

UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI

FACULTATEA DE CONSTRUCȚII ȘI INSTALAȚII

DEPARTAMENTUL DE INGINERIA INSTALAȚIILOR

Concurs pentru ocuparea postului de Conferențiar universitar, poz. 9

Disciplinele postului: **Elemente de electrotehnică avansată pentru studiul fenomenelor din instalații**
Siguranța în funcționarea și gestiunea sistemelor de instalații
Mașini electrice

FIȘĂ DE VERIFICARE

a îndeplinirii standardelor minime naționale de prezentare la concurs pentru postul de conferențiar universitar

publicat în Monitorul Oficial al României, **Partea a III-a**, nr. 1251 din data de 24.11.2022

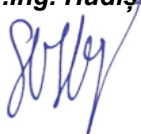
Candidat: **Hudișteanu Valeriu-Sebastian** / Data nașterii: **05.06.1987**. Funcția actuală: **șef lucrări dr. ing.**
Data numirii în funcția actuală: **11.02.2021** (**Decizia Rectorului TUIASI nr. 254/11.02.2021**), Instituția:
Universitatea Tehnică "Gheorghe Asachi" din Iași, Facultatea de Construcții și Instalații, Departamentul de Ingineria Instalațiilor.

Se preia tabelul și definițiile corespunzătoare domeniului științific aferent, conform Anexei TUIASI.POB.08-A1.3.

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

Data: 09.01.2023

Candidat: Șef lucrări dr.ing. Hudișteanu Valeriu-Sebastian



Anexa nr. 6 COMISIA DE INGINERIE CIVILĂ ȘI MANAGEMENT
STANDARDE MINIMALE NECESARE DIN ÎNVĂȚĂMÂNTUL SUPERIOR ȘI A GRADELOR
PROFESIONALE DE CERCETARE - DEZVOLTARE

Tabelul 1. Structura activității candidatului

Nr. crt.	Tipul activităților	Categorii și restricții	Număr de realizări	Punctaj	Îndeplinirea restricțiilor impuse (unde este cazul)
1	1.1. Cărți, cursuri universitare și capitole în cărți de specialitate	1.1.1. Cărți, cursuri universitare / capitole ca autor. Profesor: minim 2 Conferențiar: minim 1	1 internaționale	2.80	-
			6 naționale	100.83	Da
		1.1.2 Cărți, cursuri universitare / capitole de cărți ca editor / coordonator	... internaționale	-	-
			... naționale	-	-
	1.2. Coordonare de programe de studii, organizare și coordonare programe de formare continuă și proiecte educaționale (POS, Erasmus, Socrates, Leonardo, ș.a.)	Punctaj unic, egal cu unitatea, pentru fiecare activitate (<u>maxim</u> 10 activități pentru Profesor; <u>maxim</u> 5 activități pentru Conferențiar)	-
2	2.1. Articole în reviste cotate ISI Thomson Reuters și în volume indexate ISI Proceedings	Minim 8 articole pentru Profesor (minim 2 în reviste cu FI>1 și minim 2 în reviste cu FI>0,5) Minim 5 articole pentru Conferențiar (minim 2 în reviste cu FI>0,5)	nr. total articole: 17 nr. articole cu FI>1: 9 nr. articole cu FI=0,5 și 1: 1 nr. articole în Proceedings ISI: 7	166.87	Da
	2.2. Articole în reviste și volumele unor manifestări științifice indexate în baze de date internaționale (Scopus, Wiley, Springer, Science Direct, IEEE, Engineering Village, Proquest, EBSCO).	Minim 12 pentru Profesor Minim 8 pentru Conferențiar	nr. total articole: 23	152.29	Da
	2.3. Brevete de invenție înregistrate la	-	nr. total: ...	-	-




Nr. crt.	Tipul activităților	Categorii și restricții	Număr de realizări	Punctaj	Îndeplinirea restricțiilor impuse (unde este cazul)
	OSIM sau WIPO		nr. cotate ISI: ... nr. internaționale, necotate ISI: ... nr. naționale: ...		
	2.4. Granturi/proiecte câștigate prin competițiile ce finanțează activități de cercetare Director/responsabil proiect	2.4.1. Director / responsabil. Minim 2 pentru Profesor Minim 1 pentru Conferențiar	nr. internaționale:	-
		2.4.2. Membru în echipa de implementare a grantului	nr. naționale: 1	20	Da
			nr. internaționale:	-
			nr. naționale: 2	10	-
	2.5. Responsabil de proiecte de cercetare/consultanță	-	1	5	-
3	3.1. Citări în reviste ISI și BDI și în volumele conferințelor ISI și BDI (fără autocitări)	Minim 15 citări pentru Profesor Minim 8 citări pentru Conferențiar	3.1.1 nr. citări în reviste cotate ISI: 107	1211.74	Da
			3.1.2 nr. citări în volumele unor manifestări științifice indexate ISI: 23	13.75	
			3.1.3 nr. citări în reviste cotate BDI: 27	13.17	
			3.1.4 nr. citări în volumele unor manifestări științifice indexate BDI: 20	5.00	
	3.2. Prezentări invitate în plenul unor manifestări științifice naționale și internaționale și Profesor invitat pentru a susține module de curs/prelegeri (exclusiv ERASMUS)	Punctaj unic pentru fiecare activitate (maxim 10 activități pentru Profesor; maxim 5 activități pentru Conferențiar)	internaționale:	-
			naționale:	-
	3.3. Membru în colective de redacție sau comitete științifice al revistelor și manifestărilor științifice, organizator	3.3.1 – minim 2 colective de redacție și minim 8 recenzii	3 colective 8 recenzii	10	-

Nr. crt.	Tipul activităților	Categorii și restricții	Număr de realizări	Punctaj	Îndeplinirea restricțiilor impuse (unde este cazul)
	de manifestări științifice; Recenzor pentru reviste și manifestări științifice (punctajele sunt unice pentru fiecare categorie și se acordă doar dacă sunt îndeplinite cerințele minimale specificate în coloana alăturată. În cazul revistelor, comitetelor și manifestărilor științifice internaționale valorile minime specificate se împart la 2)	3.3.2 – minim 2 colective de redacție și minim 8 recenzii	4 colective 8 recenzii	6	-
		3.3.3 – minim 2 comitete științifice și minim 12 recenzii	5 colective 14 recenzii	4	-
	3.4. Experiența de management universitar sau de cercetare	3.4.1 Funcții de conducere (rector, prorector, decan, prodecan, director de departament, director școală doctorală, director general, director științific, șef secție, șef laborator)	... ani	...	-
		3.4.2 Membru în organisme de conducere (senat, consiliul facultății, consiliul științific)	... ani	...	-
	Punctaj total			1721.45	

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DETALIERE INDICATORI

Activitate didactică și profesională (A1)

1.1. Cărți, cursuri universitare și capitole în cărți de specialitate

1.1.1 Cărți, cursuri universitare / capitol ca autor

1.1.1.1 Internaționale

Nr. crt.	Rezultate (punctaje)	Titlul, autori, nr. pagini, Editura, ISBN)	Nr. pagini
0	2	3	4
1	$28/(2 * 5) = 2.8$	RELIABILITY AND SUSTAINABILITY OF WATER TRANSPORT SYSTEMS, Ancas, A. D., Turcanu, F. E., Verdes, M., Hudișteanu, V. S. , & Chereches, N. C. (2022). In R. Felseghi, N. Cobîrzan, & M. Raboaca (Ed.), Clean Technologies and Sustainable Development in Civil Engineering (pp. 100-127). IGI Global. https://doi.org/10.4018/978-1-7998-9810-8.ch005	28
	Punctaj total = 2.8		

1.1.1.2 Naționale

Nr. crt.	Rezultate (punctaje)	Titlul, autori, nr. pagini, Editura, ISBN)	Nr. pagini
0	2	3	4
1	$127/(5 * 2) = 12,7$	APARATE ELECTRICE pentru instalații electrice de joasă tensiune - ÎNDRUMAR DE LABORATOR, N. C. Cherecheș, S. Hudișteanu , 127 pag, Tipografia "Gheorghe Asachi" din Iași, 2015.	127
2	$159/(5 * 3) = 10,6$	REȚELE ELECTRICE de joasă tensiune - ÎNDRUMAR DE LABORATOR, N. C. Cherecheș, S. Hudișteanu , J. Ignat, 159 pag, Tipografia "Gheorghe Asachi" din Iași, 2015.	159
3	$312/(5 * 3) = 20,8$	INSTALAȚII ELECTRICE DE JOASĂ TENSIUNE PENTRU ILUMINAT, N. C. Cherecheș, S. Hudișteanu , J. Ignat, 312 pag, Editura Politehniun, Iași, 2019, ISBN 978-973-621-487-5	312
4	$327/(5 * 3) = 21,8$	ÎMBUNĂTĂȚIREA EFICIENȚEI PANOURILOR FOTOVOLTAICE INTEGRATE ÎN CLĂDIRI, S. Hudișteanu , T. D. Mateescu, N. C. Cherecheș, 327 pag, Editura Politehniun, Iași, 2020, ISBN 978-973-621-488-2	327
5	$292/(5 * 2) = 29,2$	MAȘINI ȘI APARATE ELECTRICE DE JOASĂ TENSIUNE - îndrumar de laborator, S. Hudișteanu , N. C. Cherecheș, 292 pag, Editura Politehniun, Iași, 2022, ISBN 978-973-621-507-0	292
6	$232/(5 * 2) = 23,2$	MAȘINI ȘI APARATE ELECTRICE DE JOASĂ TENSIUNE, S. Hudișteanu , N. C. Cherecheș, 232 pag, Editura Politehniun, Iași, 2022, ISBN 978-973-621-514-8	232
	Punctaj total = 100.83		

