmgren Holm, Leonard LU, (2021) FLYL01 20211, School of Aviation.</p> <p>43. BUYEYE, Zikhona. Comparative evaluation of small-scale vertical hydroponic structures against growing plants in soil with respect to growth parameters and resource use efficiencies.</p>	6*(3/2)=9
--	--	--	--	-----------

			<p>2021. PhD Thesis.</p> <p>44. KOH, Yeonsu. The effect of oligosaccharides in an extract of the brown seaweed <i>Ascophyllum nodosum</i> on plant growth and plant immune responses in soybean (<i>Glycine max</i> L.) and duckweed (<i>Lemna minor</i>). 2016.</p> <p>45. Chirkova, I. G., Bolgov, A. D. (2019). Development of High-Tech Food Production: Socio-Economic and Territorial Aspects (Monograph). Novosibirsk: Novosibirsk State Technical University Publishing House. 180 p. ISBN 978-5-7782-4046-9.</p> <p>46. Dogan, M. Farklı ışık yayan diyotlar (LED) altında tıbbi sucül bitki <i>Lysimachia nummularia</i> L.'nin boğum eksplantlarından çoklu sürgün rejenerasyonu. Eurasian Journal of Biological and Chemical Sciences, 2019, 2(1), 11-16.</p> <p>Dănilă, Elena, Dorin Dumitru Lucache. "History of the First Energy Storage Systems." Paper delivered at the 3rd International Symposium on the History of Electrical Engineering and of Tertiary-Level Engineering Education. 2010.</p> <p>CITATA de:</p> <p>47. Nybeck, Charles N. Electrochemical Energy Storage Integration Challenges within High Voltage Distributed Generation Power System Architectures. Diss. The University of Texas at Arlington, 2019.</p> <p>48. Eeles, David, et al. "Energy Storage: The Regulatory Landscape in Alberta." Alberta Law Review (2021): 355-355.</p> <p>49. Yasin Naman, M. "Overview and Analysis for Compressed Air in Energy Storage.", 2019</p> <p>50. Tokur, Mahmud. "Çok bileşenli hibrit nanomimarili silisyum/karbon nanofiber negatif elektrotların geliştirilmesi." (2019).</p> <p>51. Nair, Nadiya. "Energy Storage Policies and its Transformational Role in EU's Energy Paradigm Shift." 2018</p> <p>52. Branco Roque Da Nazare Ferreira, "Pumped hydroelectric storage systems: technical review and economic assessment." (2019).</p> <p>53. Asri, L. I. M., et al. "Comparative Study of Energy Storage Systems (ESSs)." Journal of Physics: Conference Series. Vol. 1962. No. 1. IOP Publishing, 2021.</p>	13*(3/2)=19.5
--	--	--	---	---------------

		<p>54. Johnson, Richard. Battery Energy Storage Systems for Low Voltage Network Management. Diss. University of Sheffield, 2018.</p> <p>55. EMEKSİZ, Cem, and K. A. R. A. Burak. "Enerji Depolama Teknolojilerinin İncelenmesi ve Karşılaştırmalı Analizi." International Journal of Multidisciplinary Studies and Innovative Technologies 6.2 (2022): 134-142.</p> <p>56. Nascimento, Viviane Tavares. Estruturação estratégica da viabilidade social, técnica e de mercado para a transitabilidade de BESS voltado ao crescimento de geradores distribuídos e transição energética. Diss. Universidade de São Paulo, 2022.</p> <p>57. Dineshini, Ganeshmoorthy. Production of sustainable methanol from plastic wastes by green energy to optimize landfill area/Dineshini Ganeshmoorthy. Diss. Universiti Malaya, 2022.</p> <p>58. Deresso, Habtamu, Venkata Ramayya Ancha, and Ramesh Babu Nallamothu. "Experimental investigation of Bio-ethanol blend ratios effect on RCCI Diesel Engine Combustion." <i>CONTEMPORARY PROBLEMS OF POWER ENGINEERING AND ENVIRONMENTAL PROTECTION</i> 2022: 106.</p> <p>59. Ibro, M.; Ancha, V.R.; Beyene, D. <i>Biodegradability and Kinetics of Anaerobic Co-Digestion of Coffee Husk with Food Waste: Effect of Mixing Ratio and Initial pH Value</i>. In <i>Proceedings of the Environmental Protection and Energy Conference 2023, Gliwice, Poland, 2023</i>; ISBN 978-83-964116-5-5, pp. 52–66.</p> <p>Serea Elena, Donciu Codrin. Eye safety awareness and visual impairment prevention for computer users. Journal of Clinical Research Ophthalmology 2022, 9(2): 022-024. DOI: 10.17352/2455-1414.000099</p> <p>CITATA de:</p> <p>60. Immaculata, Ojimba M., and Nwafia W. Chukwuma. "Ergonomic and Ophthalmic Risk Factors for Ocular Discomfort in Computer Operators: A Case Study in Anambra State." <i>Sch Acad J Biosci</i> 5 (2025): 525-535.</p>	3/2=1.5
		Total 3.1+3.2 = 165.97 pct	
3.3.Prezentări invitate în plenul	Punctaj unic pentru fiecare	3.3.1.Internaționale ICATE 2024 https://elth.ucv.ro/icate/icate2024/2024/02/26/keynote-	20

