

Fisa de evaluare CNADCU

Conf. Dr. Paulescu Eugenia

1. Activitatea didactică și profesională

A1 - Cărți în edituri internaționale recunoscute *Web of Science* în calitate de autor

Nr. crt.	Titlul	Autori	Editura, an, link (dacă este cazul)	Punctaj $4 / n_i^{ef}$
1.1	Weather Modeling and Forecasting of PV Systems Operation. https://www.springer.com/gp/book/9781447146483	Paulescu M, <u>Paulescu E</u> , Gravila P, Badescu V	Springer, London (2013) ISBN: 978-1-4471-4648-3	1
Punctaj total indicator A1				1

Editurile recunoscute *Web of Science* se găsesc pe site-ul *Web of Science – Master Book List-Publishers* (<http://wokinfo.com/mbl/publishers/>)

Se acordă $4 / n_i^{ef}$ puncte pentru fiecare carte .

Documente justificative: Copie în format hard, în format electronic sau link pe pagina web a editurii.

A2 - Capitoare de cărți în edituri internaționale recunoscute *Web of Science*, în calitate de autor/ Review-uri în reviste cotate ISI

Nr. crt.	Titlul capitolului - titlul cărții / titlul Review-ului	Autori	Editura, an / revista, an, pagini, link (dacă este cazul)	Punctaj $1 / n_i^{ef}$
1	Integration of spectral atmospheric transmittances: Parametric models for solar irradiance	<u>Eugenia Paulescu</u> , Marius Paulescu and Sergiu Mihai Hategan	Elsevier, (2025), Pages139-172, https://doi.org/10.1016/B978-0-443-23839-0.00006-7	0.333
2	Short-term Solar Power Forecasting for Smart-grid Management	Paulescu M., <u>Paulescu E</u> .	Bentham Science Publishers Pte. Ltd., Pages 138-158 (2022)	0.5



			https://eurekaselect.com/ebook_volume/3344	
3	Nowcasting solar irradiance for effective solar power plants operation and smart grid management	Paulescu M., <u>Paulescu E.</u> , Badescu V.	Elsevier, (2020), Pages 249-270, https://www.sciencedirect.com/science/article/pii/B9780128177723000094	0.333
4	Ångström–Prescott equation: Physical basis, empirical models and sensitivity analysis.	Paulescu M, Stefu N, Calinoiu D, <u>Paulescu E.</u> , Pop N, Boata R, Mares O.	Renewable and Sustainable Energy Reviews 62 (2016) 495-506. https://www.sciencedirect.com/science/article/abs/pii/S1364032116300296	0.166
5	Recent Advances in Fuzzy Modeling of Solar Radiation	Paulescu M, <u>Tulcan-Paulescu E.</u> , Stefu N, Boata RS	In Solar Radiation: Protection, Management and Measurement Techniques (Fatih O. Hocaoglu, Ed), Nova Science, New York (2012) ISBN: 978-1-61470-064-7 http://www.novapublishers.org/catalog/product_info.php?products_id=26339	0.25
6	Algorithms in Electronic States in Artificial Semiconductors of use in Quantum Solar Cells Engineering	<u>Eugenia Tulcan - Paulescu</u> , M. Paulescu	In. Physics of Nanostructured Solar Cells Nova Science, New York (2010)	0.5

			ISBN: 978-1-60876-110-4 http://www.novapublishers.org/catalog/product_info.php?products_id=10775	
Punctaj total indicator A2				2.082

Editurile recunoscute Web of Science se găsesc pe site-ul Web of Science – Master Book List-Publishers (<http://wokinfo.com/mbl/publishers/>)

Se acordă $1/n_i^{ef}$ puncte pentru fiecare item.

Documente justificative: Copie în format hard, în format electronic sau link pe pagina web a editurii / revistei.

A4 - Cărți, manuale, îndrumătoare de laborator în edituri naționale sau alte edituri internaționale ca autor

Nr. crt.	Titlul	Autori	Editura, an, link (dacă este cazul)	Punctaj $0.5 / n_i^{ef}$
1.	Elemente de dimensionare a sistemelor fotovoltaice	Paulescu M, <u>Tulcan-Paulescu E.</u>	Editura Universitatii de Vest, Timisoara (2010) ISBN: 978-973-125-322-0	0.25
2.	Sisteme fotovoltaice distribuite	<u>E. Tulcan-Paulescu,</u> M. Paulescu	Editura Universitatii de Vest, Timisoara (2009) ISBN: 978-973-125-257-5	0.25
3.	Modelarea numerica a celulelor fotovoltaice nanostructurate	Paulescu M, Neculae A, <u>Tulcan-Paulescu E,</u> Comanescu D.	Editura Universitatii de Vest, Timisoara (2008) ISBN: 978-973-125-174-5	0.125
4.	Masurarea si estimarea radiatiei solare	Paulescu M, Neculae A, <u>Tulcan-Paulescu E.</u>	Editura Universitatii de Vest, Timisoara (2008) ISBN: 978-973-125-189-9	0.166

5.	Elemente de nanotehnologie	Eugenia Tulcan-Paulescu, M. Paulescu	Editura Universitatii de Vest, Timisoara (2007) ISBN: 978-973-125-082-3	0.25
6.	Sisteme fotovoltaice	Fara L, Tulcan-Paulescu E, Paulescu M.	Editura MatrixROM, Bucuresti (2005) ISBN: 973-685-960-6	0.166
Punctaj total indicator A ₄				1.207

Se acordă $0.5 / n_i^{ef}$ puncte pentru fiecare item.

A6 - Lucrări în extenso (cel puțin 3 pagini) publicate în Proceedings-uri cu ISBN indexate ISI

Nr. crt.	Titlul	Autori	Revista, editura, an, link (dacă este cazul)	Punctaj $0.2 / n_i^{ef}$
1.	A Simplified but Accurate UV Index Model	Paulescu, E ; Iman, V ; Dughir, C ; Stefu, N ; Paulescu, M	Conference: 17th Physics Conference Location: Timisoara, ROMANIA Date: MAY 25-27, 2017 TIM17 PHYSICS CONFERENCE Book Series: AIP Conference Proceedings Volume: 1916 Article Number: UNSP 040010 Published: 2017 https://aip.scitation.org/doi/abs/10.1063/1.5017449	0.04
2.	Atmospheric Transmittance Model for Photosynthetically Active Radiation	Paulescu M, Stefu N, Gravila P, Paulescu E, Pop N, Calinoiu D, Boata R, Pacurar A Mares O	Atmospheric Transmittance Model for Photosynthetically Active Radiation TIM 2012 PHYSICS CONFERENCE Book Series: AIP Conference	0.028

			Proceedings Volume: 1 564 Pages: 188-193 Published: 2013 (6 pagini) http://scitation.aip.org/content/aip/proceeding/aipcp/10.1063/1.4832816	
3.	Global Solar Irradiation Modeling and Measurements in Timisoara	Jurca, T, <u>Tulcan-Paulescu E</u>, Dughir C, Lascu M, Gravila P, De Sabata A, Luminosu I, De Sabata C, Paulescu M.	PHYSICS CONFERENCE (TIM-10) Book Series: AIP Conference Edited by: Bunoiu, M; Malaescu, Proceedings Volume: 1 387 Published: 2011 (6 pagini) http://scitation.aip.org/content/aip/proceeding/aipcp/10.1063/1.3647083	0.028
4.	Fuzzy Sets Theory Applied for Computing Global Solar Irradiation	St Boata R, Paulescu M, <u>Tulcan-Paulescu, E</u>, Gravila P.	PHYSICS CONFERENCE (TIM-10) Book Series: AIP Conference Proceedings. Edited by: Bunoiu, M; Malaescu, I Volume: 1387 Published: 2011 (6 pagini) http://scitation.aip.org/content/aip/proceeding/aipcp/10.1063/1.3647057	0.05
5.	Recent Advances in Photovoltaics at the West University of Timisoara	<u>Tulcan-Paulescu, E</u> ; Gravila, P ; Paulescu, M	Conference: Physics Conference (TIM 2009) Location: Timisoara, ROMANIA Date: NOV 27-28, 2009	0.066

			Sponsor(s): W Univ Timisoara TIM-09: PROCEEDINGS OF THE PHYSICS CONFERENCE Book Series: AIP Conference Proceedings Volume: 1262 Pages: 161-166 Published: 2010 https://aip.scitation.org/doi/10.1063/1.3482225	
6.	Integration of PV Modules in Existing Romanian Buildings	Fara, S ; Finta, D ; Iancu, M ; Fara, L ; Dabija, AM ; <u>Tulcan-Paulescu, E</u>	PROCEEDINGS OF 2010 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR 2010), VOLS. 1-3 Book Series: IEEE International Conference on Automation Quality and Testing Robotics Published:2010 Document Type:Proceedings Paper https://ieeexplore.ieee.org/document/5520783	0.036
7.	A simple but accurate multiband solar cells model	Paulescu, M ; <u>Tulcan-Paulescu, E</u>; Neculae, A ; Gravila, P	Conference: Conference on Photonics for Solar Energy Systems II Location: Strasbourg, FRANCE Date: APR 07-08, 2008 PHOTONICS FOR SOLAR ENERGY SYSTEMS II Book	0.05

			Series: Proceedings of SPIE Volume: 7002 Article Number: 70020T Published: 2008 https://www.spiedigitallibrary.org/conference-proceedings-of-spie/7002/70020T/A-simple-but-accurate-multiband-solar-cells-model/10.1117/12.779434.short?SSO=1	
8.	The role of the thermo-transport and heat loss in the axial macrosegregation	Tulcan-Paulescu, E; Balint, AM; St Balint	ADVANCED COMPUTATIONAL METHODS IN HEAT TRANSFER VII Edited by: Sunden, B; Brebbia, CA. Book Series: COMPUTATIONAL STUDIES. Volume: 4, Pages: 313-318, Published: 2002, Document Type: Proceedings Paper Conference: 7th International Conference on Advanced Computational Methods in Heat Transfer Location: HALKIDIKI, GREECE https://www.witpress.com/elibray/wit-transactions-on-engineering-sciences/35/421	0.066



9.	On the controllability of the flow of a magnetic fluid by a magnetic field	<u>Paulescu, E</u> ; Balint, AM	Conference: 3rd International Conference on Nonlinear Problems in Aviation and Aerospace Location: EMBRY RIDDLE AERONAUT UNIV, DAYTONA BEACH, FL Date: MAY 10-12, 2000 THIRD INTERNATIONAL CONFERENCE ON NONLINEAR PROBLEMS IN AVIATION AND AEROSPACE, VOLS 1 AND 2, PROCEEDINGS Pages: 653-658 Published: 2002	0.1
Punctaj total indicator A ₆				0.464

Se acordă $0.2 / n_i^{ef}$ puncte pentru fiecare item.

Documente justificative: Copie în format hard, în format electronic sau link pe pagina web a editurii .

A10 – Director /responsabil pentru proiecte de cercetare câștigate prin competiție națională sau internațională; proiectele de la punctul A₉ se exclud).

Nr. crt.	Titlul proiectului	Calitatea (director sau responsabil)	Autoritatea contractantă, link (dacă este cazul)	Punctaj $V / 100.000$
1.	Starting grant UNITA Research of the photovoltaic hybrid systems in the mountain area (2025-2026) Valoare contractata UVT in 2025: 25 000 lei (5 000 Euro)		UEFISCDI	0.05
2.	PN II 21039/2007, PASOR: Cercetări privind elaborarea și		UEFISCDI	1

	promovarea soluțiilor de arhitectură solară pentru sisteme PV integrate în clădiri (2007-2010)			
	Valoare contractată UVT în 2007: 350 000 lei (100 000 Euro)			
Punctaj total indicator A ₁₀				1.05

Se acordă $V / 100.000$ puncte pentru fiecare item, unde V este valoarea contractului în euro. Sumele în lei sau în alte valute se convertesc în euro la cursul mediu din anul respectiv conform www.bnr.ro pentru perioada de după 1999 și la cursul din 1999 pentru perioada anterioară. Responsabilii de proiect sunt cei care conduc o echipă de cercetare, fiind menționați ca atare în proiectul depus; în cazul lor se consideră doar suma aferentă echipei conduse. Documente justificative: Copie în format hard sau în format electronic după devizul postcalcul.

Precizări:

- n_i^{ef} reprezintă numărul efectiv de autori ai itemului i și ia următoarele valori:
 n_i dacă $n_i \leq 5$, $(n_i + 5)/2$ dacă $5 < n_i \leq 15$, $(n_i + 15)/3$ dacă $15 < n_i \leq 75$ și $(n_i + 45)/4$ dacă $n_i > 75$, unde n_i reprezintă numărul de autori ai articolului i . În cazul publicațiilor HEPP (High Energy Particle Physics) cu număr mare de autori, dacă articolul are la bază o notă internă a experimentului la care candidatul este coautor, atunci n_i^{ef} poate fi dat de numărul de autori din nota internă.
- Lucrările de tip "Article. Proceedings paper" pot fi considerate la activitatea de cercetare sau la cea didactică și profesională, o singură dată, la alegerea candidatului.

Punctaj total obținut pentru activitatea didactică și profesională:

$$A = \sum_{i=1}^{10} A_i = 1 + 2.082 + 1.207 + 0.464 + 1.05 = 5.803$$

Profesor A>2

2. Activitatea de cercetare

2.1 – Articole științifice originale, în extenso, ca autor

Nr crt	Referința bibliografică (Autori, Titlul, Revista, Vol., anul, pag. încep. – pag.sf.)	AIS_i	n_i	n_i^{ef}	AIS_i / n_i^{ef}

1.	<u>Eugenia Tulcan</u> , Victor Sofonea, Morphology of cluster formation in magnetic fluids, Journal of Magnetism and Magnetic Materials, 1999, Vol. 201, 238-241. https://www.sciencedirect.com/science/article/abs/pii/S0304885399000943	0.6	2	2	0.3
2.	<u>Eugenia Tulcan Paulescu</u> , Agneta Balint, Stefan Balint, The effect of the initial dopant distribution in the melt on the axial compositional uniformity of a thin doped crystal grown in strictly zero-gravity environment by Bridgman-Stockbarger method, Journal of Crystal Growth, 2003, Vol 247, 313-319. https://www.sciencedirect.com/journal/journal-of-crystal-growth/vol/247/issue/3	0.6	3	3	0.2
3.	Marius Paulescu, <u>Eugenia Tulcan Paulescu</u> , Assessments on the multijunction solar cells photoelectric efficiency related to the semiconductor band gap and outdoor conditions, Modern Physics Letters B, 2005, Vol. 19, 447-459. https://www.worldscientific.com/doi/abs/10.1142/S0217984905008414	0.2	2	2	0.1
4.	Marius Paulescu, Laurentiu Fara, <u>Eugenia Tulcan Paulescu</u> , Models for obtaining daily global solar irradiation from air temperature data, Atmospheric Research, 2006, Vol. 79, 227-240. https://www.sciencedirect.com/journal/atmospheric-research/vol/79/issue/3	0.7	3	3	0.233
5.	Marius Paulescu, <u>Eugenia Tulcan Paulescu</u> , Adrian Neculae, Paul Gravila, Internal Reflection Influence on the Multiple Quantum Well Solar Efficiency, Journal of Optoelectronics and Advances Materials, 2008, Vol. 10, 2441-2444. https://old.joam.inoe.ro/index.php?option=magazine&op=view&id u=1633&catid=30	0.113	4	4	0.028
6.	<u>Eugenia Tulcan-Paulescu</u> , Marius Paulescu, Fuzzy modeling of solar irradiation using air temperature data, Theoretical and Applied Climatology, 2008, Vol. 91, 181-102. https://link.springer.com/article/10.1007/s00704-007-0304-6?error=cookies_not_supported&code=86512abd-e652-41f7-8532-efb8dc811195	0.964	2	2	0.482