Activitate de cercetare (A2)

2.1. Articole în reviste cotate* ISI Thomson Reuters și în volume indexate ISI Proceedings

* Factorul de impact (FI) al revistei este cel din anul publicării articolului

Nr. crt.	Rezultate (punctaje)	Autori, titlul lucrării, revistă, volum, pagini, an publicare	FI
0	1	2	3
1	$(25+20 \cdot 2.838) / 7 = 11.68$	Hudișteanu, S.V. ; Țurcanu, F.E.; Cherecheș, N.-C.; Popovici, C.-G.; Verdeș, M.; Ancaș, D.-A.; Hudișteanu, I. Effect of Wind Direction and Velocity on PV Panels Cooling with Perforated Heat Sinks, Appl. Sci. 2022, 12, 9665. https://doi.org/10.3390/app12199665	2.838
2	$(25+20 \cdot 2.838) / 9 = 9.084$	Baouche, F.Z.; Abderezzak, B.; Ladmi, A.; Arbaoui, K.; Suciu, G.; Mihaltan, T.C.; Raboaca, M.S.; Hudișteanu, S.V. ; Țurcanu, F.E. Design and Simulation of a Solar Tracking System for PV, Appl. Sci. 2022, 12, 9682. https://doi.org/10.3390/app12199682	2.838
3	$(25+20 \cdot 3.748) / 7 = 14.28$	Ancaș, A.D.; Țurcanu, F.-E.; Verdeș, M.; Hudișteanu, S.V. ; Cherecheș, N.-C.; Popovici, C.-G.; Profire, M. Comparative Numerical Studies on the Structural Behavior of Buried Pipes Subjected to Extreme Environmental Actions. Materials 2022, 15, 3385. https://doi.org/10.3390/ma15093385	3.748
4	$(25+20 \cdot 2.838) / 6 = 13.627$	El Fouas, C.; Cherecheș, N.C.; Hudișteanu, S.V. ; Hajji, B.; Țurcanu, E.F.; Cherecheș, M.L. Numerical and Parametric Analysis for Enhancing Performances of Water Photovoltaic/Thermal System. Appl. Sci. 2022, 12, 646. https://doi.org/10.3390/app12020646	2.838
5	$(25+20 \cdot 2.838) / 6 = 13.627$	Hudișteanu, S.V. ; Țurcanu, F.E.; Cherecheș, N.C.; Popovici, C.G.; Verdeș, M.; Hudișteanu, I. Enhancement of PV Panel Power Production by Passive Cooling Using Heat Sinks with Perforated Fins. Appl. Sci. 2021, 11, 11323. https://doi.org/10.3390/app112311323	2.838
6	$(25+20 \cdot 2.838) / 7 = 11.68$	Cherecheș, M.L.; Cherecheș, N.C.; Ciobanu, A.A.; Hudișteanu, S.V. ; Țurcanu, E.F.; Bradu, A.; Popovici, C.G. Experimental Study on Airflow and Temperature Predicting in a Double Skin Façade in Hot and Cold Seasons in Romania. Appl. Sci. 2021, 11, 12139. https://doi.org/10.3390/app112412139	2.838
7	$(25+20 \cdot 0.916) / 6 = 7.22$	Hudișteanu, S.V. ; Popovici, C.G.; Verdeș, M.; Ciocan, V.; Cherecheș, N.C.; Țurcanu, F.E. Experimental analysis of innovative heat exchanger with uniform heat flux used in heat pumps systems, Environmental Engineering & Management Journal (EEMJ). Dec2020, Vol. 19 Issue 12, p2231-2240. 10p. http://eemj.eu/index.php/EEMJ/article/view/4247	0.916
8	$(25+20 \cdot 2.702) / 5 = 15.808$	Țurcanu, F.-E.; Popovici, C.-G.; Verdeș, M.; Ciocan, V.; Hudișteanu, S.-V. Indoor Climate Modelling and Economic Analysis Regarding the Energetic Rehabilitation of a Church. Energies 2020, 13, 2815. https://doi.org/10.3390/en13112815	2.702
9	$(25+20 \cdot 2.849) / 10 = 8.198$	Anghel, L.; Popovici, C.-G.; Stătescu, C.; Sascău, R.; Verdeș, M.; Ciocan, V.; Șerban, I.-L.; Mărănducă, M.A.; Hudișteanu, S.-V.; Țurcanu, F.-E. Impact of HVAC-Systems on the Dispersion of Infectious Aerosols in a Cardiac Intensive Care Unit. Int. J. Environ. Res. Public Health 2020, 17, 6582. https://doi.org/10.3390/ijerph17186582	2.849
10	$(25+20 \cdot 1.334) / 4 = 12.92$	S. V. Hudișteanu , M. Pruteanu, T. D. Mateescu, M. Vasilache, Experimental investigation of the effect of temperature on the photovoltaic panels' parameters, Environmental Engineering and Management Journal, July 2017, Vol.16, No. 7, 1643-1648. http://eemj.eu/index.php/EEMJ/article/view/3333	1.334

11	25/4 = 6.25	N.-C. Chereches, M. Chereches, L. Miron, S. V. Hudisteanu , Numerical study of cooling solutions inside a power transformer, Sustainable Solutions for Energy and Environment, EENVIRO 2016, 26-28 October 2016, Bucharest, Romania, Energy Procedia, Volume 112, 2017, Pages 314-321, doi: 10.1016/j.egypro.2017.03.1103	-
12	25/4 = 6.25	S. V. Hudisteanu , C. G. Popovici, T. D. Mateescu, N.-C. Chereches, Efficiency analysis of BIPV systems for different locations in Romania, Sustainable Solutions for Energy and Environment, EENVIRO 2016, 26-28 October 2016, Bucharest, Romania, Energy Procedia, Volume 112, 2017, Pages 404-411. https://doi.org/10.1016/j.egypro.2017.03.1089	-
13	25/5 = 5	C. G. Popovici, V. V. Cirlan, T. D. Mateescu, N.-C. Chereches, S. V. Hudisteanu , Influence of various angles of the venetian blind on the efficiency of a double skin facade, 2015 EENVIRO Conference on „Sustainable Solutions for Energy and Environment”, Energy Procedia, Volume 85, January 2016, Pages 416–424, EENVIRO-YRC 2015 – Bucharest. https://doi.org/10.1016/j.egypro.2015.12.222	-
14	25/4 = 6.25	C. G. Popovici, S. V. Hudisteanu , T. D. Mateescu, N.-C. Chereches, Efficiency improvement of photovoltaic panels by using air cooled heat sinks, 2015 EENVIRO Conference on „Sustainable Solutions for Energy and Environment”, Energy Procedia, Volume 85, January 2016, Pages 425–432, EENVIRO-YRC 2015 – Bucharest. https://doi.org/10.1016/j.egypro.2015.12.223	-
15	25/4 = 6.25	C. Chereches, M. Chereches, L. Miron, S. Hudisteanu , New Criterion Proposal for Transition from Natural to Forced Convection (Prescribed Wall Flux), 2015 EENVIRO Conference on „Sustainable Solutions for Energy and Environment”, Energy Procedia, Volume 85, January 2016, Pages 109–117, EENVIRO-YRC 2015 – Bucharest. https://doi.org/10.1016/j.egypro.2015.12.280	-
16	25/2 = 12.5	C.-G. Popovici, V. S. Hudisteanu , Numerical simulation of HVAC system functionality in a socio-cultural building, 9th International Conference Interdisciplinarity in Engineering, INTER-ENG 2015, 8-9 October 2015, Tirgu-Mures, Romania, Procedia Technology, Volume 22, 2016, Pages 535–542. https://doi.org/10.1016/j.protcy.2016.01.113	-
17	25/4 = 6.25	N. C. Chereches, C. G. Popovici, V Cirlan, S. V. Hudisteanu , Solar protection influence on dynamic insulation efficiency of double skin facades, Sustainable Solutions for Energy and Environment (EENVIRO), Cluj Napoca, ROMANIA, 2018, E3S Web of Conferences, Volume 85, 2019. https://doi.org/10.1051/e3sconf/20198504003	-
	Punctaj total: 166.87		