		unor manifestări științifice naționale si internaționale și Profesor invitat (exclusiv POS, ERASMUS)	activitate	speakers/	
				3.3.2.Naționale	5
		3.4.Membru în colectivele de redacție sau comitete științifice al revistelor si manifestărilor științifice, organizator de manifestări științifice, Recenzor pentru reviste și manifestări științifice naționale si internaționale(punctajul se acorda pentru fiecare, revista, manifestare științifică și recenzie)		3.4.1. WOS 34 recenzii pentru reviste - conform profilului WOS: Web of Science Researcher IDAAJ-8050-2021) și 4 pentru manifestări științifice internaționale: – EPE 2014: ID753 – EPE 2016: ID 1920, ID 2032, ID 2056 Organizator - International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania (2014, 2016)	38*10=380 2*10=20
				3.4.2.BDI Recenzii pentru reviste și manifestări științifice naționale si internaționale: – Buletinul Institutului Politehnic din Iasi. Sectia Electrotehnica. Electronica. Energetica. 2021 (<i>Automated method for searching optimal solution in street lighting design</i>) 2022 (<i>Evolution of the manufacturing technology of photovoltaic panels and difficulties in the implementation</i>) – EPE 2018: ID 2389, ID 2475, ID 2635 – EPE 2020: ID 4034, ID 4038, ID 4042, ID 4118, ID 4289 – SIELMEN 2021: ID 9, ID 81 – EPE 2022: ID 133 și ID 153 – CSAE 2022 (The 6th International Conference on Computer Science and Application Engineering): ID CSAE63201 – EPE 2024: ID30, ID180 – SIELMEN 2025: ID33, ID126, ID 133, ID 136, ID 143, ID 191, ID 202, ID 206 Organizator - International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania 2022	25*6=150 6
				3.4.3.Naționale și Internaționale neindexate Organizator Simpozionul Științific Studentesc Internațional ELStudIS:	3*2=6

		ed.III 2024, ed.IV 2025	
3.5.Referent în comisii de doctorat		3.5.1.Internaționale	10
		3.5.2.Naționale Membru în comisia de îndrumare și examinare: <ul style="list-style-type: none"> • Drd. Moraru Adrian-Daniel (IOSUD UTCN), teza "Creșterea eficienței energetice la consumatorii industriali" • Drd. Balan George (IOSUD TUIASI), teza "Cercetări privind utilizarea tehnologiei digital twin în modelarea sistemelor electrice" 	2*5=10
3.6.Premii		Academia Romana	30
		ASAS, AOSR, academii de ramura și CNCS	15
		Premii internaționale	10
		Premii naționale în domeniu	5
3.7. Membru în academii, organizații, asociații profesionale de prestigiu, naționale și internaționale, apartenență la organizații din domeniul educației și cercetării	3.7.1. Academia Română		100
	3.7.2. ASAS, AOSR, Academii de ramură		30
	3.7.3. Conducere Asociații Profesionale	Internaționale	30
		Naționale	10
	3.7.4. Asociații profesionale	Internaționale	5
		Naționale	2
	3.7.5. Consilii și organizații în domeniul educației și cercetării	Conducere Membru al Consiliului Director al Fundatiei Universitare Gheorghe Asachi (2016-prezent)	15
		Membru Consiliul Facultății de Inginerie Electrică, Energetică și Informatică Aplicată în mandatul 2016-2020	10

Note:

- (1) Conform situației curente de pe site-ul WOS (Web of Science) Thomson Reuters; o revistă cunoscută WOS este echivalentă cu o revistă cunoscută ISI conform Ordinului de Ministru (MECTS) nr. 4478/ 23 iunie 2011, publicat în Monitorul Oficial, Partea I, Nr. 448 / 27.VI. 2011;
- (2) Factorul de impact al revistei menționate pe site-ul WOS în anul curent; pentru articolele în proceedings WOS și pentru brevetele indexate WOS – Derwent factorul de impact este considerat să fie zero;
- (3) Bazele de date internaționale (BDI) luate în considerare pentru articolele publicate în reviste și în volumele unor manifestări științifice, cu excepția articolelor publicate în reviste / proceedings cunoscute WOS, sunt cele recunoscute pe plan științific internațional: Scopus, IEEE Xplore, ELSEVIER Science Direct, Engineering Village, Compendex, INSPEC, Springerlink, Cabi, EBSCO, CSA ILLUMINA/PROQUEST, Index Copernicus și Ulrich's;
- (4) Nu se consideră în această categorie proiectele / granturile de tip POSDRU (POCU), POSCCE (POC), ERASMUS (ERASMUS +), COMENIUS, bursele postdoctorale și alte tipuri de proiecte similare care nu prezintă un caracter predominant de cercetare; se consideră numai proiectele / granturile relevante pentru profilul postului scos la concurs;
- (5) Autocitarile sunt excluse (se consideră autocitare existența unui autor/coautor comun între lucrarea citată și lucrarea care citează).

2. Formula de calcul a indicatorului de merit (A)

$$A = \sum_{i=1}^3 A_i = \sum_{p=1}^3 k_{1p} + \sum_{p=1}^5 k_{2p} + \sum_{p=1}^7 k_{3p}$$

Unde: k_{ip} – indice specific domeniului ($i=1,2,3$) și tipului (p) de activitate (conform tabelului 1)

Nota: Indicatorul se referă la întreaga activitate a candidatului.

3. Condiții minimale (A_i , $i=1, 2$ și 3)

Nr. crt.	Domeniul de activitate	Categoria	
		Conferențiar	Profesor
1.	Activitatea didactică și profesională (A1)	Min. 60 pct.	Min. 120 puncte
	realizat	152,91 pct	
2.	Activitatea de cercetare (A2)	Min 180pct.	Min. 360 puncte
	realizat	597,08 pct.	
3.	Recunoașterea și impactul activității (A3)	Min 60 pct.	Min. 120 puncte
	realizat	782,97 pct	
Total		300	600
	realizat	1532,96 pct.	