7.	Marius Paulescu, Paul Gravila, <u>Eugenia Tulcan Paulescu</u> , Fuzzy logic algorithms for atmospheric transmittances of use in solar energy estimation, Energy Conversion and Management, 2008, Vol. 49, 3691-3697. https://www.sciencedirect.com/science/article/pii/S0196890408002525	0.718	3	3	0.239
8.	<u>Eugenia Tulcan Paulescu</u> , Dan Comanescu, Marius Paulescu, On quantum hydrodynamic models for electronic transport in nanoscale semiconductor device, Modern Physics Letters B, 2010, Vol. 24, 401-409. https://www.worldscientific.com/doi/abs/10.1142/S0217984910022470	0.143	3	3	0.047
9.	Marius Paulescu, <u>Eugenia Tulcan Paulescu</u> , Paul Gravila, A hybrid model for quantum well solar cell, International Journal of Modern Physics B, 2010, Vol. 24, 2121-2133. https://www.worldscientific.com/doi/10.1142/S0217979210055615	0.158	3	3	0.052
10.	Marius Paulescu, <u>Eugenia Tulcan Paulescu</u> , Paul Gravila, Pseudo-Gaussian superlattice, International Journal of Modern Physics C, 2010, Vol. 21, 1095-1105. https://www.worldscientific.com/doi/10.1142/S0129183110015695	0.256	3	3	0.085
11.	Paulescu, Marius; Dughir, Ciprian; Tulcan-Paulescu, Eugenia; Lascu Mihaela, Gravila Paul, Jurca Traian; SOLAR RADIATION MODELING AND MEASUREMENTS IN TIMISOARA, ROMANIA: DATA AND MODEL QUALITY, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, 2010, Volume: 9, Issue: 8, Pages: 1089-1095 http://www.eemj.icpm.tuiasi.ro/issues/vol9/vol9no8.htm	0.085	6	5.5	0.015
12.	Marius Paulescu, Nicoleta Stefu, <u>Eugenia Tulcan Paulescu</u> , Delia Calinoiu, Adrian Neculae, Paul Gravila, UV solar irradiance from broadband radiation and other meteorological data, Atmospheric Research, 2010, 96, 141-148. https://www.sciencedirect.com/science/article/pii/S0169809509003469	0.642	6	5.5	0.116

13.	Marius Paulescu, <u>Eugenia Tulcan Paulescu</u> , Paul Gravila, PGO models in the envelope function and effective mass approximation, European Physical Journal B, 2011, Vol. 80, 115-120. https://link.springer.com/article/10.1140/epjb/e2011-10885-7	0.685	3	3	0.228
14.	Marius Paulescu, <u>Eugenia Tulcan Paulescu</u> , Nicoleta Stefu, A temperature-based model for global solar irradiance and its application to estimate daily irradiation values, International Journal of Energy Research, 2011, Vol. 35 , Issue 6, 520-529. https://onlinelibrary.wiley.com/doi/10.1002/er.1709	0.586	3	3	0.195
15.	<u>Eugenia Paulescu</u> , Nicoleta Stefu, Paul Gravila, Remus Stefan Boata, Nicolina Pop, Marius Paulescu, Procedure of embedding biological action functions into the atmospheric transmittance, Theoretical and Applied Climatology, 2012, Vol. 109, 323-332. https://link.springer.com/journal/704/109/3/page/1	0.807	6	5.5	0.146
16.	Delia Calinoiu, Marius Paulescu, Ioana Ionel, Nicoleta Stefu, Nicolina Pop, Remus Boata, Angel Pacurar, Paul Gravila, <u>Eugenia Paulescu</u> , Gavrilă Trif Tordai, Influence of aerosols pollution on the amount of collectable solar energy, Energy Conversion and Management, 2013, Vol. 70, 76-82. https://www.sciencedirect.com/science/article/pii/S0196890413001039	0.771	10	7.5	0.102
17.	Pacurar, Angel; Stefu, Nicoleta; Mares, Oana; <u>Paulescu Eugenia</u> ; Calinoiu Delia; Pop Nicolina; Boata Remus; Gravila Paul; Paulescu Marius; Forecasting hourly global solar irradiation using simple non-seasonal models, JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY 2013, Vol. 5 Issue: 6 Article Number: 063140 https://aip.scitation.org/doi/full/10.1063/1.4858617	0.281	9	7	0.04
18.	Daniela Stefania Grecu, <u>Eugenia Paulescu</u> , Quality in post-analytical phase: Indirect reference intervals for erythrocyte parameters of neonates, Clinical Biochemistry, Vol. 48, 2013, 617-621. https://www.sciencedirect.com/science/article/pii/S000991201300088X	0.585	2	2	0.292
19.	Daniela Stefania Grecu, <u>Eugenia Paulescu</u> , Quality assurance in the laboratory testing process: Indirect estimation of the reference	0.595	2	2	0.297

	intervals for platelet parameters in neonates, Clinical Biochemistry, Vol. 47, 2014, 33-37. https://www.sciencedirect.com/science/article/pii/S0009912014004949				
20.	Delia Gabriela Calinoiu, Nicoleta Stefu, Marius Paulescu, Gavrilă Trif Tordai, Oana Mares, <u>Eugenia Paulescu</u> , Remus Boata, Nicolina Pop, Angel Pacurar, Evaluation of errors made in solar irradiance estimation due to averaging the Angstrom turbidity coefficient, Atmospheric Research, 2014, Vol. 150, 69-78. https://www.sciencedirect.com/science/article/pii/S0169809514002786	0.927	9	7	0.132
21.	Marius Paulescu, Oana Mares, Eugenia Paulescu, Nicoleta Stefu, Angel Pacurar, Delia Calinoiu, Paul Gravila, Nicolina Pop, Remus Boata, Nowcasting solar irradiance using the sunshine number, Energy Conversion and Management, 2014, Vol. 79, 690-697. https://www.sciencedirect.com/science/article/pii/S0196890414000132	0.743	9	7	0.106
22.	<u>Eugenia Paulescu</u> , Robert Blaga, Regression models for hourly diffuse solar radiation, Solar Energy, Vol. 125, 2016, 111-124. https://www.sciencedirect.com/science/article/abs/pii/S0038092X15006672	0.830	2	2	0.415
23.	Nicoleta Stefu, Marius Paulescu, Robert Blaga, Delia Calinoiu, Nicolina Pop, Remus Boata, <u>Eugenia Paulescu</u> , . A theoretical framework for Angstrom equation, Energy Conversion and Management, Vol. 112, 2016, 236-245. https://www.sciencedirect.com/science/article/pii/S0196890416000388	0.890	7	6	0.148
24.	N. Stefu, M. Paulescu, P. Gravila, <u>E. Paulescu</u> , N. Pop, R. Boata, Model for the UV biologically effective dose and application under future climate Conditions, Environmental Engineering and Management Journal 16, 225-234 (2017) http://www.eemj.eu/index.php/EEMJ/article/view/3173	0.086	6	5.5	0.015
25.	M. Paulescu, N. Pop, N. Stefu, <u>E. Paulescu</u> , R. Boata, D. Calinoiu, Seasonal Modeling of Hourly Solar Irradiation Series, Romanian Journal of Physics(2017), 62(7-8)Article No 813. http://www.nipne.ro/rjp/2017_62_7-8.html	0.259	6	5.5	0.047

26.	Calinoiu, D; Stefu, N; Boata, R, <u>Blaga, R</u> ,Pop, N , <u>Paulescu, E</u> , Sabadus, A, Paulescu, M. Parametric modeling: A simple and versatile route to solar irradiance, ENERGY CONVERSION AND MANAGEMENT Volume: 164 Pages: 175-187 Published: MAY 15 2018 https://www.sciencedirect.com/science/article/pii/S019689041830195X	1.007	8	6.5	0.154
27.	<u>Paulescu, Eugenia</u> ; Blaga, Robert, A simple and reliable empirical model with two predictors for estimating 1-minute diffuse fraction SOLAR ENERGY Volume: 180 Pages: 75-84 Published: MAR 1 2019 https://www.sciencedirect.com/science/article/abs/pii/S0038092X19300386	0.8	2	2	0.4
28.	Paulescu Marius, Paulescu Eugenia, Short-term forecasting of solar irradiance, Renewable Energy, Vol. 143, 2019, 985-994 https://www.sciencedirect.com/science/article/abs/pii/S0960148119307487	0.941	2	2	0.47
29.	Blaga, R; Calinoiu, D; Stefu, N; Boata, R ; Sabadus, A ; <u>Paulescu, E</u> ; Pop, N ; Mares, O; Bojin, S ; Paulescu, M, Quantification of the aerosol-induced errors in solar irradiance modeling, METEOROLOGY AND ATMOSPHERIC PHYSICS, Volume133, Issue4, Page1395-1407, 2021. https://link.springer.com/article/10.1007/s00703-021-00815-z	0.552	10	7.5	0.073
30.	Paulescu E., Paulescu M., A new clear sky solar irradiance model, RENEWABLE ENERGY, Volume179, Page 2094-2103, 2021. https://www-sciencedirect-com.am.e-information.ro/science/article/pii/S0960148121011897	1.227	2	2	0.613
31.	Paulescu E., Paulescu M., A Semi-Analytical Model for Separating Diffuse and Direct Solar Radiation Components, APPLIED SCIENCES-BASEL, Volume12, Issue24, Article Number12759, 2022. https://www.mdpi.com/2076-3417/12/24/12759	0.414	2	2	0.207
32.	<u>Paulescu E.</u> , Paulescu M., Minute-Scale Models for the Diffuse Fraction of Global Solar Radiation Balanced between Accuracy and Accessibility, APPLIED SCIENCES-BASEL, Volume13, Issue11,	0.428	2	2	0.214

	Article Number 6558, 2023. https://www.mdpi.com/2076-3417/13/11/6558				
33.	Andreea Sabadus, Robert Blaga, Sergiu-Mihai Hategan, Delia Calinoiu, <u>Eugenia Paulescu</u> , Oana Mares, Remus Boata, Nicoleta Stefu, Marius Paulescu, Viorel Badescu, A cross-sectional survey of deterministic PV power forecasting: Progress and limitations in current approaches, Renewable Energy, Volume 226, 120385, 2024. https://www.sciencedirect.com/science/article/pii/S0960148124004506	1.321	10	7.5	0.176
34.	Robert Blaga, Oana Mares, <u>Eugenia Paulescu</u> , Remus Boata, Andreea Sabadus, Sergiu-Mihai Hategan, Delia Calinoiu, Nicoleta Stefu, Marius Paulescu, Diffuse fraction as a tool for exploring the sensitivity of parametric clear-sky models to changing aerosol conditions, Solar Energy, Volume 277, 112731, 2024 https://www.sciencedirect.com/science/article/pii/S0038092X24004262	1.009	9	7	0.144
35.	<u>Eugenia Paulescu</u> , Lucas Velimirovici, Marius Paulescu, Clear sky solar irradiance models derived through interdependent parameterization, Renewable Energy, Volume 250, 123371, 2025 https://doi.org/10.1016/j.renene.2025.123371	1.321	3	3	0.440
36.	George Stirban, <u>Eugenia Paulescu</u> , Mathematical Assessment of Aerosol Impact on the Diffuse-to-Global Ratio of Solar UV Radiation, Mathematics, (2026) Volume 14, Issue 1, Nr. 50 https://www.mdpi.com/2227-7390/14/1/50	0.373	2	2	0.186
37.	Hategan, SM., <u>Paulescu, E.</u> , Paulescu, M. Atmospheric aerosol effects on spectral mismatch and the resulting uncertainty in photovoltaic performance. Scientific Reports (2026). https://doi.org/10.1038/s41598-026-36144-7	1.031	3	3	0.343
38.	Hategan S-M, <u>Paulescu E</u> , Dughir C, Paulescu M. Past and Future Trends in Atmospheric Transparency Derived from a Revised Formulation of the Ångström–Prescott Equation. Atmosphere. 2026; 17(1):103. https://doi.org/10.3390/atmos17010103	0.534	4	4	0.133
39.	Lucas Velimirovici, <u>Eugenia Paulescu</u> , Marius Paulescu, Short-Term Solar Irradiance Forecasting Using Random Forest-Based Models with a Focus on Mountain Locations, Energies, (2026) Volume 19, Issue 3, Section A:Sustainable Energies, Special Issue	0.471	3	3	0.157

	The Future of Renewable Energy: 2nd Edition. https://doi.org/10.3390/en19030769				
40.	Viviana Sirbu, Eugenia Paulescu, Parametric Clear-Sky Solar Irradiance Model with Improved Diffuse Flux Estimation, Energies, 19, 1842 (2026) https://doi.org/10.3390/en19081842	0.471	2	2	0.235
Punctaj total indicator 2.1					I = 8.005

Documente justificative: Copie în format hard, în format electronic sau link pe pagina web a revistei.

Precizări:

- AIS_i – scorul de influență absolut al revistei respective din anul de publicare (conform cu www.eigenfactor.org pentru articolele publicate până în 2006, respectiv Journal Citation Reports (ISI web of Science) începând cu 200 (www.isiknowledge.com)); în cazul în care anul de publicare nu se regăsește în baza de date, se va alege valoarea corespunzătoare anului cel mai apropiat de cel în care a fost publicat articolul.
- n_i^{ef} reprezintă numărul efectiv de autori ai itemului i și ia următoarele valori:
$$n_i^{ef} = \begin{cases} n_i, & n_i \leq 5 \\ (n_i + 5) / 2, & n_i \in [5, 15] \\ (n_i + 15) / 3, & n_i \in [15, 75] \\ (n_i + 45) / 4, & n_i \geq 75 \end{cases}$$
- În cazul publicațiilor HEPP (High Energy Particle Physics) cu număr mare de autori, dacă articolul are la bază o notă internă a experimentului la care candidatul este coautor, atunci n_i^{ef} poate fi dat de numărul de autori din nota internă.

2.2 – Articole științifice originale în extenso ca prim autor sau autor corespondent, conform mențiunilor de pe articol.