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

* Articolele indexate în ISI WOS care nu sunt luate în considerare la criteriul A2.1 pot fi echivalate cu articole BDI în forma 1 lucrare indexată ISI WOS este echivalentă cu o lucrare indexată în baze de date internaționale

** Bazele de date sunt: Scopus, Wiley, Springer, Science Direct, IEE, Engineering Village, Proquest, EBSCO

Nr. crt.	Rezultate (punctaje)	Autori, titlul lucrării, revistă, volum, pagini, an publicare
1	20/4 = 5	S. V. Hudisteanu , T. D. Mateescu, C. G. Popovici, N.-C. Chereches, The influence of the building integrated photovoltaic panels position on the conversion efficiency, BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iași, Vol. 62 (66), Nr. 2, 2016, Secția CONSTRUCȚII. ARHITECTURĂ, pag. 93-103 http://www.bipcons.ce.tuiasi.ro/Content/ArticleInformation.php?ArticleID=563
2	20/3 = 6.667	S. V. Hudisteanu , T. D. Mateescu, C. G. Popovici, Five parameter model of photovoltaic panel implemented in Matlab/Simulink, BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iași Tomul LXI (LXV), Fasc. 3, 2015, Secția CONSTRUCȚII. ARHITECTURĂ, pag. 93-102 http://www.bipcons.ce.tuiasi.ro/Content/ArticleInformation.php?ArticleID=524
3	20/2 = 10	C. G. Popovici, S. V. Hudisteanu , Comparative analysis of HVAC system functionality in “Vasile Alecsandri” National Theatre of Jassy, BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iași Tomul LXI (LXV), Fasc. 2, 2015, Secția CONSTRUCȚII. ARHITECTURĂ, pag. 43-51 http://www.bipcons.ce.tuiasi.ro/Content/ArticleInformation.php?ArticleID=510
4	20/4 = 5	S. Hudisteanu , T. Mateescu, N.-C. Chereches, C.-G. Popovici, Numerical study of air cooling photovoltaic panels using heat sinks, Revista Romana de Inginerie Civila, Volumul 6 (2015), Nr 1, p. 11-20. http://www.rric.ro/revista.php?id=13
5	20/3 = 6.667	Monica Chereches, Nelu-Cristian Chereches, Sebastian Hudișteanu , The influence of different flow velocities on the heat transfer inside a ventilated façade, Romanian Journal of Civil Engineering, Volumul 5 (2014), Nr. 1, pag 19-26 https://search.proquest.com/openview/c03bb66b605e5202f4dd9ec239a468441?pq-origsite=gscholar&cbl=2029207
6	20/2 = 10	C.-G. Popovici, S. Hudisteanu , Numerical study of the efficiency of flat plate solar collectors in different external conditions, Applied Mechanics and Materials Vol. 659 (2014) pp 435-439, (2014) Trans Tech Publications, Switzerland. https://doi.org/10.4028/www.scientific.net/AMM.659.435
7	20/5 = 4	S. Hudișteanu , C.-F. Poenari, B.-I. Balint, M. Cherecheș, N.-C. Cherecheș, Energy saving analysis inside a double skin facade, Mathematical Modelling in Civil Engineering Journal, Special Issue, pg. 78-83, 2013 http://mmce.rs.utcb.ro/images/doc/2013/Scientific_Journal_-_Special_issue_-_november_2013.pdf
8	20/3 = 6.667	S. Hudișteanu , N.-C. Cherecheș, M. Cherecheș, Numerical modeling of solar radiation inside ventilated double-skin facade, Mathematical Modelling in Civil Engineering Journal, Nr.4, Vol. 8, 2012, pg. 96-101 http://mmce.rs.utcb.ro/images/doc/2012/modelling_nr4_2012.pdf
9	20/3 = 6.667	M. Cherecheș, N. - C. Cherecheș, S. Hudișteanu , Indicateurs énergétiques spécifiques aux façades ventilées et vitrées, Construcții Journal, Vol. 13, Issue 2, 2012, pg. 24-30 http://constructii.incd.ro/Archive/2012-2/Constructii_2012_Vol.13_No.2_ID2012130204.pdf
10	20/5 = 4	S. V. Hudisteanu , T. D. Mateescu, V. Ciocan, C. E. Teleman, G. Băetu, Wind tunnel investigation of natural ventilation inside double skin façades, 17th International Multidisciplinary Scientific GeoConference SGEM 2017, www.sgem.org, SGEM2017 Conference Proceedings, ISBN 978-619-7408-07-2 / ISSN 1314-2704, 29 June - 5 July, 2017, Vol. 17, Issue 42, 691-698 pp, DOI: 10.5593/sgem2017/42/S17.086 https://www.sgem.org/index.php/elibrary?view=publication&task=show&id=3776
11	20/3 = 6.667	V.S. Hudisteanu , T.D. Mateescu, C.G. Popovici, Comparative study of water film heat exchangers for cooling photovoltaic panels, Proceedings of the international scientific conference cibv 2015, 30th-31th of october, transilvania



Nr. crt.	Rezultate (punctaje)	Autori, titlul lucrării, revistă, volum, pagini, an publicare
		university publishing house, Braşov, pag. 385-393 http://aspekt.unitbv.ro/jspui/bitstream/123456789/1994/1/HUDISTEANU_CIBv2_015.pdf
12	20/3 = 6.667	Hudişteanu, S.V. , Popovici, C.G., Cherecheş, N.-C., Wind tunnel study of natural ventilation of building integrated photovoltaics double skin façade, E3S Web of Conferences, Vol. 32, 01020, 2018 https://doi.org/10.1051/e3sconf/20183201020
13	20/3 = 6.667	Popovici, C.G., Hudişteanu, S.V. , Cherecheş, N.-C., The necessity of HVAC system for the registered architectural cultural heritage building, E3S Web of Conferences, Vol. 32, 01008, 2018, https://doi.org/10.1051/e3sconf/20183201008
14	20/2 = 10	Hudisteanu, S.V. , Popovici, C.G., Experimental investigation of the wind direction influence on the cooling of photovoltaic panels integrated in double skin facades, E3S Web of Conferences 111, 03045, 2019 https://doi.org/10.1051/e3sconf/201911103045
15	20/2 = 10	Hudisteanu, S.V. , Popovici, C.G., Numerical analysis of the efficiency and energy production of the building integrated photovoltaics for various configurations, E3S Web of Conferences 111, 03044, 2019 https://doi.org/10.1051/e3sconf/201911103044
16	20/7 = 2.857	V Ciocan, EF Ţurcanu, M Verdeş, RS Luciu, MC Bălan, SV Hudişteanu, A Burlacu, Thermal comfort assessment for different heating system using CFD-modelling inside of an orthodox church, IOP Conference Series: Materials Science and Engineering 586 (1), 012042, 2019/8 https://doi.org/10.1088/1757-899X/586/1/012042
17	20/2 = 10	CG Popovici, SV Hudişteanu , Numerical analysis of heat exchanger with uniform heat flux used in heat pumps systems, IOP Conference Series: Materials Science and Engineering 586 (1), 012034, 2019/8 https://doi.org/10.1088/1757-899X/586/1/012034
18	20/7 = 2.857	V Ciocan, EF Ţurcanu, M Verdeş, RS Luciu, MC Bălan, SV Hudişteanu, A Burlacu, Hygro-thermal monitoring inside Gheorghe Asachi library and their effects on heritage conservation, IOP Conference Series: Materials Science and Engineering 586 (1), 012043, 2019/8 https://doi.org/10.1088/1757-899X/586/1/012043
19	20/7 = 2.857	EF Ţurcanu, V Ciocan, M Verdeş, RS Luciu, MC Bălan, SV Hudişteanu, A Burlacu, IR thermography applied in church heritage conservation, IOP Conference Series: Materials Science and Engineering 586 (1), 012041, 2019/8 https://doi.org/10.1088/1757-899X/586/1/012041
20	20/6 = 3.333	SV Hudişteanu , V Ciocan, M Verdeş, NC Cherecheş, MC Bălan, EF Ţurcanu, Comparative analysis of heating systems used in Orthodox churches, IOP Conference Series: Materials Science and Engineering 586 (1), 012035, 2019/8 https://doi.org/10.1088/1757-899X/586/1/012035
21	20/7 = 2.857	M Verdeş, V Ciocan, EF Ţurcanu, RS Luciu, MC Bălan, SV Hudişteanu, A Burlacu, Microclimate analysis in Gheorghe Asachi auditorium: showcase for the indoor climate performance, IOP Conference Series: Materials Science and Engineering 586 (1), 012036, 2019/8 https://doi.org/10.1088/1757-899X/586/1/012036
22	20/1 = 20	S. V. Hudisteanu , Cooling of photovoltaic panels by using water film heat exchanger, 2014, Conference Proceedings of the Second International Conference for PhD Students in Civil Engineering and Architecture, pp. 445-452, Technical University of Cluj-Napoca http://sens-group.ro/ce2014/accepted-papers/
23	20/7 = 2.857	V. S. Hudisteanu , A. I. Baran, M. Balan, N. C. Chereches, T. Mateescu, M. Verdes, V. Ciocan, Improvement of the indoor climate conditions inside orthodox churches, International Scientific Conference CIBV 2014, 7-8 November 2014, Braşov.