Nr.	Referința bibliografică (Autori, Titlul, Revista, Vol., anul, pag.inceput-pag.sfârșit)	AIS_i
1.	<u>Eugenia Tulcan</u> , Victor Sofonea, Morphology of cluster formation in magnetic fluids, Journal of Magnetism and Magnetic Materials, 1999, Vol. 201, 238-241. https://www.sciencedirect.com/science/article/abs/pii/S0304885399000943	0.6
2.	<u>Eugenia Tulcan Paulescu</u> , Agneta Balint, Stefan Balint, The effect of the initial dopant distribution in the melt on the axial compositional uniformity of a thin doped crystal grown in strictly zero-gravity environment by Bridgman-Stockbarger method, Journal of Crystal Growth, 2003, Vol 247, 313-319. https://www.sciencedirect.com/journal/journal-of-crystal-growth/vol/247/issue/3	0.6
3.	<u>Eugenia Tulcan Paulescu</u> , Marius Paulescu, Fuzzy modeling of solar irradiation using air temperature data Theoretical and Applied Climatology, 2008, Vol. 91, 181-102.	0.964

	https://link.springer.com/article/10.1007/s00704-007-0304-6?error=cookies_not_supported&code=86512abd-e652-41f7-8532-efb8dc811195	
4.	<u>Eugenia Tulcan Paulescu</u> , Dan Comanescu, Marius Paulescu, On quantum hydrodynamic models for electronic transport in nanoscale semiconductor device, Modern Physics Letters B, 2010, Vol. 24, 401-409. https://www.worldscientific.com/doi/abs/10.1142/S0217984910022470	0.143
5.	<u>Eugenia Paulescu</u> , Nicoleta Stefu, Paul Gravila, Remus Stefan Boata, Nicolina Pop, Marius Paulescu, Procedure of embedding biological action functions into the atmospheric transmittance, Theoretical and Applied Climatology, 2012, Vol. 109, 323-332. https://link.springer.com/journal/704/109/3/page/1	0.807
6.	Daniela Stefania Grecu, <u>Eugenia Paulescu</u> , Quality in post-analytical phase: Indirect reference intervals for erythrocyte parameters of neonates, Clinical Biochemistry, Vol. 48, 2013, 617-621. https://www.sciencedirect.com/science/article/pii/S000991201300088X	0.585
7.	Daniela Stefania Grecu, <u>Eugenia Paulescu</u> , Quality assurance in the laboratory testing process: Indirect estimation of the reference intervals for platelet parameters in neonates, Clinical Biochemistry, Vol. 47, 2014, 33-37. https://www.sciencedirect.com/science/article/pii/S0009912014004949	0.595
8.	<u>Eugenia Paulescu</u> , Robert Blaga, Regression models for hourly diffuse solar radiation, Solar Energy, Vol. 125, 2016, 111-124. https://www.sciencedirect.com/science/article/abs/pii/S0038092X15006672	0.830
9.	<u>Paulescu, Eugenia</u> ; Blaga, Robert, A simple and reliable empirical model with two predictors for estimating 1-minute diffuse fraction, SOLAR ENERGY Volume: 180 ,2019, Pages: 75-84 https://www.sciencedirect.com/science/article/abs/pii/S0038092X19300386	0.805
10.	Paulescu Marius, <u>Paulescu Eugenia</u> , Short-term forecasting of solar irradiance, Renewable Energy, Vol. 143, 2019, 985-994 https://www.sciencedirect.com/science/article/abs/pii/S0960148119307487	1.044
11.	<u>Eugenia Paulescu</u> , Marius Paulescu, A new clear sky solar irradiance model, RENEWABLE ENERGY, Volume179, Page2094-2103, 2021. https://www-sciencedirect-com.am.e-information.ro/science/article/pii/S0960148121011897	1.227

12.	Paulescu E., Paulescu M., A Semi-Analytical Model for Separating Diffuse and Direct Solar Radiation Components, APPLIED SCIENCES-BASEL, Volume12, Issue24, Article Nr12759, 2022. https://www.mdpi.com/2076-3417/12/24/12759	0.414
13.	Paulescu E., Paulescu M., Minute-Scale Models for the Diffuse Fraction of Global Solar Radiation Balanced between Accuracy and Accessibility, APPLIED SCIENCES-BASEL, Volume13, Issue11, Article Number 6558, 2023. https://www.mdpi.com/2076-3417/13/11/6558	0.428
14.	Robert Blaga, Oana Mares, Eugenia Paulescu, Remus Boata, et all, Diffuse fraction as a tool for exploring the sensitivity of parametric clear-sky models to changing aerosol conditions, Solar Energy, Volume 277, 112731, 2024 https://www.sciencedirect.com/science/article/pii/S0038092X24004262	1.009
15.	Eugenia Paulescu, Lucas Velimirovici, Marius Paulescu, Clear sky solar irradiance models derived through interdependent parameterization, Renewable Energy, Volume 250, 123371, 2025 https://doi.org/10.1016/j.renene.2025.123371	1.321
16.	George Stirban, Eugenia Paulescu, Mathematical Assessment of Aerosol Impact on the Diffuse-to-Global Ratio of Solar UV Radiation, Mathematics, (2026) Volume 14, Issue 1, Nr. 50 https://www.mdpi.com/2227-7390/14/1/50	0.373
17.	Hategan, SM., Paulescu, E., Paulescu, M. Atmospheric aerosol effects on spectral mismatch and the resulting uncertainty in photovoltaic performance. Scientific Reports (2026). https://doi.org/10.1038/s41598-026-36144-7	1.031
18.	Lucas Velimirovici, Eugenia Paulescu, Marius Paulescu, Short-Term Solar Irradiance Forecasting Using Random Forest-Based Models with a Focus on Mountain Locations, Energies, (2026) Volume 19, Issue 3, Section A:Sustainable Energy, Special Issue The Future of Renewable Energy: 2nd Edition. https://doi.org/10.3390/en19030769	0.471
19.	Viviana Sirbu, Eugenia Paulescu, Parametric Clear-Sky Solar Irradiance Model with Improved Diffuse Flux Estimation, Energies, 19, 1842 (2026) https://doi.org/10.3390/en19081842	0.471
Punctaj total indicator 2.2		P = 13.718

Documente justificative: Copie în format hard, în format electronic sau link pe pagina web a revistei. **Precizări:**

- AIS_i – scorul de influență absolut al revistei respective (www.isiknowledge.com, secțiunea Journal Citation Reports); în cazul în care anul de publicare nu se regăsește în baza de date, se va alege valoarea corespunzătoare anului cel mai apropiat de cel în care a fost publicat articolul.
- Nu se iau în considerare articolele la care autorii sunt indicați în ordinea alfabetică a numelui și candidatul este prim-autor exclusiv datorită numelui acestuia și ordonării alfabetice.

I=8.005

P=13.718

Profesor:

I>4; P>4

3. Recunoașterea impactului activității

3.1. Citări în reviste științifice cu factor de impact care se regasesc in InCites Journal Citation Reports sau in carti in edituri recunoscute Web of Science. Nu se iau in considerare citările provenind din articole care au ca autor sau coautor candidatul.

Nr. publ. citată	Nr. publ. care citează	Referința bibliografică a publicației care citează (Autori, Titlul, Revista, Vol., anul, pag.inceput -pag.sfârșit)	C_i al publ. citate	n_i^{ef} al publ. citate	Punctaj $\frac{C_i}{n_i^{ef}}$
I.		<u>Eugenia Tulcan</u> , Victor Sofonea, Morphology of cluster formation in magnetic fluids, Journal of Magnetism and Magnetic Materials, 1999, Vol. 201, 238-241. DOI10.1016/S0304-8853(99)00094-3	5	2	2.5
	1.	Shimada, K; Miyazaki, T; Shibayama, A; et al., Extraction of magnetic particle clusters self-assembled by magnetic field, 2003, vol. 12, 297-303.			
	2.	Shimada, K; Shuchi, S; Kanno, H; et al., Magnetic cluster and its applicationns , 2005, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol. 289 , 9-12.			
	3.	Shimada, K; Shuchi, S; Kanno, H, Magnetic rubber having magnetic clusters composed of metal particles , 2005, JOURNAL OF INTELLIGENT MATERIAL SYSTEMS AND STRUCTURES, vol. 16, 15-20.			
	4.	Nakamura, Kazumasa; Okuyama, Kyoko; Takase, Tsugiko, Magnetic properties of magnetic glass-like carbon prepared from furan resin alloyed with magnetic fluid, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 425 Pages: 43-47 Published: MAR 1 2017			
	5.	Nakamura, K ; Suzuki, N ; Takase, T , Preparation of magnetic carbon nanofibers derived from bacterial cellulose alloyed with magnetic fluid, DIAMOND AND RELATED MATERIALS, Volume124, April 2022, 108938.			0.5
II.		<u>Eugenia Tulcan Paulescu</u> , Agneta Balint, Stefan Balint, The effect of the initial dopant distribution in the melt on the axial compositional uniformity of a thin doped crystal grown in strictly zero-gravity environment by Bridgman-Stockbarger method, Journal of Crystal Growth, 2003, Vol 247, 313-319. DOI:10.1016/S0022-0248(02)02055-9	3	3	1
	1.	Abidi, L; Saghir, MZ; Labrie, D, Use of an axial magnetic field to suppress convection in the solvent of Ge0.98Si0.02 grown by travelling solvent method, 2005, INTERNATIONAL JOURNAL OF MATERIALS & PRODUCT TECHNOLOGY, 2005, vol. 22, 2-19.			
	2.	Neculae A, Balint AM, Axial segregation in unsteady diffusion-dominated solidification in a finite ampoule, INTERNATIONAL JOURNAL OF MODERN PHYSICS B, 2006, vol. 20, 2551-2560.			
	3.	Ben Sassi, Mokhtar; Kaddeche, Slim; Lappa, Marcello; et al On the effect of thermodiffusion on solute segregation during the growth of semiconductor materials by the vertical Bridgman method JOURNAL OF CRYSTAL GROWTH Volume: 458 Pages: 154-165 Published: JAN 15 2017			
III.		<u>Paulescu M, Tulcan-Paulescu E</u> . Assessments on the multijunction solar cells photoelectric efficiency related to the semiconductor band gap and outdoor conditions, Modern Physics Letters B 19 (2005), 447-457. DOI:10.1142/S0217984905008414	3	2	1.5
	1.	Fara S, Sterian P, Fara L. Influence of the optical parameters of the quantum well solar cells upon conversion efficiency, Journal of Electronics and Advanced Materials 12 (2010), 129-134.			

	2.	Fara S, Sterian P, Fara L. New Results in Optical Modelling of Quantum Well Solar Cells, International Journal of Photoenergy, (2012), Article Number: 810801.			
	3	Nouri, L., Ihfa, F.Z., Oubella, Y.A. et al. Single-diode multi-junction solar cell models five-parameter estimation method. Indian J Phys 98, 629–637 (2024). https://doi.org/10.1007/s12648-023-02823-8			0.5
IV.		Paulescu M, Fara L, Tulcan-Paulescu E. Models for obtaining daily global solar irradiation from air temperature data, Atmospheric Research 79 (2006), 227-240. DOI:10.1016/j.atmosres.2005.06.001	13	3	4.333
	1	Wu G, Liu Y, Wang T-J. Methods and strategy for modeling daily global solar radiation with measured meteorological data - A case study in Nanchang station, China, Energy Conversion and Management 48 (2007), 2447-2452.			
	2	Togrul I Tuerk. Estimation of Solar Radiation from Angstroms Coefficients by using Geographical and Meteorological Data in Bishkek, Kyrgyzstan, Journal of Thermal Science and Technology 29 (2009), 99-108.			
	3	Bansouleh B. Farhadi, Sharifi M A, Van Keulen H. Sensitivity analysis of performance of crop growth simulation models to daily solar radiation estimation methods in Iran, Energy Conversion and Management 50 (2009), 2826-2836.			
	4	Mellit A, Eleuch H, Benghanem M. An adaptive model for predicting of global, direct and diffuse hourly solar irradiance, Energy Conversion and Management 51 (2010), 771-782.			
	5	Togrul I Turk, Gurbuz H. A Statistical Approach on the Estimation of Solar Radiation in Bishkek, Kyrgyzstan Using Geographical and Meteorological Data, Energy Sources Part A-Recovery Utilization and Environmental Effects 33 (2011), 423-433.			
	6	Liu M, Bardossy A, Li J. GIS-based modelling of topography-induced solar radiation variability in complex terrain for data sparse region, International Journal of geographical Information Science 26 (2012), 1281-1308.			
	7	Chen Ji-Long, Xiao Bei-Bei, Chen Chun-Di. Estimation of monthly-mean global solar radiation using MODIS atmospheric product over China, Journal of Atmospheric and Solar-terrestrial 110 (2014), 63-80.			
	8	St Boata, Remus; Paulescu, Marius TAKAGI-SUGENO ALGORITHM FOR GLOBAL SOLAR IRRADIATION USING AIR TEMPERATURE DATA ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL Volume: 13 Issue: 12 Pages: 3045-3051 Published: DEC 2014			
	9	Boata, R.; Pop, N. ESTIMATION OF GLOBAL SOLAR IRRADIATION BY USING TAKAGI-SUGENO FUZZY SYSTEMS ROMANIAN JOURNAL OF PHYSICS Volume: 60 Issue: 3-4 Pages: 593-602 Published: 2015			
	10	Adeala, Adeyemi A.; Huan, Zhongjie; Enweremadu, Christopher C. EVALUATION OF GLOBAL SOLAR RADIATION USING MULTIPLE WEATHER PARAMETERS AS PREDICTORS FOR SOUTH AFRICA PROVINCES, THERMAL SCIENCE Vol. 19 Suppl: 2 Pages: S495-S509 Published: 2015			
	11	Chen, Ji-Long; He, Lei; Chen, Qiao; et al., Study of monthly mean daily diffuse and direct beam radiation estimation with MODIS atmospheric product, RENEWABLE ENERGY Volume: 132 Pages: 221-232 Published: MAR 2019			
	12	Fara, L ; Diaconu, A ; Craciunescu, D ; Fara, S , Forecasting of Energy Production for Photovoltaic Systems Based on ARIMA and ANN Advanced Models, INTERNATIONAL JOURNAL OF PHOTOENERGY, Volume2021, Article Number6777488, Published:2021.			0.333
	13	Barbon, A ; Ayuso, PF ; Bayon, L ; Silva, CA , A comparative study between racking systems for photovoltaic power systems, RENEWABLE ENERGY, Volume180, Page424-437 Published:2021.			0.333