Nr. crt.	Rezultate (punctaje)	Autori, titlul lucrării, revistă, volum, pagini, an publicare
	Punctaj total: 152.29	

2.4 Granturi/Proiecte* câștigate prin competițiile ce finanțează activități de cercetare

* Prin grant/proiect de cercetare câștigat prin competiție se înțelege că trebuie să fie atrase simultan fonduri pentru: cheltuieli de personal, cheltuieli de capital, cheltuieli de logistică (obiecte de mică valoare și consumabile), deplasări și regia universității

2.4.1 Director (pentru instituția coordonatoare) / responsabil (pentru instituția parteneră)

2.4.1.2 Naționale

Nr. crt.	Rezultate (punctaje)	Titlul proiectului
1	10*2=20	Contract de finanțare pentru execuție proiecte NR. 443PED/2020 (PN-III-P2-2.1-PED-2019-1294), îmbunătățirea eficienței panourilor fotovoltaice prin răcire pasivă și activă – Cool-PV, http://www.cool-pv.ci.tuiasi.ro , 600.000,00 RON, DIRECTOR
Punctaj total: 20		

2.4.2 Membru în echipa de implementare a grantului

2.4.2.2 Naționale

Nr. crt.	Rezultate (punctaje)	Titlul proiectului
1	5*1 = 5	Schimbător de căldură cu flux termic uniform integrat ca sursă rece în sistemele de încălzire-climatizare echipate cu pompe de căldură [HEUTF], Contract de finanțare pentru execuție proiecte NR 257CI/2018, Cod proiect: PN-III-P2-2.1-CI-2018-1491, Responsabil Conf.dr.ing. Catalin George Popovici, Beneficiar: Eco Term SRL, Furnizor servicii: Universitatea Tehnică "Gheorghe Asachi" Din Iași – MEMBRU , 2018.
2	5*1 = 5	Acumulator termic sezonier pentru valorificarea energiei neconvenționale, destinat sistemelor de instalații echipate cu pompe de căldură [SHSRE], Contract de finanțare pentru execuție proiecte NR 258CI/2018, Cod proiect: PN-III-P2-2.1-CI-2018-1494, Responsabil Conf.dr.ing. Catalin George Popovici, Beneficiar: Mag Construct Company SRL, Furnizor servicii: Universitatea Tehnică "Gheorghe Asachi" din Iași – MEMBRU , 2018.
Punctaj total: 10		

2.5. Responsabil de proiecte de cercetare/consultanță (fiecare proiect considerat la calculul punctajului trebuie să fie în valoare de minim 50000 lei pentru instituția la care responsabilul era/este titular)

Nr. crt.	Rezultate (punctaje)	Titlul proiectului
1	5	Proiectului privind Învățământul Secundar (ROSE), Schema de Granturi pentru Universități, Learn-ing AG311/SGU/PV/III, 2020-2024, 914.617,00 RON, DIRECTOR
Punctaj total: 5		



Recunoastere și impactul activității (A3)

3.1 Citări în reviste ISI și BDI și în volumele conferințelor ISI și BDI (nu sunt considerate autocitățile)

Nr. crt.	Activități	nr citări	Punctaj
1	Efficiency improvement of photovoltaic panels by using air cooled heat sinks, Cătălin George Popovici, Sebastian Valeriu Hudișteanu , Theodor Dorin Mateescu, Nelu-Cristian Cherecheș, Energy Procedia, Volume 85, January 2016, Pages 425-432	132	955.15
	3.1.1 Citat în articole cotate ISI:		
			...
	An Enhanced P&O MPPT Algorithm for PV Systems with Fast Dynamic and Steady-State Response under Real Irradiance and Temperature Conditions Open Access Harrison, A., Nfah, E.M., De Dieu Nguimfack Ndongmo, J., Alombah, N.H. 2022 International Journal of Photoenergy 2022,6009632	73	$10 \times 2.535 / 4 = 6.338$
	Performance of solar panels covered with colour glass sheets when subjected to different irradiance values of electromagnetic spectrum Devi, G; Magesh, T; (...); Surekha, R Nov 2022 OPTICAL MATERIALS 133		$10 \times 3.754 / 4 = 9.385$
	Finned PV Natural Cooling Using Water-Based TiO ₂ Nanofluid Al Aboushi, A; Abdelhafez, E and Hamdan, M Oct 2022 SUSTAINABILITY 14 (20)		$10 \times 3.889 / 4 = 9.723$
	Enhancing the performance of floating photovoltaic system by using thermosiphon cooling method: Numerical and experimental analyses Sutanto, B; Indartono, YS; (...); Iacovides, H Oct 2022 INTERNATIONAL JOURNAL OF THERMAL SCIENCES 180		$10 \times 4.779 / 4 = 11.948$
	Optimization of an air-cooled heat sink for cooling of a solar photovoltaic panel: A computational study Mankani, K., Nasarullah Chaudhry, H., Kaiser Calautit, J. 2022 Energy and Buildings 270,112274		$10 \times 7.201 / 4 = 18.003$
	Thermal management of solar photovoltaic module by using drilled cylindrical rods integrated with phase change materials Shoaib, M; Khan, SY; (...); Shehzad, N Aug 15 2022 JOURNAL OF ENERGY STORAGE 52		$10 \times 8.907 / 4 = 22.268$
	Management of potential challenges of PV technology proliferation Alami, AH; Rabaia, MKH; (...); Olabi, AG Jun 2022 SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS 51		$10 \times 7.632 / 4 = 19.08$
	A detailed review on the performance of photovoltaic/thermal system using various cooling methods Pathak, SK; Sharma, PO; (...); Meyer, JP Jun 2022 SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS 51		$10 \times 7.632 / 4 = 19.08$
	Review of Recent Efforts in Cooling Photovoltaic Panels (PVs) for Enhanced Performance and Better Impact on the Environment Hajjaj, SSH; Aqeel, AAKA; (...); Shah, AUM May 2022 NANOMATERIALS 12 (10)		$10 \times 5.719 / 4 = 14.298$
	Lightning Protection, Cost Analysis and Improved Efficiency of Solar Power Plant for Irrigation System Rahim, W; Ullah, I; (...); Alahmadi, AA May 2022 SUSTAINABILITY 14 (10)		$10 \times 3.889 / 4 = 9.723$

Passive PV module cooling under free convection through vortex generators Zhou, ZB; Tkachenko, S; (...); Green, M May 2022 RENEWABLE ENERGY 190 , pp.319-329	$10^{8.634/4} = 21.585$
A comparative study on thermal performance of a 3-D model based solar photovoltaic panel through finite element analysis Laha, SK; Sadhu, PK; (...); Naskar, AK Mar 2022 AIN SHAMS ENGINEERING JOURNAL 13 (2)	$10^{4.79/4} = 11.975$
Innovative technique for achieving uniform temperatures across solar panels using heat pipes and liquid immersion cooling in the harsh climate in the Kingdom of Saudi Arabia Al-Amri, F; Maatallah, TS; (...); Kayed, TS Feb 2022 ALEXANDRIA ENGINEERING JOURNAL 61 (2) , pp.1413-1424	$10^{6.626/4} = 16.565$
Passive Cooling Configurations for Enhancing the Photovoltaic Efficiency in Hot Climatic Conditions Haque, MA; Miah, MAK; (...); Rahman, MH Feb 1 2022 JOURNAL OF SOLAR ENERGY ENGINEERING-TRANSACTIONS OF THE ASME 144 (1)	$10^{2.376/4} = 5.94$
Dust Deposition's Effect on Solar Photovoltaic Module Performance: An Experimental Study in India's Tropical Region Lakshmi, KRC and Ramadas, G 2022 Jan 2022 (Early Access) JOURNAL OF RENEWABLE MATERIALS 10 (8) , pp.2133-2153	$10^{2.115/4} = 5.288$
Thermal Performance of Finned Heat Sinks Embedded with Form-Stable Myristic Acid Phase Change Material in Photovoltaic Cooling for Green Energy Storage Munusamy, Yamuna; Lin Onn, John Wong; Alquraish, Mohammed; Kchaou, Mohamed; Sethupathi, Sumathi, Energies	$10^{3.004/4} = 7.51$
Analysis of Thermomechanical Stresses of a Photovoltaic Panel Using a Passive System of Cooling Perez Escobar, Brayan L.; Perez Hernandez, German; Ocampo Ramirez, Arturo; Rojas Blanco, Lizeth; Diaz Flores, Laura L.; et al., Applied Sciences-basel	$10^{2.679/4} = 6.698$
Enhanced heat dissipation of truncated multi-level fin heat sink (MLFHS) in case of natural convection for photovoltaic cooling Ahmad, E. Z.; Fazlizan, A.; Jarimi, H.; Sopian, K.; Ibrahim, A. Case Studies In Thermal Engineering	$10^{4.724/4} = 11.81$
Designing solar farms for synergistic commercial and conservation outcomes Nordberg, EJ; Caley, MJ and Schwarzkopf, L Nov 1 2021 SOLAR ENERGY 228 , pp.586-593	$10^{5.742/4} = 14.355$
Towards self-powered technique in underwater robots via a high-efficiency electromagnetic transducer with circularly abrupt magnetic flux density change Li, Zhongjie; Jiang, Xiaomeng; Yin, Peilun; Tang, Lihua; Wu, Hao; et al. Applied Energy	$10^{9.746/4} = 24.365$
Performance evaluation of PV panel surfaces exposed to hydraulic cooling-A review Bhakre, SS; Sawarkar, PD and Kalamkar, VR Aug 2021 SOLAR ENERGY 224 , pp.1193-1209	$10^{5.742/4} = 14.355$
Integrating Novel Microchannel-Based Solar Collectors with a Water-to-Water Heat Pump for Cold-Climate Domestic Hot Water Supply, Including Related Solar Systems Comparisons Kashan, ME; Fung, AS and Swift, J Jul 2021 Energies	$10^{3.004/4} = 7.51$
Improvement of Stand-Alone Solar PV Systems in the Maputo Region by Adapting Necessary Parameters Roque, PMJ (Roque, Paxis Marques Joao), Chowdhury, SPD (Chowdhury, Shyama P. D.), Huan, ZJ (Huan, Zhongjie), ENERGIES, Volume 14, Issue 14, Article Number 4357, DOI10.3390/en1444357, JUL 2021	$10^{3.004/4} = 7.51$

<p>State-of-the-Art Review on the Energy Performance of Semi-Transparent Building Integrated Photovoltaic across a Range of Different Climatic and Environmental Conditions Khalifeeh, R, Alrashidi, H , Sellami, N, Mallick, T, Issa, W, ENERGIES, Volume 14, Issue 12 Article Number 3412 DOI10.3390/en14123412, JUN 2021</p>	$10^{*3.004/4} = 7.51$
<p>Development of thermo-electrical model of photovoltaic panel under hot-spot conditions with experimental validation, Cabo, FG (Cabo, Filip Grubisic), Marinic-Kragic, I (Marinic-Kragic, Ivo), Garma, T (Garma, Tonko), Nizetic, S (Nizetic, Sandro), ENERGY, Volume 230, Article Number 120785, DOI10.1016/j.energy.2021.120785 Published SEP 1 2021</p>	$10^{*7.147/4} = 17.868$
<p>Thermal management of grid-tied PV system: A novel active and passive cooling design-based approach By: Hammad, Waleed; Sweidan, Tha'er O.; Abuashour, Mohammed I.; et al. IET RENEWABLE POWER GENERATION early access iconEarly Access: MAY 2021</p>	$10^{*3.894/4} = 9.735$
<p>Solar Hybrid System Component Study in Low Concentrated Sunlight Cotfas, P.A., Cotfas, D.T. 2021 International Journal of Photoenergy, 2021, art. no. 6677473.</p>	$10^{*2.535/4} = 6.338$
<p>Enhanced photovoltaic panel energy by minichannel cooler and natural geothermal system Jafari, Rahim; Erkilic, Kaan T.; Ugurer, Doruk; Kanbur, Yunus; Yildiz, Murat o.; et al. International Journal Of Energy Research</p>	$10^{*3.741/4} = 9.353$
<p>Analytical Modeling and Optimization of a Heat Sink Design for Passive Cooling of Solar PV Panel By: AlAmri, Fahad; AlZohbi, Gaydaa; AlZahrani, Mohammed; et al. SUSTAINABILITY Volume: 13 Issue: 6 Article Number: 3490 Published: MAR 2021</p>	$10^{*2.576/4} = 6.44$
<p>Comparison and evaluation of solar photovoltaic thermal system with hybrid collector: An experimental study By: Kazem, Hussein A.; Chaichan, Miqdam T.; Al-Waeli, Ali H. A.; et al. THERMAL SCIENCE AND ENGINEERING PROGRESS Volume: 22 Article Number: 100845 Published: MAY 1 2021</p>	$10^{*4.56/4} = 11.4$
<p>Thermal performance of a discontinuous finned heatsink profile for PV passive cooling By: Hernandez-Perez, J. G.; Carrillo, J. G.; Bassam, A.; et al. APPLIED THERMAL ENGINEERING Volume: 184 Article Number: 116238 Published: FEB 5 2021</p>	$10^{*4.72/4} = 11.8$
<p>Thermal regulation of photovoltaic system for enhanced power production: A review By: Anand, Abhishek; Shukla, Amritanshu; Panchal, Hitesh; et al. JOURNAL OF ENERGY STORAGE Volume: 35 Article Number: 102236 Published: MAR 2021</p>	$10^{*3.762/4} = 9.405$
<p>Passive/active photovoltaic-thermal (PVT) system implementing infiltrated phase change material (PCM) in PS-CNT foam By: Ahmadi, Rouhollah; Monadinia, Farhad; Maleki, Mahdi SOLAR ENERGY MATERIALS AND SOLAR CELLS Volume: 222 Article Number: 110942 Published: APR 2021</p>	$10^{*6.98/4} = 17.45$
<p>Active cooling system for efficiency improvement of PV panel and utilization of waste-recovered heat for hygienic drying of onion flakes Deokar, Vinayak H.; Bindu, Rupa S.; Potdar, S. S. Journal Of Materials Science-materials In Electronics</p>	$10^{*2.22/4} = 5.55$

Performance enhancement of grid-tied PV system through proposed design cooling techniques: An experimental study and comparative analysis Gomaa, MR; Hammad, W; (...); Rezk, H Nov 15 2020 SOLAR ENERGY 211 , pp.1110-1127	$10^{*7.188/4} = 17.97$
Experimental identification of effects of using dual airflow path on the performance of roof-type BAPV system By: Kong, Minsuk; Joo, Hongjin; Kwak, Heeyoul ENERGY AND BUILDINGS Volume: 226 Article Number: 110403 Published: NOV 1 2020	$10^{*4.867/4} = 12.168$
Investigation into the effects of the earth's magnetic field on the conversion of solar cells Ndeto, Martin Paul; Wekesa, David Wafula; Kinyua, Robert; Njoka, Francis Renewable Energy	$10^{*6.274/4} = 15.685$
A new performance assessment methodology of bifacial photovoltaic solar panels for offshore applications By: Hasan, Ahmed; Dincer, Ibrahim ENERGY CONVERSION AND MANAGEMENT Volume: 220 Article Number: 112972 Published: SEP 15 2020	$10^{*8.208/4} = 20.52$
Analysis and Simulation of PV Solar Panel with Face Down Finned Heat Sink Al-Rabghi, Omar M. ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING Published 2020	$10^{*1.7811/4} = 4.453$
Enhancing performance of photovoltaic panel by cold plate design with guided channels Chin, Cheng Siong; Gao, Zuchang; Han, Ming; Zhang, Caizhi Iet Renewable Power Generation	$10^{*3.605/4} = 9.013$
Experimental performance analysis of two different passive cooling techniques for solar photovoltaic installations Amber, K.P., Akram, W., Bashir, M.A., Khan, M.S., Kousar, A. 2020 Journal of Thermal Analysis and Calorimetry	$10^{*2.471/4} = 6.178$
Improvement of Extracted Power of Pole Mounted Solar Panels by Effective Cooling Using Aluminum Heat Sink under Hot Weather and Variable Wind Speed Conditions Youssef Hassan, Mohamed Orabi, Abdulaziz Alshreef, Omar M. Al-Rabghi, Badr A. Habeebullah et al. Energies 2020, 13, doi: 10.3390/en13123159	$10^{*2.7/4} = 6.75$
Photovoltaic panel cooling by atmospheric water sorption-evaporation cycle Li, RY; Shi, YS; (...); Wang, P Aug 2020 May 2020 (Early Access) NATURE SUSTAINABILITY 3 (8) , pp.636-643	$10^{*27.157/4} = 67.893$
Techno-economic and environmental evaluation of passive cooled photovoltaic systems in Mediterranean climate conditions By: Cabo, Filip Grubisic; Nizetic, Sandro; Giam, Effrosyni; et al. APPLIED THERMAL ENGINEERING Volume: 169 Article Number: 114947 Published: MAR 25 2020	$10^{*4.026/4} = 10.065$
Experimental analysis on passive cooling of flat photovoltaic panel with heat sink and wick structure By: Parkunam, N.; Pandiyan, Lakshmanan; Navaneethakrishnan, G.; et al. ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS Volume: 42 Issue: 6 Pages: 653-663 Published: MAR 18 2020	$10^{*0.894/4} = 2.235$
A new passive PV heatsink design to reduce efficiency losses: A computational and experimental evaluation By: Hernandez-Perez, J. G.; Carrillo, J. G.; Bassam, A.; et al. RENEWABLE ENERGY Volume: 147 Pages: 1209-1220 Part: 1 Published: MAR 2020	$10^{*5.439/4} = 13.598$