V.	Paulescu M, <u>Tulcan-Paulescu E</u> , Neculae A, Gravila P. Internal reflection influence on the multiple quantum well solar cell efficiency, <i>Journal of Optoelectronics and Advanced Materials</i> 10 (2008), 2441-2444.	1	4	0.25
1	Sterian P, Fara S, Fara L. A Study of the Optical Properties of Quantum Well Solar Cells aimed at Optimizing their Configuration, <i>University Politehnica of Bucharest, Scientific Bulletin-Series A-Applied Mathematics and Physics</i> 72 (2010), 9-20.			
VI.	<u>Tulcan-Paulescu E</u> , Paulescu M. Fuzzy modeling of solar irradiation using air temperature data, <i>Theoretical and Applied Climatology</i> 91 (2008), 181-192. DOI:10.1007/s00704-007-0304-6	17	2	8.5
1	Mellit, A.; Pavan, A. Massi; Benghanem, M. Least squares support vector machine for short-term prediction of meteorological time serie THEORETICAL AND APPLIED CLIMATOLOGY Volume: 111 Issue: 1-2 Pages: 297-307 Published: JAN 2013			0.5
2	St Boata R, Gravila Paul. Functional fuzzy approach for forecasting daily global solar irradiation, <i>Atmospheric Research</i> 112 (2012), 79-88.			
3	Li H. S, Ma W B, Bu X B. A Multiple Linear Regression Model for Estimating Global Solar Radiation in Guangzhou, China, <i>Energy Sources Part A-Recovery Utilization and Environmental Effects</i> 35 (2013), 321-327.			
4	Pan I, Pandey D S, Das S. Global solar irradiation prediction using a multi-gene genetic programming approach, <i>Journal of Renewable and Sustainable Energy</i> 5 (2013), Article Number: 063129.			
5	Benghanem M, Mellit A. A simplified calibrated model for estimating daily global solar radiation in Madinah, Saudi Arabia, <i>Theoretical and Applied Climatology</i> 115 (2014), 197-205.			
6	Rizwan M, Jamil M, Kirmani S. Fuzzy logic based modeling and estimation of global solar energy using meteorological parameters, <i>Energy</i> 70 (2014), 685-691.			
7	St Boata, Remus; Paulescu, Marius , TAKAGI-SUGENO ALGORITHM FOR GLOBAL SOLAR IRRADIATION USING AIR TEMPERATURE DATA, <i>ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL</i> Volume: 13 Issue: 12 Pages: 3045-3051 Published: DEC 2014			
8	Boata R, Pop N. Estimation of global solar irradiation by using Takagi-Sugeno fuzzy systems. <i>Romanian Journal of Physics</i> 60 (2015) 593-602.			
9	De Souza K, Andrews R. Models for daily global solar radiation for the Caribbean island of Trinidad. <i>Journal of Renewable and Sustainable Energy</i> 7 (2015) Article Number: 013132.			
10	Shamshirband, Shahaboddin; Mohammadi, Kasra; Yee, Por Lip; et al. A comparative evaluation for identifying the suitability of extreme learning machine to predict horizontal global solar radiation. <i>RENEWABLE & SUSTAINABLE ENERGY REVIEWS</i> 52 (2015) 1031-1042			
11	Shamshirband, Shahaboddin; Mohammadi, Kasra; Piri, Jamshid; et al. Hybrid auto-regressive neural network model for estimating global solar radiation in Bandar Abbas, Iran <i>ENVIRONMENTAL EARTH SCIENCES</i> Volume: 75 Issue: 2 Published: JAN 2016			
12	Shamshirband, Shahaboddin; Mohammadi, Kasra; Tong, Chong Wen; et al. A hybrid SVM-FFA method for prediction of monthly mean global solar radiation, <i>THEORETICAL AND APPLIED CLIMATOLOGY</i> Volume: 125 Issue: 1-2 Pages: 53-65 Published: JUL 2016			
13	Paulescu, Marius; Brabec, Marek; Boata, Remus; Badescu, Viorel, Structured, physically inspired (gray box) models versus black box modeling for forecasting the output power of photovoltaic plants <i>ENERGY</i> Volume: 121 Pages: 792-802 Published: FEB 15 2017			
14	Baser, Furkan; Demirhan, Haydar, A fuzzy regression with support vector machine approach to the estimation of horizontal global solar radiation, <i>ENERGY</i> Volume: 123 Pages: 229-240 Published: MAR 15 2017			
15	Perveen, Gulnar; Rizwan, M.; Goel, Nidhi, Intelligent model for solar energy forecasting and its implementation for solar photovoltaic applications <i>JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY</i> Volume: 10 Issue: 6 Article Number: 063702 Published: NOV 2018			

	16	Brabec, Marek; Dumitrescu, Alexandru; Paulescu, Marius; et al., A new perspective on the sunshine duration variability, THEORETICAL AND APPLIED CLIMATOLOGY Volume: 139 Issue: 3-4 Pages: 1219-1230 Published: FEB 2020			
	17	Noman, A.M.; Haidar, Z.A.; Aljumah, A.S.; Almutairi, S.Z.; Alqahtani, M.H. Forecasting the Distortion in Solar Radiation during Midday Hours by Analyzing Solar Radiation during Early Morning Hours. Appl. Sci. 2023, 13, 6049. https://doi.org/10.3390/app13106049			0.5
VII.		Paulescu M, Gravila P, Tulcan-Paulescu E. Fuzzy logic algorithms for atmospheric transmittances of use in solar energy estimation, Energy Conversion and Management 49 (2008), 3691-3697. DOI:10.1016/j.enconman.2008.06.025	14	3	4.666
	1	Rizwan M, Jamil M, Kothari D P. Generalized Neural Network Approach for Global Solar Energy Estimation in India, IEEE Transaction on Sustainable Energy 3 (2012), 576-584.			0.333
	2	St Boata R, Gravila P. Functional fuzzy approach for forecasting daily global solar irradiation, Atmospheric Research 112 (2012), 79-88.			0.333
	3	Pandey P K, Soupir M L. A new method to estimate average hourly global solar radiation on the horizontal surface, Atmospheric Research 114 (2012), 83-90.			0.333
	4	By: St Boata, Remus; Paulescu, Marius TAKAGI-SUGENO ALGORITHM FOR GLOBAL SOLAR IRRADIATION USING AIR TEMPERATURE DATA ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL Volume: 13 Issue: 12 Pages: 3045-3051 Published: DEC 2014			0.333
	5	Rizwan M, Jamil M, Kirmani S. Fuzzy logic based modeling and estimation of global solar energy using meteorological parameters, Energy 70 (2014), 685-691.			0.333
	6	Suganthi, L.; Iniyan, S.; Samuel, Anand A. Applications of fuzzy logic in renewable energy systems - A review RENEWABLE & SUSTAINABLE ENERGY REVIEWS Volume: 48 Pages: 585-607 Published: AUG 2015			0.333
	7	Zhao Jing; Xiao Shaorong <u>Improve extinction coefficient accuracy with optical compensation</u> OPTIK Volume: 127 Issue: 20 Pages: 8394-8401 Published: 2016			0.333
	8	Boata, R. ,FUZZY LOGIC PROCEDURE FOR COMPUTING GLOBAL SOLAR IRRADIATION ROMANIAN JOURNAL OF PHYSICS Volume: 61 Issue: 7-8 Pages: 1389-1394 Published: 2016			0.333
	9	Kazem, Hussein A.; Yousif, Jabar H. , Comparison of prediction methods of photovoltaic power system production using a measured dataset ENERGY CONVERSION AND MANAGEMENT Volume: 148 Pages: 1070-1081 Published: SEP 15 2017			0.333
	10	Al-Waeli, Ali H. A.; Sopian, K.; Kazem, Hussein A.; et al., Comparison of prediction methods of PV/T nanofluid and nano-PCM system using a measured dataset and artificial neural network , SOLAR ENERGY Volume: 162 Pages: 378-396 Published: MAR 1 2018			0.333
	11	Mehmood, Muhammad Uzair; Chun, Daye; Zeeshan; et al., A review of the applications of artificial intelligence and big data to buildings for energy-efficiency and a comfortable indoor living environment, ENERGY AND BUILDINGS Volume: 202 Article Number: UNSP 109383 Published: NOV 1 2019			0.333
	12	Uckan, I ; Khudhur, KM , Improving of global solar radiation forecast by comparing other meteorological parameter models with sunshine duration models, ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, DOI10.1007/s11356-022-18781-3, Early AccessJAN 2022			0.333
	13	Zhang, S; Liu, Y and Luo, Q, Research on deviation theory of atmospheric transmittance and solution for deviation extreme value, URBAN CLIMATE 42, Mar 2022			0.333

	14	Maqekeni, S ; Obileke, K ; Ndiweni, O ; Mukumba P., Application of Fuzzy Logic Techniques in Solar Energy Systems: A Review, APPLIED SYSTEM INNOVATION 2025, Vol 8, Issue 5, 144, DOI10.3390/asi8050144			0.333
VIII.		Paulescu, Marius; Tulcan-Paulescu, Eugenia; Gravila, Paul A HYBRID MODEL FOR QUANTUM WELL SOLAR CELLS INTERNATIONAL JOURNAL OF MODERN PHYSICS B Volume: 24 Issue: 14 Pages: 2121-2133 Published: JUN 10 2010, DOI:10.1142/S0217979210055615	2	3	0.666
	1	Gao, Mengyu; Zhan, Xinghua; Chen, Fei; et al. , Fabricating omnidirectional low-reflection films by nano-imprinting method for boosting solar power generation of silicon-based solar cells MODERN PHYSICS LETTERS B Volume: 31 Issue: 19-21 Special Issue: SI Article Number: 1740002 Published: JUL 30 2017			0.333
	2	Pereyra, P, The Transfer Matrix Method and the Theory of Finite Periodic Systems. From Heterostructures to Superlattices, Dec 2021 (Early Access) PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS			0.333
IX.		Paulescu, Marius; Dughir, Ciprian; Tulcan-Paulescu, Eugenia; Lascu Mihaela, Gravila Paul, Jurca Traian; SOLAR RADIATION MODELING AND MEASUREMENTS IN TIMISOARA, ROMANIA: DATA AND MODEL QUALITY, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, 2010, Volume: 9, Issue: 8, Pages: 1089-1095, DOI:10.30638/eemj.2010.141	9	5.5	1.629
	1	Jantschi, L ; Bolboaca, SD ; Sestras, RE, A simulation study for the distribution law of relative moments of evolution, COMPLEXITY, Volume17, Issue6, Page52-63, PublishedJUL-AUG 2012			0.181
	2	Grec, A ; Ardelean, D ; Rosu, A, RENEWABLE ENERGY - A SUSTAINABLE AND CLEANER RESOURCE. CASE STUDY FOR ROMANIA, Volume11, Issue9, Page1595-1602, PublishedSEP 2012			0.181
	3	Lazar, IM ; Ifrim, IL ; Nicuta, D ; Stamate, M, EVALUATION OF GROWTH PARAMETERS AND SPECTROSCOPIC INDEXES OF CANOLA FROM SEEDS SUBJECTED TO NON-IONIZING RADIATION STRESS, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, Volume11, Issue12, Page2211-2221, PublishedDEC 2012			0.181
	4	Calinoiu, D ; Ionel, I ; Trif-Tordai, G, Analysis of optical properties of aerosols by means of photometry, OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, Volume7, Issue9-10, Page742-746, PublishedSEP-OCT 2013			0.181
	5	Paulescu, M ; Badescu, V ; Dughir, C, New procedure and field-tests to assess photovoltaic module performance, ENERGY, Volume70, Page49-57, PublishedJUN 1 2014			0.181
	6	St Boata, R ; Paulescu, M, TAKAGI-SUGENO ALGORITHM FOR GLOBAL SOLAR IRRADIATION USING AIR TEMPERATURE DATA, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, Volume13, Issue12, Page3045-3051, PublishedDEC 2014			0.181
	7	Boata, R; Pop, N, ESTIMATION OF GLOBAL SOLAR IRRADIATION BY USING TAKAGI-SUGENO FUZZY SYSTEMS, ROMANIAN JOURNAL OF PHYSICS, Volume60, Issue3-4, Page593-602, Published2015			0.181
	8	Luminosu, I ; De Sabata, A ; Toader, D ; Margineanu, D ; Ilie, S, CONCEPTION OF A MASTER DEGREE PROGRAM IN SOLAR ENERGY: INFRASTRUCTURE, STRUCTURE AND RESULTS, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, Volume18, Issue2, Page291-300, PublishedFEB 2019			0.181
	9	Dumitrașcu, M., Grigorescu, I., Vrinceanu, A. et al. An indicator-based approach to assess and compare the environmental and socio-economic consequences of photovoltaic parks in Romania's development regions. Environ Dev Sustain (2024). https://doi.org/10.1007/s10668-024-04585-7			0.181

X	EUGENIA TULCAN-PAULESCU, DAN COMĂNESCU, MARIUS PAULESCU, ON QUANTUM HYDRODYNAMIC MODELS FOR ELECTRONIC TRANSPORT IN NANOSCALE SEMICONDUCTOR DEVICES, Vol 24, Issue 4-5(2010), 401-409.			1	3	0.333
	1	Zhang, L., Yang, Y., Feng, J. et al. The propagation of nonlinear waves in field-effect transistors with quantum effects. J. Korean Phys. Soc. (2024). https://doi.org/10.1007/s40042-024-01129-0				0.333

XI.	Paulescu M, Stefu N, Tulcan-Paulescu E, Caliniu D, Neculae A, Gravila P. UV solar irradiance from broadband radiation and other meteorological data, Atmospheric Research 96 (2010), 141-148. DOI:10.1016/j.atmosres.2009.12.007			25	5.5	4.545
	1	Hu B, Wang Y, Si L, Guang R. The characteristics of ultraviolet radiation in arid and semi-arid regions of China, Journal of Atmospheric Chemistry 67 (2010), 141-155.				0.181
	2	Hanaor D, Michelazzi M, Chenu J. The effects of firing conditions on the properties of electrophoretically deposited titanium dioxide films on graphite substrates, Journal of the European Ceramic Society 31 (2011), 2877-2885.				0.181
	3	Malinovic-Milicevic S, Mihailovic Dragutin T. The use of NEOPLANTA model for evaluating the UV index in the Vojvodina region (Serbia), Atmospheric Research 101 (2011), 621-630.				0.181
	4	Nisulescu Ghe Catalin, Ionel I, Malan B. Remote SO2 Monitoring with UV Cameras for Stack Emissions, Revista de Chimie 63 (2012), 940-944.				0.181
	5	Petkov B, Vitale V, Groebner J. Short-term variations in surface UV-B irradiance and total ozone column at Ny-angstrom lesund during the QAARC campaign, Atmospheric Research 108 (2012), 9-18.				0.181
	6	Mihailovic Dragutin T, Malinovic-Milicevic S, Arsenic I. Kolmogorov Complexity Spectrum for use in Analysis of UV-B Radiation Time Series, Modern Physics Letters B 27 (2013), Article Number: 1350194.				0.181
	7	Wang L, Gong W, Ma Y. Analysis of ultraviolet radiation in Central China from observation and estimation, Energy 59 (2013), 764-774.				0.181
	8	Hu B, Wang Y S. Ultraviolet radiation in the background region over Northeast China, Journal of Atmospheric Chemistry 70 (2013), 283-296.				0.181
	9	Wang L, Gong W, Li J. Empirical studies of cloud effects on ultraviolet radiation in Central China, International Journal of Climatology 34 (2014), 2218-2228.				0.181
	10	Lefevre M, Blanc P, Espinar B. The HelioClim-1 Database of Daily Solar Radiation at Earth Surface: An Example of the Benefits of GEOSS Data, Journal of Selected Topics in Applied Earth Observations and Remote Sensing 7 (2014), 1745-1753.				0.181

11	Hu B, Wang Y. Variation characteristics of ultraviolet radiation over the North China plain, <i>Advances in Atmospheric Sciences</i> 31 (2014), 110-117.	0.181
12	Wang L, Gong W, Luo M, Wang W, Hu B, Zhang M, Comparison of different UV models for cloud effect study. <i>Energy</i> 80 (2015) 695–705	0.181
13	Wei Gong, Ming Zhang , Lunche Wang, Bo Hu, Yingying Ma, Measurement and estimation of ultraviolet radiation in Pearl River Delta, China, <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> 123 (2015) 63–70.	0.181
14	Jacovides C P, Tymvios F S, Boland J. Artificial Neural Network models for estimating daily solar global UV, PAR and broadband radiant fluxes in an eastern Mediterranean site, <i>Atmospheric Research</i> 152 (2015), 138-145.	0.181
15	S. Malinovic-Milicevic, D. T. Mihailovic, M. M. Radovanovic, Reconstruction of the erythral UV radiation data in Novi Sad (Serbia) using the NEOPLANTA parametric model, <i>Theoretical and Applied</i> , Volume: 121 Issue: 1-2 Pages: 131-138 Published: JUL 2015	0.181
16	Liu, H.; Hu, B.; Zhang, L.; et al. <u>Spatiotemporal characteristics of ultraviolet radiation in recent 54years from measurements and reconstructions over the Tibetan Plateau</u> <i>JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES</i> Volume: 121 Issue: 13 Pages: 7673-7690 Published: JUL 16 2016	0.181
17	Aculinin, Alexandr; Brogniez, Colette; Bengulescu, Marc; et al. , Assessment of Several Empirical Relationships for Deriving Daily Means of UV-A Irradiance from Meteosat-Based Estimates of the Total Irradiance <i>REMOTE SENSING</i> Volume: 8 Issue: 7 Article Number: 537 Published: JUL 2016	0.181
18	Choosri, P.; Janjai, S.; Nunez, M.; et al. , Development of a method for mapping monthly average hourly diffuse erythral ultraviolet radiation <i>JOURNAL OF ATMOSPHERIC AND SOLAR-TERRESTRIAL PHYSICS</i> Volume: 161 Pages: 19-27 Published: AUG 2017	0.181
19	Slavica Malinovic-Milicevic, Yaroslav Vyklyuk, Milan M. Radovanovic, Marko D. Petrovic, Long-term erythral ultraviolet radiation in Novi Sad (Serbia) reconstructed by neural network modeling, February 2018 <i>International Journal of Climatology</i> DOI: 10.1002/joc.5499	0.181
20	Gueymard, Christian A., The SMARTS spectral irradiance model after 25 years: New developments and validation of reference spectra, <i>SOLAR ENERGY</i> Volume: 187 Pages: 233-253 Published: JUL 15 2019	0.181
21	Zhang, Jinqiang; Xia, Xiangao; Wu, Xue, First in situ UV profile across the UTLS accompanied by ozone measurement over the Tibetan Plateau, <i>JOURNAL OF ENVIRONMENTAL SCIENCES</i> Volume: 98 Pages: 71-76 Published: DEC 2020	0.181
22	Garcia-Rodriguez, S; Garcia, I; Garcia-Rodriguez, A ; Diez-Mediavilla, M ; Alonso-Tristan, C; Solar Ultraviolet Irradiance Characterization under All Sky Conditions in Burgos, Spain, <i>APPLIED SCIENCES-BASEL</i> , Volume12, Issue20, Article Number10407, DOI10.3390/app122010407, PublishedOCT 2022	0.181
23	Reconstruction and variability of high daily erythral ultraviolet doses and relationship with total ozone, cloud cover, and albedo in Novi Sad (Serbia) Malinovic-Milicevic, S ; Radovanovic, MM; Mijatovic, Z ; Petrovic, MD; <i>INTERNATIONAL JOURNAL OF CLIMATOLOGY</i> Volume42, Issue16, Page9088-9100, DOI10.1002/joc.7803, PublishedDEC 30 2022	0.181
24	Altitude and ground brightness explain interpopulation variation in dorsal coloration in a lizard, Cuervo, JJ ; Durán-García, MC ; Belliure, J, <i>CURRENT ZOOLOGY</i> , OCT 2024	0.181

	25	Identifying the Signature of the Solar UV Radiation Spectrum, Codrean, AF ; Bunoiu, OM ; Paulescu, M , ATMOSPHERE 2025, Volume16 Issue4, Article Number 427			0.181
XII.		Paulescu M, <u>Tulcan-Paulescu E</u> , Stefu N. A temperature-based model for global solar irradiance and its application to estimate daily irradiation values, International Journal of Energy Research 35 (2011), 520-529, DOI:10.1002/er.1709	16	3	5.333
	1	Malan B, Vetres I, Ionel I. Timisoara Aerosols Investigated with Remote Sensing Systems, Revista de Chimie 64 (2013) 894-898.			0.333
	2	Nemes C. A clear sky irradiation assessment using the European Solar Radiation Atlas model and Shuttle Radar Topography Mission database: A case study for Romanian territory, Journal of Renewable and Sustainable Energy 5 (2013), Article Number: 041807.			0.333
	3	Nemes C, Istrate M. A Clear Sky Irradiation Assessment using the ERSAT Model and SRTM Database, Environmental Engineering and Management Journal 12 (2013), 1271-1279.			0.333
	4	St Boata, Remus; Paulescu, Marius, TAKAGI-SUGENO ALGORITHM FOR GLOBAL SOLAR IRRADIATION USING AIR TEMPERATURE DATA ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL Volume: 13 Issue: 12 Pages: 3045-3051 Published: DEC 2014			0.333
	5	Dos S, Cicero M, De Souza J L, Ferreira Jr R Araujo. On modeling global solar irradiation using air temperature for Alagoas State, Northeastern Brazil, Energy 71 (2014), 388-398.			0.333
	6	Sahin M, Kaya Y, Uyar M. Application of extreme learning machine for estimating solar radiation from satellite data, International Journal of Energy Research 88 (2014) 205-212.			0.333
	7	Deo R C, Sahin M. Application of the Artificial Neural Network model for prediction of monthly Standardized Precipitation and Evapotranspiration Index using hydrometeorological parameters and climate indices in eastern Australia. Atmospheric Research 161 (2015) 65-81			0.333
	8	Deo R C, Sahin M. Application of the extreme learning machine algorithm for the prediction of monthly Effective Drought Index in eastern Australia, Atmospheric Research 153 (2015), 512-525.			0.333
	9	Deo, Ravinesh C.; Sahin, Mehmet, An extreme learning machine model for the simulation of monthly mean streamflow water level in eastern Queensland ENVIRONMENTAL MONITORING AND ASSESSMENT Volume: 188 Issue: 2 Article Number: 90 Published: FEB 2016			0.333
	10	Brembilla, Christian; Ostin, Ronny; Soleimani-Mohseni, Mohsen; et al., Paradoxes in understanding the Efficiency Factors of Space Heating, ENERGY EFFICIENCY Volume: 12 Issue: 3 Pages: 777-786 Published: MAR 2019			0.333
	11	Dikshit, Abhirup; Pradhan, Biswajeet; Alamri, Abdullah M., Short-Term Spatio-Temporal Drought Forecasting Using Random Forests Model at New South Wales, Australia , APPLIED SCIENCES-BASEL Volume: 10 Issue: 12 Article Number: 4254 Published: JUN 2020			0.333
	12	Dikshit, Abhirup; Pradhan, Biswajeet; Alamri, Abdullah M., Temporal Hydrological Drought Index Forecasting for New South Wales, Australia Using Machine Learning Approaches , ATMOSPHERE Volume: 11 Issue: 6 Article Number: 585 Published: JUN 2020			0.333
	13	Ben Ammar, M ; Ben Ammar, R ; Oualha, A , Photovoltaic Power Prediction for Solar Car Park Lighting Office Energy Management, JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME, Volume143, Issue3, Article Number031303, 2021			0.333

	14	Bouaziz, M ; Medhioub, E Csaplovise, E, A machine learning model for drought tracking and forecasting using remote precipitation data and a standardized precipitation index from arid regions, JOURNAL OF ARID ENVIRONMENTS, Volume189, Article Number104478, 2021	0.333
	15	Maposa, D.; Masache, A.; Mdlongwa, P. A Quantile Functions-Based Investigation on the Characteristics of Southern African Solar Irradiation Data. Math. Comput. Appl. 2023, 28, 86. https://doi.org/10.3390/mca28040086	0.333
	16	SPI-gamma random forest modelling for meteorological drought characterization and prediction in the Bengal Delta, Indo-Bangladesh region, Sarkar, B; Mohinuddin, S ; Islam, A ; Islam, AMT ; Saha, UD ; Sengupta, S; Pal, SC ; Chu, HJ ; Huang, JC, THEORETICAL AND APPLIED CLIMATOLOGY, Volume156, Issue1, Article Number 51, JAN 2025	0.333

XIII	<u>Eugenia Paulescu, Nicoleta Stefu, Paul Gravila, Remus Boata, Nicolina Pop, Marius Paulescu, Procedure of embedding biological action functions into the atmospheric, THEORETICAL AND APPLIED CLIMATOLOGY 2012, Vol. 109, Issue 3-4, Page 323-332. DOI:10.1007/s00704-011-0581-y</u>		1	5.5	0.181
	1	Codrean, AF; Bunoiiu, OM and Paulescu, M, Identifying the Signature of the Solar UV Radiation Spectrum, ATMOSPHERE 2025, Vol 16 Issue 4, 427, DOI: 10.3390/atmos16040427			0.181

XIV	<u>T. Jurca, E. Tulcan-Paulescu, C. Dughir, M. Lascu, P. Gravila, A. De Sabata, I. Luminosu, C. De Sabata, M. Paulescu; Global Solar Irradiation Modeling and Measurements in Timisoara. AIP Conf. Proc. 3 October 2011; 1387 (1): 253–258. https://doi.org/10.1063/1.3647083</u>		4	7	0.568
	1	Hwang, Y.-S.; Schlüter, S.; Lee, J.-J.; Um, J.-S. Evaluating the Correlation between Thermal Signatures of UAV Video Stream versus Photomosaic for Urban Rooftop Solar Panels. Remote Sens. 2021, 13, 4770. https://doi.org/10.3390/rs13234770			0.142
	2	Young-Seok Hwang, Jung-Sup Um, and Jun-Hyun Kim, Comparative Evaluation of Tracking Capability of Spatial Patterns on Defective Urban Solar Panels between Unmanned Aerial Vehicle Video Stream and Photomosaics, Sens. Mater., Vol. 34, No. 12, 2022, p. 4755-4767.			0.142
	3	Hwang, Y.-S.; Schlüter, S.; Park, S.-I.; Um, J.-S. Comparative Evaluation for Tracking the Capability of Solar Cell Malfunction Caused by Soil Debris between UAV Video versus Photo-Mosaic. Remote Sens. 2022, 14, 1220. https://doi.org/10.3390/rs14051220			0.142
	4	Honglei Zhu, Yanwei Huang, Zhaokang An, Han Zhang, Yongyue Han, Zihui Zhao, Feifan Li, Chan Zhang, Cuicui Hou, Assessing radiometric calibration methods for multispectral UAV imagery and the influence of illumination, flight altitude and flight time on reflectance, vegetation index and inversion of winter wheat AGB and LAI, Computers and Electronics in Agriculture, Volume 219, 2024, 108821			0.142

XV.	Calinoiu D, Paulescu M, Ionel I, Stefu N, Pop N, Boata R, Pacurar A, Gravila P, Paulescu E, Trif-Tordai G. Influence of aerosols pollution on the amount of collectable solar energy, Energy Conversion and Management 70 (2013), 76-82, DOI:10.1016/j.enconman.2013.02.012		25	7.5	3.325
	1	Ahmadi M H, Mohammadi A H, Dehghani S. Evaluation of the maximized power of a regenerative endoreversible Stirling cycle using the thermodynamic analysis, Energy Conversion and Management 76 (2013), 561-570.			0.133
	2	Mao Q, Shuai Y, Yuan Y. Study on radiation flux of the receiver with a parabolic solar concentrator system, Energy Conversion and Management 84 (2014), 1-6.			0.133
	3	Alonso J, Batlles F J, Villarroel C. Determination of the sun area in sky camera images using radiometric data, Energy Conversion and Management 78 (2014), 24-31.			0.133
	4	Santos-Martin, David; Lemon, Scott. SoL - A PV generation model for grid integration analysis in distribution networks. SOLAR ENERGY 120 (2015) 549-564			0.133
	5	Liu J, Fang W, Zhang X et al. An improved photovoltaic power forecasting model with the assistance of aerosol data index. IEEE Transaction on Sustainable Energy 6 (2015) 434-442.			0.133
	6	Gueymard CA, Ruiz-Arias JA. Validation of direct normal irradiance predictions under arid conditions: A review of radiative models and their turbidity-dependent Performance. Renewable and Sustainable Energy Reviews 45 (2015) 379-396.			0.133
	7	Floutsi, A. A.; Korras-Carraca, M. B.; Matsoukas, C.; et al. , Climatology and trends of aerosol optical depth over the Mediterranean basin during the last 12 years (2002-2014) based on Collection 006 MODIS-Aqua data, SCIENCE OF THE TOTAL ENVIRONMENT Volume: 551 Pages: 292-303 Published: MAY 1 2016			0.133
	8	Nobre, Andre M.; Karthik, Shravan; Liu, Haohui; et al., On the impact of haze on the yield of photovoltaic systems in Singapore , RENEWABLE ENERGY Volume: 89 Pages: 389-400 Published: APR 2016			0.133
	9	Rieger, Daniel; Steiner, Andrea; Bachmann, Vanessa; et al., Impact of the 4 April 2014 Saharan dust outbreak on the photovoltaic power generation in Germany, ATMOSPHERIC CHEMISTRY AND PHYSICS Volume: 17 Issue: 21 Pages: 13391-13415 Published: NOV 10 2017			0.133
	10	Calinoiu, D. G.; Trif-Tordai, G.; Ionel, I.; et al. SUN PHOTOMETER - REMOTE SENSING FOR AEROSOL ASSESSMENT JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY Volume: 19 Issue: 2 Pages: 462-470 Published: 2018			0.133
	11	Gelsor, Nuozhen; Gelsor, Norsang; Wangmo, Tsoja; et al., Solar energy on the Tibetan Plateau: Atmospheric influences, SOLAR ENERGY Volume: 173 Pages: 984-992 Published: OCT 2018			0.133
	12	Wang Fuqiang; Wang Hao; Gong Dayang; et al. Radiative transfer analysis of semitransparent medium with particles having non-uniform size distribution by differential-integration method INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER Volume: 130 Pages: 342-355 Published: MAR 2019			0.133
	13	Gomez-Amo, J. L.; Freile-Aranda, M. D.; Camarasa, J.; et al. Empirical estimates of the radiative impact of an unusually extreme dust and wildfire episode on the performance of a photovoltaic plant in Western Mediterranean, APPLIED ENERGY Volume: 235 Pages: 1226-1234 Published: FEB 1 2019			0.133