Analysis of novel passive cooling strategies for free-standing silicon photovoltaic panels By: Nizetic, Sandro; Marinic-Kragic, Ivo; Grubisic-Cabo, Filip; et al. JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY Early Access: FEB 2020	$10^{*2.471/4} = 6.178$
Numerical and Experimental Investigation of Air Cooling for Photovoltaic Panels Using Aluminum Heat Sinks By: Arifin, Zainal; Tjahjana, Dominicus Danardono Dwi Prija; Hadi, Syamsul; et al. INTERNATIONAL JOURNAL OF PHOTOENERGY Volume: 2020 Article Number: 1574274 Published: JAN 10 2020	$10^{*2.026/4} = 5.065$
Impacts of albedo and atmospheric conditions on the efficiency of solar energy: a case study in temperate climate of Choman, Iraq By: Aziz, Ali Saleh; Tajuddin, Mohammad Faridun Naim; Adzman, Mohd Rafi; et al. ENVIRONMENT DEVELOPMENT AND SUSTAINABILITY Early Access: JAN 2020	$10^{*1.676/4} = 4.19$
Thermal Modeling and Performance Analysis of a Hybrid Photovoltaic/Thermal System Under Combined Surface Water Cooling in Winter Season: An Experimental Approach By: Sainthiya, Himanshu; Beniwal, Narendra Singh JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME Volume: 14 Issue: 1 Article Number: 012102 Published: JAN 2020	$10^{*2.759/4} = 6.898$
Thermal regulation of photovoltaic panel installed in Upper Egyptian conditions in Qena Shmroukh, AN Dec 2019 THERMAL SCIENCE AND ENGINEERING PROGRESS 14	$10^{*4.56/4} = 11.4$
Experimental study conducted for the identification of best heat absorption and dissipation methodology in solar photovoltaic panel By: Rajvikram, M.; Sivasankar, G. SOLAR ENERGY Volume: 193 Pages: 283-292 Published: NOV 15 2019	$10^{*4.674/4} = 11.685$
Enhancement of photovoltaic system performance via passive cooling: Theory versus experiment By: Amr, Ayman Abdel-raheim; Hassan, A. A. M.; Abdel-Salam, Mazen; et al. RENEWABLE ENERGY Volume: 140 Pages: 88-103 Published: SEP 2019	$10^{*5.439/4} = 13.598$
Thermal management of conventional photovoltaic module using phase change materials-An experimental investigation By: Waqas, Adeel; Ji, Jie; Bahadar, Ali; et al. ENERGY EXPLORATION & EXPLOITATION Volume: 37 Issue: 5 Special Issue: SI Pages: 1516-1540 Published: SEP 2019	$10^{*1.946/4} = 4.865$
Experimental investigation on the abasement of operating temperature in solar photovoltaic panel using PCM and aluminium Rajvikram, M; Leononraj, S; (...); Dheeraj, A Aug 2019 SOLAR ENERGY 188 , pp.327-338	$10^{*7.188/4} = 17.97$
Evaluation of some effective parameters on the energy efficiency of on-board photovoltaic array on an unmanned surface vehicle By: Makhsoos, Ashkan; Mousazadeh, Hossein; Mohtasebi, Seyed Saeid SHIPS AND OFFSHORE STRUCTURES Volume: 14 Issue: 5 Pages: 492-500 Published: JUL 4 2019	$10^{*1.763/4} = 4.408$
Comparative analysis of electrical performance parameters under combined water cooling technique of photovoltaic module: An experimental investigation By: Sainthiya, Himanshu; Beniwal, Narendra Singh ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 2019	$10^{*2.902/4} = 7.255$



Experimental analysis of a cooling system effect on photovoltaic panels' efficiency and its preheating water production Fakouriyan, S., Saboohi, Y., Fathi, A. 2019 Renewable Energy 134, pp. 1362-1368	$10^{*4.9/4} = 12.25$
Experimental study of the effect of using phase change materials on the performance of an air-cooled photovoltaic system By: Choubineh, Negin; Jannesari, Hamid; Kasaeian, Alibakhsh RENEWABLE & SUSTAINABLE ENERGY REVIEWS Volume: 101 Pages: 103-111 Published: MAR 2019	$10^{*9.184/4} = 22.96$
Quantifying the performance advantage of the novel passive air cooling system for PV array and system structure optimization By: Zou, Zheng; Yan, Wen; Gong, Hengxiang; et al. APPLIED THERMAL ENGINEERING Volume: 149 Pages: 899-908 Published: FEB 25 2019	$10^{*3.771/4} = 9.428$
Experimental investigation on using a novel phase change material (PCM) in micro structure photovoltaic cooling system By: Siahkamari, Leila; Rahimi, Masoud; Azimi, Neda; et al. INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER Volume: 100 Pages: 60-66 Published: JAN 2019	$10^{*4.463/4} = 11.158$
Numerical investigation of heat transfer from multi-bulges pins, Elsayed, A.O. 2018 Case Studies in Thermal Engineering, 12, pp. 636-64	$10^{*3.26/4} = 8.15$
Assessment of factors influencing the sustainable performance of photovoltaic water pumping systems By: Hadwan, Morshed; Alkholidi, Abdulsalam RENEWABLE & SUSTAINABLE ENERGY REVIEWS Volume: 92 Pages: 307-318 Published: SEP 2018	$10^{*9.184/4} = 22.96$
Reduction of PV Module Temperature Using Thermally Conductive Backsheets By: Oh, Jaewon; Rammohan, Balamurali; Pavgi, Ashwini; et al. IEEE JOURNAL OF PHOTOVOLTAICS Volume: 8 Issue: 5 Pages: 1160-1167 Published: SEP 2018	$10^{*3.075/4} = 7.688$
Aeroelastic-photovoltaic ribbons for integrated wind and solar energy harvesting By: Chatterjee, P.; Bryant, M. SMART MATERIALS AND STRUCTURES Volume: 27 Issue: 8 Article Number: 08LT01 Published: AUG 2018	$10^{*2.963/4} = 7.408$
New design of solar chimney (case study) Ahmed, OK and Hussein, AS Mar 2018 CASE STUDIES IN THERMAL ENGINEERING 11, pp.105-112	$10^{*6.268/4} = 15.67$
Flat plate hybrid photovoltaic-thermal (PV/T) system: A review on design and development By: Das, Dudul; Kalita, Pankaj; Roy, Omkar RENEWABLE & SUSTAINABLE ENERGY REVIEWS Volume: 84 Pages: 111-130 Published: MAR 2018	$10^{*9.184/4} = 22.96$
Analysis of flow separation effect in the case of the free-standing photovoltaic panel exposed to various operating conditions Author links open overlay panelIvo Marinić-Kragić Sandro Nižetić Filip Grubišić-Čabo Agis M.Papadopoulos, Journal of Cleaner Production Volume 174, 10 February 2018, Pages 53-64	$10^{*5.72/4} = 14.3$
A review of solar photovoltaic systems cooling technologies By: Siecker, J.; Kusakana, K.; Numbi, B. P. RENEWABLE & SUSTAINABLE ENERGY REVIEWS Volume: 79 Pages: 192-203 Published: NOV 2017	$10^{*8.05/4} = 20.125$