	14	Blaga, Robert, The impact of temporal smoothing on the accuracy of separation models, SOLAR ENERGY Volume: 191 Pages: 371-381 Published: OCT 2019	0.133
	15	Del Hoyo, Mirko; Rondanelli, Roberto; Escobar, Rodrigo, Significant decrease of photovoltaic power production by aerosols. The case of Santiago de Chile, RENEWABLE ENERGY Volume: 148 Pages: 1137-1149 Published: APR 2020	0.133
	16	Sarafraz, M. M.; Tran, N. N.; Pourali, N.; et al., Thermodynamic potential of a novel plasma-assisted sustainable process for co-production of ammonia and hydrogen with liquid metals ENERGY CONVERSION AND MANAGEMENT Volume: 210 Article Number: 112709 Published: APR 15 2020	0.133
	17	Wu, Qiuxuan; Jiang, Yongmei; Shi, Ting; et al., Quantifying Analysis of the Impact of Haze on Photovoltaic Power Generation , IEEE ACCESS Volume: 8 Pages: 215977-215986 Published: 2020	0.133
	18	Son, Junghoon; Jeong, Sujong; Park, Hayoung; et al., The effect of particulate matter on solar photovoltaic power generation over the Republic of Korea, ENVIRONMENTAL RESEARCH LETTERS Volume: 15 Issue: 8 Article Number: 084004 Published: AUG 2020	0.133
	19	Ferrari, Michele; Cirisano, Francesca, High transmittance and highly amphiphobic coatings for environmental protection of solar panels, ADVANCES IN COLLOID AND INTERFACE SCIENCE Volume: 286 Article Number: 102309 Published: DEC 2020	0.133
	20	Ruiz-Arias JA, Aerosol transmittance for clear-sky solar irradiance models: Review and validation of an accurate universal parameterization, RENEWABLE & SUSTAINABLE ENERGY REVIEWS, Volume145, Article Number111061, 2021	0.133
	21	Liu, RH ; Wei, JC ; Sun, GP ; Muyeen, SM; Lin, SF ; Li, F A short-term probabilistic photovoltaic power prediction method based on feature selection and improved LSTM neural network, ELECTRIC POWER SYSTEMS RESEARCH 210, Sep 2022	0.133
	22	Ruiz-Arias, JA, Spectral integration of clear-sky atmospheric transmittance: Review and worldwide performance, RENEWABLE & SUSTAINABLE ENERGY REVIEWS 161, Jun 2022	0.133
	23	Xuquan Wang, Fei Wang, Baoqiang Xu, Bin Yang, Effect of Bi ³⁺ incorporation on up/downconversion luminescence and photocatalytic activity of Gd ₂ O ₃ , Journal of Molecular Structure, Volume 1273,2023, 134349	0.133
	24	Ferrari, M.; Cirisano, F. Wetting Properties of Simulated and Commercial Contaminants on High Transmittance Superhydrophobic Coating. Nanomaterials 2023, 13, 2541. https://doi.org/10.3390/nano13182541	0.133
	25	Blaga R; Calinoiu D and Trif-Tordai G, Changes in Anthropogenic Aerosols during the First Wave of COVID-19 Lockdowns in the Context of Long-Term Historical Trends at 51 AERONET Stations, REMOTE SENSING, Volume16 Issue19, Article Number 3618, OCT 2024	0.133
XVI	Grecu, Daniela Stefania; Paulescu, Eugenia, Quality in post-analytical phase: Indirect reference intervals for erythrocyte parameters of neonates, CLINICAL BIOCHEMISTRY Volume: 46 Issue: 7-8 Pages: 617-621, 2013, DOI:10.1016/j.clinbiochem.2013.02.013		3.5
	1	Wang, Yan; Zhang, Yu-xia; Zhou, Yong-lie; et al. Establishment of reference intervals for serum thyroid-stimulating hormone, free and total thyroxine, and free and total triiodothyronine for the Beckman Coulter Dxi-800 analyzers by indirect method using data obtained from Chinese population in Zhejiang Province, China, JOURNAL OF CLINICAL LABORATORY ANALYSIS Volume: 31 Issue: 4 Article Number: e22069 Published: JUL 2017	0.5

	2	Ozarda, Yesim; Sikaris, Ken; Streichert, Thomas; et al. Distinguishing reference intervals and clinical decision limits - A review by the IFCC Committee on Reference Intervals and Decision Limits Group Author(s): IFCC Comm Reference Intervals Deci, CRITICAL REVIEWS IN CLINICAL LABORATORY SCIENCES Volume: 55 Issue: 6 Pages: 420-431 Published: 2018			0.5
	3	Monneret, Denis; Desmurs, Laurent; Zaepfel, Sabine; et al., Reference percentiles for paired arterial and venous umbilical cord blood gases: An indirect nonparametric approach, CLINICAL BIOCHEMISTRY Volume: 67 Pages: 40-47 Published: MAY 2019			0.5
	4	Holmes, Daniel T.; Buhr, Kevin A., Widespread Incorrect Implementation of the Hoffmann Method, the Correct Approach, and Modern Alternatives, AMERICAN JOURNAL OF CLINICAL PATHOLOGY Volume: 151 Issue: 3 Pages: 328-336 Published: MAR 2019			0.5
	5	Song, Chao; Zhou, Jun; Xia, Jun; et al., Optimization and validation of patient-based real-time quality control procedure using moving average and average of normals with multi-rules for TT3, TT4, FT3, FT3, and TSH on three analyzers, JOURNAL OF CLINICAL LABORATORY ANALYSIS Article Number: e23314 Early Access: MAY 2020			0.5
	6	Ha, F ; Wu, YH ; Wang, HN ; Wang, TC , The Reference Intervals of Whole Blood Copper, Zinc, Calcium, Magnesium, and Iron in Infants Under 1 Year Old, BIOLOGICAL TRACE ELEMENT RESEARCH, Volume200, Issue1, Page1-12, PublishedJAN 2022/Feb 2021 Early Access			0.5
	7	Chai, JT ; Sun, ZY ; Zhang, SL ; Zhou, Q ; Xu, JC, An indirect approach for reference intervals establishment of immunoglobulin A, G and M: the combination of laboratory database and statistics, SCANDINAVIAN JOURNAL OF CLINICAL & LABORATORY INVESTIGATION, Jun 2022 (Early Access)			0.5
XVII.	Pacurar, Angel; Stefu, Nicoleta; Mares, Oana; <u>Paulescu Eugenia</u> ; Calinoiu Delia; Pop Nicolina; Boata Remus; Gravila Paul; Paulescu Marius; Forecasting hourly global solar irradiation using simple non-seasonal models, JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY 2013, Vol. 5 Issue: 6 Article Number: 063140 DOI:10.1063/1.4858617		4	7	0.571
	1	Chakkaravarthy, A. Naveen; Subathra, M. S. P.; Pradeep, P. Jerin; et al , Solar irradiance forecasting and energy optimization for achieving nearly net zero energy building, JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY Volume: 10 Issue: 3 Article Number: 035103 Published: MAY 2018			0.142
	2	Blaga, Robert; Sabadus, Andreea; Stefu, Nicoleta; et al., A current perspective on the accuracy of incoming solar energy forecasting, PROGRESS IN ENERGY AND COMBUSTION SCIENCE Volume: 70 Pages: 119-144 Published: JAN 2019			0.142
	3	A.Carpentieri, D. Folini, D. Nerini, S. Pulkkinen, M. Wild, A. Meyer, Intraday probabilistic forecasts of surface solar radiation with cloud scale-dependent autoregressive advection, Applied Energy, Volume 351, 2023,121775			0.142
	4	Article I. Ayata, F; Seyyarer, E and Yüzer, EÖ, Solar Irradiation Prediction Using Time Series Models: Performance Evaluation with Hyperparameter Optimization and K-Fold Cross-Validation, JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY 2026, Vol 21, Issue 3, Page 2935-2959, DOI:10.1007/s42835-026-02687-y			0.142
XVIII.	Grecu, Daniela Stefania; Paulescu, Eugenia, Quality assurance in the laboratory testing process: Indirect estimation of the reference intervals for platelet parameters in neonates, CLINICAL BIOCHEMISTRY		7	2	3.5

	CLINICAL BIOCHEMISTRY Volume: 47 Issue: 15 Pages: 33-37 Published: OCT 2014, DOI10.1016/j.clinbiochem.2014.07.002			
1	Dittadi, Ruggero, The challenge of the reference intervals determination: An example from two articles published in the present issue, INTERNATIONAL JOURNAL OF BIOLOGICAL MARKERS Volume: 33 Issue: 4 Pages: 553-554 Published: NOV 2018			0.5
2	Monneret, Denis; Desmurs, Laurent; Zaepfel, Sabine; et al., Reference percentiles for paired arterial and venous umbilical cord blood gases: An indirect nonparametric approach CLINICAL BIOCHEMISTRY Volume: 67 Pages: 40-47 Published: MAY 2019			0.5
3	Ma, CC ; Wang, XL ; Wu, J ; Cheng, XQ ; Xia, LY ; Xue, F ; Qiu, L, Real-world big-data studies in laboratory medicine: Current status, application, and future considerations, Volume84, Page21-30, PublishedOCT 2020			0.5
4	Cui, DY ; Hou, Y ; Feng, L ; Li, G ; Zhang, C ; Huang, YL ; Fan, JB ; Hu, Q , Capillary blood reference intervals for platelet parameters in healthy full-term neonates in China, (provided by Clarivate) , BMC PEDIATRICS, Volume20, Issue1, Article Number471, PublishedOCT 10 2020			0.5
5	Ha, F ; Wu, YH ; Wang, HN ; Wang, TC, The Reference Intervals of Whole Blood Copper, Zinc, Calcium, Magnesium, and Iron in Infants Under 1 Year Old, BIOLOGICAL TRACE ELEMENT RESEARCH, Volume200, Issue1, Page1-12 , PublishedJAN 2022/Feb 2021 Early Access			0.5
6	Yang, D; Su, ZH and Zhao, M, Big data and reference intervals, CLINICA CHIMICA ACTA 527 , pp.23-32, Feb 15 2022			0.5
7	Szczepanski, TS ; Nilsen, KB; Dunker, O ; Reiner, AH; Sand, T ; Tannemaat, M; Yazidi, A; Bach, K ; Zwart, JA ; Jabre, J, Improving Indirect Methods for Calculating Reference Limits for Nerve Conduction Studies From Historical Data, MUSCLE & NERVE 2026, DOI:10.1002/mus.70281			0.5
XIX.	Calinoiu, Delia-Gabriela; Stefu, Nicoleta; Paulescu, Marius; Trif-Tordai, G; Mares, O; Paulescu, Eugenia; Boata, R; Pop, N; Pacurar, A Evaluation of errors made in solar irradiance estimation due to averaging the Angstrom turbidity coefficient, ATMOSPHERIC RESEARCH Volume: 150 Pages: 69-78 Published: DEC 2014, DOI:10.1016/j.atmosres.2014.07.015			1
1	Bright, J. M.; Smith, C. J.; Taylor, P. G.; et al. Stochastic generation of synthetic minutely irradiance time series derived from mean hourly weather observation data SOLAR ENERGY Volume: 115 Pages: 229-242 Published: MAY 2015			0.142
2	Lin, Aiwen; Zou, Ling; Wang, Lunche; et al. Estimation of atmospheric turbidity coefficient beta over Zhengzhou, China during 1961-2013 using an improved hybrid model RENEWABLE ENERGY Volume: 86 Pages: 1134-1144 Published: FEB 2016			0.142
3	Ruiz-Arias, Jose A.; Gueymard, Christian A.; Santos-Alamillos, Francisco J.; et al. Bias induced by the AOD representation time scale in long-term solar radiation calculations. Part 2: Impact on long-term solar irradiance predictions SOLAR ENERGY Volume: 135 Pages: 625-632 Published: OCT 2016			0.142
4	Ruiz-Arias, Jose A.; Gueymard, Christian A.; Quesada-Ruiz, Samuel; et al. Bias induced by the AOD representation time scale in long-term solar radiation calculations. Part 1: Sensitivity of the AOD distribution to the representation time scale SOLAR ENERGY Volume: 137 Pages: 608-620 Published: NOV 1 2016			0.142
5	Bright, Jamie M.; Babacan, Oytun; Kleissl, Jan; et al. A synthetic, spatially decorrelating solar irradiance generator and application to a LV grid model with high PV penetration, SOLAR ENERGY Volume: 147 Pages: 83-98 Published: MAY 1 2017			0.142

	6	dos Santos, CM ; Escobedo, JF ; de Souza, A ; Ihaddadene, R ; Gomes, EN; da Silva, MBP, Comparative Study of 16 Clear-Sky Radiative Transfer Models to Estimate Direct Normal Irradiance (DNI) in Botucatu, Brazil, JOURNAL OF SOLAR ENERGY ENGINEERING-TRANSACTIONS OF THE ASME, Volume143, Issue3, Article Number030801, Published: JUN 1 2021			0.142
	7	Solar vapor generation using 3D printed super-wicking and light-absorbing surfaces, Liu, XZ ; Liu, GH ; Chen, T , DESALINATION, Volume609, Article Number 118910, AUG 2025			0.142
XX.		Marius Paulescu, Oana Mares, <u>Eugenia Paulescu</u> , Nicoleta Stefu, Angel Pacurar, Delia Calinoiu, Paul Gravila, Nicolina Pop, Remus Boata, Nowcasting solar irradiance using the sunshine number, Energy Conversion and Management, 2014, Vol. 79, 690-697. DOI:10.1016/j.enconman.2013.12.048	20	7	2.857
	1	Yao W, Li Z, Wang Y. Evaluation of global solar radiation models for Shanghai, China, Energy Conversion and Management 84 (2014), 597-612.			0.142
	2	M.R. Yaiche, A. Bouhanik, S.M.A. Bekkouche, A. Malek, T. Benouaz, Revised solar maps of Algeria based on sunshine duration, Energy Conversion and Management 82 (2014) 114–123.			0.142
	3	Brabec, Marek; Paulescu, Marius; Badescu, Viorel, Tailored vs black-box models for forecasting hourly average solar irradiance, SOLAR ENERGY Volume: 111 Pages: 320-331 Published: JAN 2015			0.142
	4	Rajendran, Parvathy; Smith, Howard, Implications of longitude and latitude on the size of solar-powered UAV, ENERGY CONVERSION AND MANAGEMENT Volume: 98 Pages: 107-114 Published: JUL 1 2015			0.142
	5	Mao, Qianjun; Yuan, Yuan; Zhang, Chuanxing; et al. Calculation of Aerosol Optical Depth in Solar Radiation for Different Meteorological Conditions , ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY Volume: 35 Issue: 6 Pages: 1801-1808 Published: NOV 2016			0.142
	6	Ayodele, T. R.; Ogunjuyigbe, A. S. O.; Monyei, C. G. , On the global solar radiation prediction methods, JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY Volume: 8 Issue: 2 Article Number: 023702 Published: MAR 2016			0.142
	7	Blaga, Robert; Paulescu, Marius, Quantifiers for the solar irradiance variability: A new perspective, SOLAR ENERGY Volume: 174 Pages: 606-616 Published: NOV 1 2018			0.142
	8	Voyant, Cyril; Notton, Gilles, Solar irradiation nowcasting by stochastic persistence: A new parsimonious, simple and efficient forecasting tool RENEWABLE & SUSTAINABLE ENERGY REVIEWS Volume: 92 Pages: 343-352 Published: SEP 2018			0.142
	9	Blaga, Robert; Sabadus, Andreea; Stefu, Nicoleta; et al., A current perspective on the accuracy of incoming solar energy forecasting, PROGRESS IN ENERGY AND COMBUSTION SCIENCE Volume: 70 Pages: 119-144 Published: JAN 2019			0.142
	10	Blaga, Robert, The impact of temporal smoothing on the accuracy of separation models, SOLAR ENERGY Volume: 191 Pages: 371-381 Published: OCT 2019			0.142
	11	Caldas, M.; Alonso-Suarez, R., Very short-term solar irradiance forecast using all-sky imaging and real-time irradiance measurement, RENEWABLE ENERGY Volume: 143 Pages: 1643-1658 Published: DEC 2019			0.142
	12	Gallego, Antonio J.; Sanchez, Adolfo J.; Berenguel, M.; et al., Adaptive UKF-based model predictive control of a Fresnel collector field, JOURNAL OF PROCESS CONTROL Volume: 85 Pages: 76-90 Published: JAN 2020			0.142

	13	Fara, L ; Diaconu, A ; Craciunescu, D ; Fara, S, Forecasting of Energy Production for Photovoltaic Systems Based on ARIMA and ANN Advanced Models, INTERNATIONAL JOURNAL OF PHOTOENERGY, Volume2021, Article Number6777488, PublishedAUG 9 2021	0.142
	14	Li, FF; Zuo, HM; (...); Qiu, J , Hybrid Cloud Detection Algorithm Based on Intelligent Scene Recognition, JOURNAL OF ATMOSPHERIC AND OCEANIC TECHNOLOGY 39 (6) , pp.837-847, Jun 2022	0.142
	15	Zuo, HM; Qiu, J; Jia, YH ; Wang, Q; Li, FF, Ten-minute prediction of solar irradiance based on cloud detection and a long short-term memory (LSTM) model, ENERGY REPORTS 8 , pp.5146-5157, Nov 2022	0.142
	16	Paulescu, M ; Stefu. N ; Dughir, C ; Sabadus, A ; Calinoiu, D; Badescu, V, A simple but accurate two-state model for nowcasting PV power, RENEWABLE ENERGY, Volume195,Page322-330, Published AUG 2022	0.142
	17	Rocha, PAC; Santos, VO, Global horizontal and direct normal solar irradiance modeling by the machine learning methods XGBoost and deep neural networks with CNN-LSTM layers: a case study using the GOES-16 satellite imagery, INTERNATIONAL JOURNAL OF ENERGY AND ENVIRONMENTAL ENGINEERING, Volume13, Issue4, Page1271-1286, DOI10.1007/s40095-022-00493-6, PublishedDEC 2022	0.142
	18	Marius Paulescu, Robert Blaga, Ciprian Dughir, Nicoleta Stefu, Andreea Sabadus, Delia Calinoiu, Viorel Badescu, Intra-hour PV power forecasting based on sky imagery, Energy, Volume 279, 2023, 128135	0.142
	19	Gao Xiu-Yan, Liu Jie-Mei, Yuan Yuan, Tan He-Ping, Global horizontal irradiance prediction model considering the effect of aerosol optical depth based on the Informer model, Renewable Energy, Volume 220, 2024,119671	0.142
	20	Merging machine learning sky imaging methods with the two-state model in photovoltaic power nowcasting, Hategan, SM ; Paulescu, M ; JAPANESE JOURNAL OF APPLIED PHYSICS, Volume64 Issue3, Article Number 03SP35, MAR 2025	0.142
XXI.		Paulescu, M.; Stefu, N.; Calinoiu, D.; Paulescu,E; Pop,N; Boata, R; Mares,O; Angstrom-Prescott equation: Physical basis, empirical models and sensitivity analysis, RENEWABLE & SUSTAINABLE ENERGY REVIEWS Volume: 62 Pages: 495-506 Published: SEP 2016, DOI:10.1016/j.rser.2016.04.012	73 6 12.166
	1.	Ramgolam, Yatindra Kumar; Soyjaudah, Krishnaraj Madhavjee Sunjiv, Holistic performance appraisal of a photovoltaic system, RENEWABLE ENERGY Volume: 109 Pages: 440-448 Published: AUG 2017	0.166
	2	Feng, Lan; Lin, Aiwen; Wang, Lunche; et al. Evaluation of sunshine-based models for predicting diffuse solar radiation in China RENEWABLE & SUSTAINABLE ENERGY REVIEWS Volume: 94 Pages: 168-182 Published: OCT 2018	0.166
	3	Yildirim, H. Basak; Teke, Ahmet; Antonanzas-Torres, Fernando, Evaluation of classical parametric models for estimating solar radiation in the Eastern Mediterranean region of Turkey, RENEWABLE & SUSTAINABLE ENERGY REVIEWS Volume: 82 Pages: 2053-2065 Part: 3 Published: FEB 2018	0.166
	4	Yildirim, H. Basak; Celik, Ozgur; Teke, Ahmet; et al, Estimating daily Global solar radiation with graphical user interface in Eastern Mediterranean region of Turkey, RENEWABLE & SUSTAINABLE ENERGY REVIEWS Volume: 82 Pages: 1528-1537 Part: 1 Published: FEB 2018	0.166
	5	Rezaei, Mostafa; Mostafaeipour, Ali; Qolipour, Mojtaba; et al, Investigation of the optimal location design of a hybrid wind-solar plant: A case study, INTERNATIONAL JOURNAL OF HYDROGEN ENERGY Volume: 43 Issue: 1 Pages: 100-114 Published: JAN 4 2018	0.166

6	Taki, Morteza; Rohani, Abbas; Yildizhan, Hasan; et al, Energy-exergy modeling of solar radiation with most influencing input parameters, ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS Volume: 41 Issue: 17 Pages: 2128-2144 Published: SEP 2 2019	0.166
7	Chen, Ji-Long; He, Lei; Yang, Hong; et al., Empirical models for estimating monthly global solar radiation: A most comprehensive review and comparative case study in China, RENEWABLE & SUSTAINABLE ENERGY REVIEWS Volume: 108 Pages: 91-111 Published: JUL 2019	0.166
8	Feng, Yu; Cui, Ningbo; Chen, Yuxin; et al, Development of data-driven models for prediction of daily global horizontal irradiance in Northwest China, JOURNAL OF CLEANER PRODUCTION Volume: 223 Pages: 136-146 Published: JUN 20 2019	0.166
9	Makade, Rahul G.; Chakrabarti, Siddharth; Jamil, Basharat, Prediction of global solar radiation using a single empirical model for diversified locations across India, URBAN CLIMATE Volume: 29 Article Number: UNSP 100492 Published: SEP 2019	0.166
10	Blaga, Robert, The impact of temporal smoothing on the accuracy of separation models SOLAR ENERGY Volume: 191 Pages: 371-381 Published: OCT 2019	0.166
11	Ramgolam, Yatindra Kumar; Soyjaudah, Krishnaraj Madhavjee Sunjiv, Assessment and validation of global horizontal radiation: a case study in Mauritius, INTERNATIONAL JOURNAL OF GREEN ENERGY Volume: 16 Issue: 14 Pages: 1317-1328 Published: NOV 14 2019	0.166
12	Liu, Yujie; Tan, Qinghua; Pan, Tao, Determining the Parameters of the angstrom ngstrom-Prescott Model for Estimating Solar Radiation in Different Regions of China: Calibration and Modeling, EARTH AND SPACE SCIENCE Volume: 6 Issue: 10 Pages: 1976-1986 Published: OCT 2019	0.166
13	Brabec, Marek; Dumitrescu, Alexandru; Paulescu, Marius; et al., A new perspective on the sunshine duration variability, THEORETICAL AND APPLIED CLIMATOLOGY Volume: 139 Issue: 3-4 Pages: 1219-1230 Published: FEB 2020	0.166
14	Feng, Yu; Gong, Daozhi; Jiang, Shouzheng; et al., National-scale development and calibration of empirical models for predicting daily global solar radiation in China, ENERGY CONVERSION AND MANAGEMENT Volume: 203 Article Number: 112236 Published: JAN 1 2020	0.166
15	Makade, Rahul G.; Chakrabarti, Siddharth; Jamil, Basharat; et al., Estimation of global solar radiation for the tropical wet climatic region of India: A theory of experimentation approach, RENEWABLE ENERGY Volume: 146 Pages: 2044-2059 Published: FEB 2020	0.166
16	Mutani, Guglielmina; Todeschi, Valeria, The Effects of Green Roofs on Outdoor Thermal Comfort, Urban Heat Island Mitigation and Energy Savings, ATMOSPHERE Volume: 11 Issue: 2 Article Number: 123 Published: FEB 2020	0.166
17	Noorollahi, Younes; Mohammadi, Mohammad; Yousefi, Hossein; et al., A Spatial-Based Integration Model for Regional Scale Solar Energy Technical Potential, SUSTAINABILITY Volume: 12 Issue: 5 Article Number: 1890 Published: MAR 1 2020	0.166
18	Cheng, Liang; Zhang, Fangli; Li, Shuyi; et al., Solar energy potential of urban buildings in 10 cities of China, ENERGY Volume: 196 Article Number: 117038 Published: APR 1 2020	0.166
19	Almorox, Javier; Arnaldo, J. A.; Bailek, Nadjem; et al., Adjustment of the Angstrom-Prescott equation from Campbell-Stokes and Kipp-Zonen sunshine measures at different timescales in Spain, RENEWABLE ENERGY Volume: 154 Pages: 337-350 Published: JUL 2020	0.166

20	Scheidsteger, Thomas; Haunschild, Robin, Telling the story of solar energy meteorology into the satellite era by applying (co-citation) reference publication year spectroscopy, SCIENTOMETRICS Volume: 125 Issue: 2 Pages: 1159-1177 Published: NOV 2020 Early Access: JUL 2020	0.166
21	Mabasa, Brighton; Lysko, Meena D.; Tazvinga, Henerica; et al. The angstrom ngstrom-Prescott Regression Coefficients for Six Climatic Zones in South Africa, ENERGIES Volume: 13 Issue: 20 Article Number: 5418 Published: OCT 2020	0.166
22	Abebe Worke, Bizuayehu; Bludszuweit, Hans; Dominguez-Navarro, Jose A., Solar Radiation Estimation Using Data Mining Techniques for Remote Areas-A Case Study in Ethiopia, ENERGIES Volume: 13 Issue: 21 Article Number: 5714 Published: NOV 2020	0.166
23	Al-Aboosi, FY, Models and hierarchical methodologies for evaluating solar energy availability under different sky conditions toward enhancing concentrating solar collectors use: Texas as a case study, INTERNATIONAL JOURNAL OF ENERGY AND ENVIRONMENTAL ENGINEERING, Volume11, Issue2, Page177-205, Published: JUN 2020	0.166
24	Raniero, MR ; Calca, MVC ; Fernando, DMZ ; de Almeida, OCP ; Dal Pai, A , Software for automated reading of sunshine duration by Digital Image Processing, IEEE LATIN AMERICA TRANSACTIONS, Volume18, Issue09, Page1599-1605, Published:SEP 2020	0.166
25	Worke, BA; Bludszuweit, H ; Dominguez-Navarro, JA , Solar Radiation Estimation Using Data Mining Techniques for Remote Areas-A Case Study in Ethiopia, ENERGIES, Volume13, Issue21, Article Number5714, Published:NOV 2020	0.166
26	Klimenta, D ; Lekic, J ; Arsic, S ; Tasic, D ; Krstic, N ; Radosavljevic, D, A Novel Procedure for Quick Design of Off-Grid PV Water Pumping Systems for Irrigation, ELEKTRONIKA IR ELEKTROTEHNIKA, Volume27, Issue2, Page55-68, Published: 2021	0.166
27	Zuluaga, CF ; Avila-Diaz, A ; Justino, FB ; Wilson, AB, Climatology and trends of downward shortwave radiation over Brazil, ATMOSPHERIC RESEARCH, Volume250, Article Number105347, PublishedMAR 2021	0.166
28	Feng, Y ; Zhang, XL; Jia, Y ; Cui, NB ; Hao, WP ; Li, HY ; Gong, DZ, High-resolution assessment of solar radiation and energy potential in China, ENERGY CONVERSION AND MANAGEMENT, Volume240, Article Number114265, PublishedJUL 15 2021	0.166
29	Yakoubi, H ; EL Mghouchi, Y ; Abdou, N; Hajou, A ; Khellouki, A, Correlating clearness index with cloud cover and other meteorological parameters for forecasting the global solar radiation over Morocco, OPTIK, Volume242, Article Number167145, PublishedSEP 2021	0.166
30	Ramgolam, YK ; Bangarigadu, K ; Hookoom, T, A Robust Methodology for Assessing the Effectiveness of Site Adaptation Techniques for Calibration of Solar Radiation Data, JOURNAL OF SOLAR ENERGY ENGINEERING-TRANSACTIONS OF THE ASME, Volume143, Issue3, Article Number031009, PublishedJUN 1 2021	0.166
31	Bangarigadu, K; Hookoom, T; Ramgolam, YK ; Kune, NF, Analysis of Solar Power and Energy Variability Through Site Adaptation of Satellite Data With Quality Controlled Measured Solar Radiation Data, JOURNAL OF SOLAR ENERGY ENGINEERING-TRANSACTIONS OF THE ASME, Volume143, Issue3, Article Number031008, PublishedJUN 1 2021	0.166
32	Wu, W; Tang, XP ; Lv, JK ; Yang, C ; Liu, HB, Potential of Bayesian additive regression trees for predicting daily global and diffuse solar radiation in arid and humid areas, RENEWABLE ENERGY, Volume177, Page148-163, PublishedNOV 2021	0.166
33	Mirzabe, AH ; Hajiahmad, A ; Keyhani, A, Assessment and categorization of empirical models for estimating monthly, daily, and hourly diffuse solar radiation: A case study of Iran, SUSTAINABLE	0.166

		ENERGY TECHNOLOGIES AND ASSESSMENTS, Volume47, Article Number101330, PublishedOCT 2021	
	34	Chaibi, M; Benghoulam, E ; Tarik, L; Berrada, M; El Hmadi, A, An Interpretable Machine Learning Model for Daily Global Solar Radiation Prediction, ENERGIES, Volume14, Issue21,Article Number7367, PublishedNOV 2021	0.166
	35	Paulescu, M ; Badescu, V ; Budea, S ; Dumitrescu, A, What Angstrom-Prescott equation tells us about the cloud and clear-sky climatologies?, THEORETICAL AND APPLIED CLIMATOLOGY, Volume147, Issue1-2, Page239-250, PublishedJAN 2022	0.166
	36	Chen, S; He, C; Huang, Z ; Xu, XJ ; Jiang, TC ; He, ZH ; Liu, JD; Su, BF ; Feng, H; Yu, Q, ... He, JQ, Using support vector machine to deal with the missing of solar radiation data in daily reference evapotranspiration estimation in China, AGRICULTURAL AND FOREST METEOROLOGY 316, Apr 1 2022	0.166
	37	Li, Y; Ming, B; Huang, Q ; Wang, YM ; Liu, P; Guo, PC, Identifying effective operating rules for large hydro-solar-wind hybrid systems based on an implicit stochastic optimization framework, ENERGY 245, Apr 15 2022	0.166
	38	Zhang, ZT; Sun, S; Zhang, FL ; Guo, SB ; Guo, EJ ; Liu, ZJ ; Zhao, J ; Zhao, C ; Li, T; Yang, XG, Using estimated radiation in crop models amplified the negative impacts of climate variability on maize and winter wheat yields in China, AGRICULTURAL AND FOREST METEOROLOGY 318, May 1 2022	0.166
	39	Prieto, JI; Garcia, D and Santoro, R, Comparative Analysis of Accuracy, Simplicity and Generality of Temperature-Based Global Solar Radiation Models: Application to the Solar Map of Asturias, SUSTAINABILITY 14 (11), Jun 2022	0.166
	40	Prieto, JI and Garcia, D, Modified temperature-based global solar radiation models for estimation in regions with scarce experimental data, Sep 15 2022 ENERGY CONVERSION AND MANAGEMENT 268.	0.166
	41	Paulescu, M; Badescu, V; Budea, S; Dumitrescu, A; Empirical sunshine-based models vs online estimators for solar resources, RENEWABLE & SUSTAINABLE ENERGY REVIEWS, Volume168, Article Number112868, DOI10.1016/j.rser.2022.112868, PublishedOCT 2022.	0.166
	42	Peng, ZG; Chen, H; Wei, Z; Zhang, BZ; Zhang, SY ; Gong, LQ; Yang, GY; Cai, JB; Li, WC; Zhang, Q ; Coefficient correction of Angstro spacing diaeresis m-Prescott equation for China and its influence on solar radiation and reference crop evapotranspiration at different temporal and spatial scales, JOURNAL OF CLEANER PRODUCTION, Volume375, Article Number134013, DOI10.1016/j.jclepro.2022.134013, PublishedNOV 15 2022	0.166
	43	Guermoui, M; Gairaa, K ; Ferkous, K ; Santos, DSD ; Arrif, T ; Belaid, A; Potential assessment of the TVF-EMD algorithm in forecasting hourly global solar radiation: Review and case studies, JOURNAL OF CLEANER PRODUCTION, Volume385, Article Number135680, DOI10.1016/j.jclepro.2022.135680, PublishedJAN 20 2023, Early AccessDEC 2022	0.166
	44	Woldegiyorgis, TA; Admasu, A; Benti, NE; Asfaw, AA; A Comparative Evaluation of Artificial Neural Network and Sunshine Based models in prediction of Daily Global Solar Radiation of Lalibela, Ethiopia, COGENT ENGINEERING, Volume9, Issue1, Article Number1996871, DOI10.1080/23311916.2021.1996871, PublishedDEC 31 2022	0.166