Cooled solar PV panels for output energy efficiency optimisation By: Peng, Zhijun; Herfatmanesh, Mohammad R.; Liu, Yiming ENERGY CONVERSION AND MANAGEMENT Volume: 150 Pages: 949-955 Published: OCT 15 2017		$10 \cdot 5.59 / 4 = 13.975$
Optimization of thermoelectric cooling technology for an active cooling of photovoltaic panel By: Kane, Aarti; Verma, Vishal; Singh, Bhim RENEWABLE & SUSTAINABLE ENERGY REVIEWS Volume: 75 Pages: 1295-1305 Published: AUG 2017		$10 \cdot 8.05 / 4 = 20.125$
Photovoltaic system assessment considering temperature and overcast conditions: Light load efficiency enhancement technique By: Correa-Betanzo, Carlos; Calleja, Hugo; Lizarraga, Alejandro SOLAR ENERGY Volume: 137 Pages: 148-157 Published: NOV 1 2016		$10 \cdot 4.02 / 4 = 10.05$
Performance enhancement of solar photovoltaic cells using effective cooling methods: A review By: Sargunanathan, S.; Elango, A.; Mohideen, S. Tharves RENEWABLE & SUSTAINABLE ENERGY REVIEWS Volume: 64 Pages: 382-393 Published: OCT 2016		$10 \cdot 8.05 / 4 = 20.125$
3.1.2 Citat în articole din volumele unor manifestări științifice indexate ISI:		
		...
The effect of collector design in increasing PVT performance: Current state and milestone Prasetyo, SD; Prabowo, AR and Arifin, Z 2nd International Conference on Chemical Engineering and Applied Sciences (ICChEAS) 2022 MATERIALS TODAY-PROCEEDINGS 63 , pp.S1-S9		$2.5 / 4 = 0.625$
Active and Passive Cooling Comparison of PV Panels Applied in Tropical City: Case Study Palembang, South Sumatra Dewi, Tresna; Taqwa, Ahmad; Sitompul, Carlos; Kusumanto, R. D.; Rusdianasari 7th International Conference On Sustainable Agriculture, Food And Energy		$2.5 / 4 = 0.625$
Photovoltaic Panel Efficiency Improvement by using Direct Water Passive Cooling with Clay Pot Owhaib, Wahib; Qanadah, Yousef; Al-Ajalin, Hamza; Tuffaha, Ahmad; Al-Kouz, Wael 2021 12th International Renewable Engineering Conference (Irec 2021)	19	$2.5 / 4 = 0.625$
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<p>A Review of Factors Affecting the Efficiency and Output of a PV System Applied in Tropical Climate By: Dewi, Tresna; Risma, Pola; Oktarina, Yurni Conference: International Conference on Science, Infrastructure Technology and Regional Development Location: Inst Teknologi Sumatera Campus, Lampung, INDONESIA Date: OCT 19-20, 2018 INTERNATIONAL CONFERENCE ON SCIENCE, INFRASTRUCTURE TECHNOLOGY AND REGIONAL DEVELOPMENT Book Series: IOP Conference Series-Earth and Environmental Science Volume: 258 Article Number: UNSP 012039 Published: 2019</p>		2.5/4 = 0.625
<p>Solar Panel Performance Improvement using Heatsink Fan as the Cooling Effect By: Fatoni, Epsilon K. A.; Taqwa, Ahmad; Kusumanto, Rd Conference: 2nd Forum in Research, Science, and Technology (FIRST) Location: Palembang, INDONESIA Date: OCT 30-31, 2018 Sponsor(s): State Polytechn Sriwijaya; Univ Cologne; Univ Sunderland; Int Islam Univ Malaysia; Politeknik Seberang Perai Malaysia 2ND FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY Book Series: Journal of Physics Conference Series Volume: 1167 Article Number: UNSP 012031 Published: 2019</p>		2.5/4 = 0.625
<p>An experimental study of the performance of the solar cell with heat sink cooling system By: Soliman, AMA (Soliman, Aly M. A.) [1,2] ; Hassan, H (Hassan, Hamdy) [1,3] ; Ookawara, S (Ookawara, Shinichi) [4] EMERGING AND RENEWABLE ENERGY: GENERATION AND AUTOMATION Book Series: Energy Procedia Volume: 162 Pages: 127-135 DOI: 10.1016/j.egypro.2019.04.014 Published: 2019 Document Type: Proceedings Paper</p>		2.5/4 = 0.625

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Nr. crt.	Activități	nr citări	Punctaj
3	Impact of HVAC-Systems on the Dispersion of Infectious Aerosols in a Cardiac Intensive Care Unit, Anghel, L.; Popovici, C.-G.; Stătescu, C.; Sascău, R.; Verdeș, M.; Ciocan, V.; Șerban, I.-L.; Mărânducă, M.A.; Hudișteanu, S.-V. ; Țurcanu, F.-E.. Int. J. Environ. Res. Public Health 2020, 17, 6582. https://doi.org/10.3390/ijerph17186582	13	72.18
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	Computation of temperature distributions in transformer covers due to high crossing currents in bushing regions By: Cahue-Diaz, D.; Maximov, S.; Escarela-Perez, R.; et al. INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS Volume: 113 Pages: 699-712 Published: DEC 2019		$10 \cdot 4.418 / 4 = 11.045$
	Heat Transfer Enhancement in Transformers by Optimizing Fin Designs and Using Nanofluids, Muhammad Farhan, Muhammad Saad Hameed, Hafiz Muhammad Suleman, Muhammad Anwar, Arabian Journal for Science and Engineering, pp 1–10, 07 February 2019		$10 \cdot 1.518 / 4 = 3.795$
	A 3D numerical model of an ONAN distribution transformer By: Cordoba, Paola A.; Dadi, Enzo; Silin, Nicolas APPLIED THERMAL ENGINEERING Volume: 148 Pages: 897-906 Published: FEB 5 2019		$10 \cdot 3.771 / 4 = 9.428$

Thermal management of a distribution transformer: An optimization study of the cooling system using CFD and response surface methodology By: Raeisian, Leyla; Niazmand, Hamid; Ebrahimnia-Bajestan, Ehsan; et al. INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS Volume: 104 Pages: 443-455 Published: JAN 2019		$10 \times 3.61/4 = 9.025$
3.1.2 Citat în articole din volumele unor manifestări științifice indexate ISI:		
Transient Thermal Condition of Natural Oil-cooled Disc-type Winding By: Khandan, S (Khandan, S.) [1]; Tenbohlen, S (Tenbohlen, S.) [1] 2019 IEEE 20TH INTERNATIONAL CONFERENCE ON DIELECTRIC LIQUIDS (ICDL) Book Group Author(s): IEEE Book Series: IEEE International Conference on Dielectric Liquids Published: 2019 Document Type: Proceedings Paper	2	$2.5/4 = 0.625$
PASSIVE COOLING OF ELECTRONIC COMPONENTS USING CLOSED ALUMINIUM HOUSING FILLED WITH LIQUID By: Galins, Janis; Laizans, Aigars; Galins, Ainars Conference: 18th International Scientific Conference on Engineering for Rural Development (ERD) Location: Jelgava, LATVIA Date: MAY 22-24, 2019 Sponsor(s): Latvia Univ Life Sci & Technologies, Fac Engn; Latvian Acad Agr & Forestry Sci 18TH INTERNATIONAL SCIENTIFIC CONFERENCE ENGINEERING FOR RURAL DEVELOPMENT Book Series: Engineering for Rural Development Pages: 1221-1226 Published: 2019	2	$2.5/4 = 0.625$
3.1.3 Citat în articole cotate BDI:		
Numerical modelling for natural oil convection of non-guided winding cooling arrangement Ibrahim, Z., Kadir, M.Z.A.A., Azis, N., (...), Izadi, M., Roslan, M.H. 2020 CFD Letters, 12(4), pp. 54-67.	1	$2/4 = 0.5$
3.1.4 Citat în articole din volumele unor manifestări științifice indexate BDI:		
Study the Thermal Performance of Electrical Transformers with Using New Types of Cooling Fluids, Hasan, M.I., Sharrad, R.H., Muter, D.M., (2022) AIP Conference Proceedings, 2398, art. no. 020048,	2	$1/4 = 0.25$
Prediction of oil hotspot temperature in a distribution transformer by CFD method, Raeisian, L., Werle, P., Niazmand, H., Ebrahimnia-Bajestan, E., (2018) VDE-Fachtagung Hochspannungstechnik 2018, pp. 276-281	2	$1/4 = 0.25$

Nr. crt.	Activități	nr citări	Punctaj
7	Design and Simulation of a Solar Tracking System for PV. Baouche, F.Z.; Abderezzak, B.; Ladmi, A.; Arbaoui, K.; Suci, G.; Mihaltan, T.C.; Raboaca, M.S.; Hudișteanu, S.V. ; Turcanu, F.E. Appl. Sci. 2022, 12, 9682. https://doi.org/10.3390/app12199682	1	3.61
	3.1.1 Citat în articole cotate ISI:		...
	Model to Determine the Best Modifications of Products with Consideration Customers' Expectations Ostasz, G; Siwiec, D and Pacana, A Nov 2022 ENERGIES 15 (21)	1	$10 \times 3.252/9 = 3.613$

Nr. crt.	Activități	nr citări	Punctaj
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8	Efficiency Analysis of BIPV Systems for Different Locations in Romania Hudisteanu S.V. , Popovici C.G., Mateescu T.D., Chereches N.-C. (2017) Energy Procedia, 112 , pp. 404-411.	4	20.46
	3.1.1 Citat în articole cotate ISI:	1	
			...
	Technical and economic viability of greenfield large scale photovoltaic plants in Romania Fratean, A and Dobra, P Oct 2022 SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS 53		$10 \cdot 7.632 / 4 = 19.08$
	3.1.2 Citat în articole din volumele unor manifestări științifice indexate ISI:	1	
			...
	Performance Analysis of the BIPV of an Industrial Park in Wuhan By: Ba Jingkang; Huang Xiaoli; Yan Guogang; et al. Conference: 2nd International Conference on Power and Energy Engineering (ICPEE) Location: Xiamen Univ Technol, Xiamen, PEOPLES R CHINA Date: SEP 03-05, 2018 2018 2ND INTERNATIONAL CONFERENCE ON POWER AND ENERGY ENGINEERING (ICPEE 2018) Book Series: IOP Conference Series-Earth and Environmental Science Volume: 192 Article Number: UNSP 012051 Published: 2018		$2.5 / 4 = 0.625$
	3.1.3 Citat în articole cotate BDI:	1	
			...
	A Review on Solar Photovoltaic System Efficiency Improving Technologies Manisha, Pinkey, Kumari, M., Sahdev, R.K., Tiwari, S. 2022 Applied Solar Energy (English translation of Geliotekhnika) 58(1), pp. 54-75		$2 / 4 = 0.5$
	3.1.4 Citat în articole din volumele unor manifestări științifice indexate BDI:	1	
			...
	Comparison Analysis on the Performance of the Filtered Photovoltaic (PV) Module Misran, M.F.R., Zainun, W.H.N.W., Wahab, M.N.H.A. 2021 Journal of Physics: Conference Series 1793(1), 012037		$1 / 4 = 0.25$

Nr. crt.	Activități	nr citări	Punctaj
9	Experimental Study on Airflow and Temperature Predicting in a Double Skin Façade in Hot and Cold Seasons in Romania. Cherecheș, M.L.; Cherecheș, N.C.; Ciobanu, A.A.; Hudișteanu, S.V. ; Țurcanu, E.F.; Bradu, A.; Popovici, C.G. Appl. Sci. 2021, 11, 12139. https://doi.org/10.3390/app112412139	1	10.29
	3.1.1 Citat în articole cotate ISI:	1	
	Control of heat transfer in single-story mechanically ventilated double skin facades Jankovic, A and Goia, F Sep 15 2022 ENERGY AND BUILDINGS 271		$10 \cdot 7.201 / 7 = 10.287$
			...

Nr. crt.	Activități	nr citări	Punctaj
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10	Numerical and Parametric Analysis for Enhancing Performances of Water Photovoltaic/Thermal System. El Fouas, C.; Cherecheș, N.C.; Hudișteanu, S.V. ; Hajji, B.; Țurcanu, E.F.; Cherecheș, M.L. Appl. Sci. 2022, 12, 646. https://doi.org/10.3390/app12020646	1	0.33
	3.1.3 Citat în articole cotate BDI:	1	2/6 = 0.333
	Numerical investigation and modelling of controllable parameters on the photovoltaic thermal collector efficiency in semi-humid climatic conditions Terrab, I., Rebah, N., Abdelouahed, S., Aillerie, M., Charles, J.-P. 2022 Energy Sources, Part A: Recovery, Utilization and Environmental Effects 44(4), pp. 8760-8776		
			...

	TOTAL	177	1263.65
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3.3 Membru în colective de redacție sau comitete științifice al revistelor și manifestărilor științifice, organizator de manifestări științifice; Recenzor pentru reviste și manifestări științifice

Punctaje unice pentru fiecare categorie, ce se acordă numai dacă sunt îndeplinite următoarele cerințe minime:

3.3.1 – minim 2 colective de redacție și minim 8 recenzii

3.3.2 – minim 2 colective de redacție și minim 8 recenzii

3.3.3 – minim 2 comitete științifice și minim 12 recenzii

Obs.: Pentru reviste, comitete științifice internaționale, valorile minime specificate se împart la 2.

3.3.1 Membru în colective de redacție sau recenzor pentru reviste cotate ISI

Nr. crt.	Activitate / Revistă
1	Recenzor Energies , 2020-2022, pentru articolele: 1. High – Pressure Fast Pyrolysis of Biomass 2. A pre-feasibility solar photovoltaic tool for small island developing states 3. Reduced Model and Comparative Analysis of the Thermal Performance of Indirect Solar Dryer with and without PCM 4. Crack Extraction for Polycrystalline Solar Panels
2	Recenzor Electronics , 2021, pentru articolele: 5. An Improved Sliding Mode Controller for MPP Tracking of the Photovoltaics 6. A United Control Strategy of Photovoltaic-Battery Energy Storage System Based on Voltage-Frequency Controlled VSG
3	Recenzor Energy Sources, Part A: Recovery, Utilization and Environmental Effects , 2022, pentru articolele: 7. Experimental investigation of Effect of Dust Accumulation and Discoloration on Photovoltaic Panel Material 8. Performance Analysis of Solar PV system using customise wireless data acquisition system and novel cleaning technique
	Punctaj=10

3.3.2 Membru în colective de redacție sau recenzor pentru reviste cotate BDI

Nr. crt.	Activitate / Revistă
1	Recenzor Energy Exploration & Exploitation , 2018-2020, pentru articolele: 1. Does change of industrial structure affect energy consumption structure: A study based on the perspective of energy grade calculation 2. Effect of Heat Transfer Coefficient on Building Envelope Performances and Envelope Optimization Design Method for Prefabricated Toilet
2	Recenzor Atmosphere , 2022, pentru articolele: 3. Numerical Study on Microclimate and Outdoor Thermal Comfort of Street Canyon Typology in Extremely Hot Weather - A Case Study of Busan, South Korea 4. Performance Evaluation of the RANS Models in Predicting the Pollutant Concentration field Within a compact Urban Setting: Effects of the Source Location and Turbulent Schmidt Number
3	Recenzor Heat Transfer - Asian Research , 2022, pentru articolele: 5. A parametric study of a photovoltaic panel with cylindrical fins under still and moving air conditions in Iraq 6. An experimental investigation to augment the efficiency of photovoltaic panels by using longitudinal fins
4	Recenzor Heat Transfer - Asian Research , 2019-2021, pentru articolele: 7. Further progress in the research of fin based passive cooling technique for the free-standing silicon photovoltaic panels 8. Novel silica-based PV glass cover with nano-pyramidal coating providing higher radiative cooling and power production compared to state-of-the-art glass covers
	Punctaj = 6

3.3.3 Membru în comitete științifice, organizator sau recenzor pentru manifestări științifice

Nr. crt.	Activitate / Manifestare științifică
1	Recenzor și membru: Building Services and Energy Efficiency e-Conference , July 2, 2020 - July 3, 2020, Iași, Romania: 1. Experimental research of mitigation systems for controlling and reducing radon exposure in residential buildings 2. Parametric optimization and calculation of vibrations introduced by propulsion installation 3. Experimental investigation on the sound pressure level for different acoustic treatment of thermal power plants 4. Experimental study of an indoor air purifier on the air quality inside an apartment Influence of shading systems on energy performance of buildings with large glazing areas
2	Recenzor și membru în comitetul științific: REHVA 13th HVAC World Congress – CLIMA 2019 , Bucharest: 5. Performance investigation of indoor thermal environment and air handling unit in a hub airport terminal 6. Ventilation and environmental control of underground spaces: a short review 7. Primary energy and economic performances of mechanical ventilation retrofit solutions for Swedish multi-storey residential buildings 8. Compact ventilation and heat pump with recirculation air for renovation of small apartments 9. An industry perspective on building simulations with solar shading 10. The Influence on Daylight and Energy Consumption of Expanded Metal Mesh Applied on Building Façades 11. Optimal design of an indoor environment using an adjoint RNG k-ε turbulence model
3	Recenzor și membru în comitetul științific: 15th Computational Civil Engineering Conference – CCE 2019 , 30-31 May, Iași: 11. Energy efficiency in historic buildings

Nr. crt.	Activitate / Manifestare științifică
4	Recenzor și membru: 27th International Conference – BSEE 2017, Building Services and Energy Efficiency , 6 – 7 July 2017, IASI: 12. Energy efficiency in historic buildings 13. Energy from renewable sources for improving energy efficiency in heritage historic buildings
5	Recenzor și membru în comitetul științific: Computational Civil Engineering CCE2017 , Iasi: 14. Benchmark Analysis Between a Two-Zone Fire Model and a CFD Fire Model
	Punctaj = 4

Centralizarea rezultatelor este prezentată în tabelul următor, menționându-se că sunt îndeplinite toate criteriile prevăzute în standardele CNATDCU.

Tabelul 2: Condiții minime

Criterii naționale				
Nr crt.	Domeniul de activitate	Condiții Conferențiar	Punctaj candidat	Concluzii
1.	Activitate didactică/profesională (A1)	Minim 30 puncte	103.63	Criteriu îndeplinit
2.	Activitate de cercetare (A2)	Minim 180 puncte	354.16	Criteriu îndeplinit
3.	Recunoaștere și impactul activității (A3)	Minim 40 puncte	1263.65	Criteriu îndeplinit
TOTAL (A = A1+A2+A3)		Minim: 250	1721.45	Criteriu îndeplinit

Data: 09.01.2023

Candidat: Șef lucrări dr.ing. Hudișteanu Valeriu-Sebastian