45	Yi Guo, Bo Ming, Qiang Huang, Ziwei Yang, Yun Kong, Xianxun Wang, Variation-based complementarity assessment between wind and solar resources in China, Energy Conversion and Management, Volume 278, 2023, 116726	0.166
46	Samuel Chukwujindu Nwokolo, Anthony Umunnakwe Obiwulu, Julie C. Ogbulezie, Machine learning and analytical model hybridization to assess the impact of climate change on solar PV energy production, Physics and Chemistry of the Earth, Parts A/B/C, Volume 130, 2023, 103389	0.166
47	Fu, Y.; Zhou, Z.; Li, J.; Zhang, S. Impact of Aerosols on NPP in Basins: Case Study of WRF–Solar in the Jinghe River Basin. Remote Sens. 2023, 15, 1908. https://doi.org/10.3390/rs15071908	0.166
48	Ruixiaoxiao Zhang, Minhyun Lee, Optimization of Feed-in Tariff mechanism for residential and industrial photovoltaic adoption in Hong Kong, Journal of Cleaner Production, Volume 406, 2023, 137043	0.166
49	Wei, Z.; Bian, D.; Du, X.; Gao, Z.; Li, C.; Liu, G.; Yang, Q.; Jiang, A.; Cui, Y. An Increase in Solar Radiation in the Late Growth Period of Maize Alleviates the Adverse Effects of Climate Warming on the Growth and Development of Maize. Agronomy 2023, 13, 1284. https://doi.org/10.3390/agronomy13051284	0.166
50	You Li, Yafei Wang, Hui Qian, Weijun Gao, Hiroatsu Fukuda, Weisheng Zhou, Hourly global solar radiation prediction based on seasonal and stochastic feature, Heliyon, Volume 9, Issue 9, 2023, e19823	0.166
51	Benmouiza, M.S., Hachani, L. & Benmouiza, K. Estimation of global horizontal solar irradiation data using an enhanced Angstrom model using the k-means clustering method. Energy Syst (2023). https://doi.org/10.1007/s12667-023-00620-0	0.166
52	Yu, X.; Yi, X.; Li, M.-F.; Dai, S.; Li, H.; Luo, H.; Zheng, Q.; Hu, Y. Calibration of the Ångström–Prescott Model for Accurately Estimating Solar Radiation Spatial Distribution in Areas with Few Global Solar Radiation Stations: A Case Study of the China Tropical Zone. Atmosphere 2023, 14, 1825. https://doi.org/10.3390/atmos14121825	0.166
53	Yirga Kebede Wondim, Ayalew Wondie Melese, Evaluation of the evapotranspiration rate of lacustrine wetland macrophytes in Lake Tana, Ethiopia, Ecohydrology & Hydrobiology, Volume 23, Issue 4, 2023, Pages 623-634	0.166
54	González-Plaza, E.; García, D.; Prieto, J.-I. Monthly Global Solar Radiation Model Based on Artificial Neural Network, Temperature Data and Geographical and Topographical Parameters: A Case Study in Spain. Sustainability 2024, 16, 1293. https://doi.org/10.3390/su16031293	0.166
55	Zhe Chen, Bisheng Yang, Rui Zhu, Zhen Dong, City-scale solar PV potential estimation on 3D buildings using multi-source RS data: A case study in Wuhan, China, Applied Energy, Volume 359, 2024, 122720	0.166
56	Enhancing and Optimising Solar Power Forecasting in Dhar District of India using Machine Learning, Sharma, P; Mishra, RK; Bansal, RC, SMART GRIDS AND SUSTAINABLE ENERGY, Volume9 Issue1, Article Number16, FEB 22 2024	0.166
57	Smart algorithms for power prediction in smart EV charging stations, Subashini, M ; Sumathi, V , JOURNAL OF ENGINEERING RESEARCH, Volume12 Issue2 Page124-134, JUN 2024	0.166
58	SunCounter: Software for automated reading of sunshine duration recorded by heliographs, Raniero, MR ; Calça, MVC ; Franco, JR ; Dal Pai, A ;JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY, Volume16 Issue4 Article Number 043702, JUL 2024	0.166

59	Assessment of a Temperature-Based Artificial Neural Network Designed for Global Solar Radiation Estimation in Regions with Sparse Experimental Data, González-Plaza, E ; García, D ; Prieto, JI, SUSTAINABILITY, Volume16 Issue24, Article Number 11201, DEC 2024	0.166
60	Human activities dominated terrestrial productivity increase over the past 22 years in typical arid and semiarid regions of Xinjiang, China, He, X ; Zhang, F ; Zhou, T ; Xu, Y ; Xu, YJ ; Jim, CY ; Johnson, BA ; Ma, X ; CATENA, Volume250, Article Number 108754, MAR 2025	0.166
61	Rice yield stability and its determinants across different rice-cropping systems in China, Wang, SY ; Liu, YJ ; Asseng, S ; Harrison, MT ; Tang, L ; Liu, B ; Liu, K ; Luo, ZK ; Wang, EL ; Chang, JF ; AGRICULTURAL AND FOREST METEOROLOGY, Volume364, Article Number 110452, APR 2025	0.166
62	Impact of human activities on the propagation dynamics from meteorological to hydrological drought in the Nenjiang River Basin, Northeast China, Geng, XB, ; Lei, XP ; Song, XY ; Zhang, JY ; Liu, WB, JOURNAL OF HYDROLOGY-REGIONAL STUDIES, Volume58, Article Number 102214, APR 2025	0.166
63	A daily sunshine duration (SD) dataset in China from Himawari AHI imagery (2016-2023), Zhang, ZH ; Fang, SB ; Han, JH ; EARTH SYSTEM SCIENCE DATA, Volume17 Issue4 Page1427-1439, APR 2025	0.166
64	Zhao, YM ; Wei, SC ; Chen, D ; Guo, Y ; Ma, B ; Riao, D ; Zhang, JQ ; Tong, ZJ ; Liu, XP ; Zhao, CL, Determining the dynamic response of maize to compound low-temperature and drought stress, EUROPEAN JOURNAL OF AGRONOMY 2026, Vol 172, 127842, DOI10.1016/j.eja.2025.127842	0.166
65	Alanazi, M ; Alanazi, A ; Alamri, YA ; Ali, EA ; Alqahtani, S ; Anqi, AE, Thermal optimization of salinity gradient solar ponds in natural salt lakes for simultaneous renewable heat storage and Artemia cultivation, Solar Energy 2025, Vol 301, 113955, DOI10.1016/j.solener.2025.113955	0.166
66	Wang, SY ; Xiao, LJ ; Smith, P ; Luo, ZK ; Zhuang, J ; Yu, L ; Qin, Y ; Wang, EL ; Fan, YC ; Guo, Y ; Tang, L ; Liu, B ; Liu, LL ; Cao, WX ; Zhu, Y ; AGRICULTURAL SYSTEMS 2026, Vol 231, 104544, DOI:10.1016/j.agry.2025.104544	0.166
67	Sabooding, R ; Panityakul, T ; Khampeera, A ; Kirtsang, S ; Thinnukool, O ; Statistical models for mapping solar irradiation across southern Thailand using meteorological and satellite, FRONTIERS IN ENVIRONMENTAL, 2026, Vol 13, 1657447, DOI:10.3389/fenvs.2025.1657447	0.166
68	Blazejczyk, K ; Baranowski, J and Blazejczyk, A, Assessment of Sunshine Duration for Various Time Resolutions Based on Pyranometric Data (An Example from Temperate Transition Climate of Central Europe), ATMOSPHERE 2026, Vol 17, Issue 1, 83, DOI:10.3390/atmos17010083	0.166
69	Li, C ; Lv, PP ; Huang, T ; Ren, XP, Research on Hourly Solar Radiation Prediction Methodology Based on DSWTC-Transformer, APPLIED SCIENCES-BASEL 2026, Vol 16, Issue 4, 1945, DOI:10.3390/app16041945	0.166
70	Maged, A ; Abo-Zahhad, EM ; Haridy, S ; Rashwan, A ; Mokhtar, I ; Chen, Y ; Abdelhameed, EH ; Salim, MH, Double stacking ensemble learning for solar irradiance prediction in data-scarce regions to support building energy design, ENERGY AND BUILDINGS 2026, Vol 361, 117479, DOI:10.1016/j.enbuild.2026.117479	0.166
71	Belarbi, Z and El Younoussi, Y, Assessment of machine learning models for ETo estimation and spatial generalization using satellite-derived solar radiation: a case study in two moroccan agro-climatic zones, MODELING EARTH SYSTEMS AND ENVIRONMENT 2026, Vol 12, Issue 3, 165, DOI10.1007/s40808-026-02812-w	0.166

	72	Fabel, Y ; Blum, N ; Nouri, B ; Rodriguez, SG ; Wilbert, S; Schmidt, T; Johannsen, O; Zarzalejo, LF ; Kowalski, J ; Pitz-Paal, R, A comprehensive study of the all-sky image and solar irradiance dataset SolarVision Almeria, Solar Energy 2026, Vol 313, 114622, DOI:10.1016/j.solener.2026.114622			0.166
	73	Wang, YF; Li, Y; Ren, CH; Yang, HL, Optimizing solar energy planning: A spatial zoning method based on characterized dimensionless radiation profiles, ISCIENCE 2026, Vol 29, Issue 5, 115545, DOI10.1016/j.isci.2026.115545			0.166
XXII.		<u>Eugenia Paulescu, Robert Blaga, Regression models for hourly diffuse solar radiation, Solar Energy, Vol. 125, 2016, 111-124. DOI:10.1016/j.solener.2015.11.044</u>	40	2	20
	1	Whenshan Wang, Charles S. Zender, Dirk van As, Paul C.J.P. Smeets, Michiel R. Van den Broeke, A Retrospective, Iterative, Geometry-Based (RICB) tilt-correction method for radiation observed by automatic weather stations on snow-covered surfaces: application to Greenland, The Cryosphere, 10, 727-741, 2016.			0.5
	2	Jamil, Basharat; Akhtar, Naiem ,Estimation of diffuse solar radiation in humid-subtropical climatic region of India: Comparison of diffuse fraction and diffusion coefficient models ENERGY Volume: 131 Pages: 149-164 Published: JUL 15 2017			0.5
	3	Jamil, Basharat; Akhtar, Naiem , Comparison of empirical models to estimate monthly mean diffuse solar radiation from measured data: Case study for humid-subtropical climatic region of India RENEWABLE & SUSTAINABLE ENERGY REVIEWS Volume: 77 Pages: 1326-1342 Published: SEP 2017			0.5
	4	Jamil, Basharat; Akhtar, Naiem , Comparative analysis of diffuse solar radiation models based on sky-clearness index and sunshine period for humid-subtropical climatic region of India: A case study RENEWABLE & SUSTAINABLE ENERGY REVIEWS Volume: 78 Pages: 329-355 Published: OCT 2017			0.5
	5	Hassan, Muhammed A.; Khalil, A.; Kaseb, S.; et al. , Exploring the potential of tree-based ensemble methods in solar radiation modeling, APPLIED ENERGY Volume: 203 Pages: 897-916 Published: OCT 1 2017			0.5
	6	Rao, K. D. V. Siva Krishna; Premalatha, M.; Naveen, C. , Method and strategy for predicting daily global solar radiation using one and two input variables for Indian stations, JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY Volume: 10 Issue: 1 Article Number: 013701 Published: JAN 2018			0.5
	7	Rogada, Jose Ramon; Barcia, Lourdes A.; Martinez, Juan Angel; et al. , Comparative Modeling of a Parabolic Trough Collectors Solar Power Plant with MARS Models ENERGIES Volume: 11 Issue: 1 Article Number: 37 Published: JAN 2018			0.5
	8	Larraneta, M.; Moreno-Tejera, S.; Lillo-Bravo, I.; et al, A methodology for the stochastic generation of hourly synthetic direct normal irradiation time series, THEORETICAL AND APPLIED CLIMATOLOGY Volume: 131 Issue: 3-4 Pages: 1517-1527 Published: FEB 2018			0.5
	9	Moslehi, Salim; Reddy, T. Agami; Katipamula, Srinivas, Evaluation of scenario-specific modeling approaches to predict plane of array solar irradiation, SCIENCE AND TECHNOLOGY FOR THE BUILT ENVIRONMENT Volume: 24 Issue: 7 Pages: 770-778 Published: 2018			0.5
	10	Rao, D. V. Siva Krishna K.; Premalatha, M.; Naveen, C. , Analysis of different combinations of meteorological parameters in predicting the horizontal global solar radiation with ANN approach: A case study, RENEWABLE & SUSTAINABLE ENERGY REVIEWS Volume: 91 Pages: 248-258 Published: AUG 2018			0.5

11	Balu, Mande Amol; Rao, D. V. Siva Krishna K.; Premalatha, M., Performance analysis of biomass-based absorber solar still through ANN and MLR approach, DESALINATION AND WATER TREATMENT Volume: 127 Pages: 262-271 Published: SEP 2018	0.5
12	Ameen, Bikhtiyar; Balzter, Heiko; Jarvis, Claire; et al., Validation of Hourly Global Horizontal Irradiance for Two Satellite-Derived Datasets in Northeast Iraq, REMOTE SENSING Volume: 10 Issue: 10 Article Number: 1651 Published: OCT 2018	0.5
13	Blaga, Robert; Paulescu, Marius, Quantifiers for the solar irradiance variability: A new perspective SOLAR ENERGY Volume: 174 Pages: 606-616 Published: NOV 1 2018	0.5
14	Chen, Ji-Long; He, Lei; Chen, Qiao; et al., Study of monthly mean daily diffuse and direct beam radiation estimation with MODIS atmospheric product, RENEWABLE ENERGY Volume: 132 Pages: 221-232 Published: MAR 2019	0.5
15	Wang, Lunche; Lu, Yunbo; Zou, Ling; et al., Prediction of diffuse solar radiation based on multiple variables in China, RENEWABLE & SUSTAINABLE ENERGY REVIEWS Volume: 103 Pages: 151-216 Published: APR 2019	0.5
16	Abreu, Edgar F. M.; Canhoto, Paulo; Costa, Maria Joao, Prediction of diffuse horizontal irradiance using a new climate zone model, RENEWABLE & SUSTAINABLE ENERGY REVIEWS Volume: 110 Pages: 28-42 Published: AUG 2019	0.5
17	Blaga, Robert, The impact of temporal smoothing on the accuracy of separation models, SOLAR ENERGY Volume: 191 Pages: 371-381 Published: OCT 2019	0.5
18	Li, Danny H. W.; Chen, Wenqiang; Li, Shuyang; et al., Estimation of hourly global solar radiation using Multivariate Adaptive Regression Spline (MARS) - A case study of Hong Kong ENERGY Volume: 186 Article Number: UNSP 115857 Published: NOV 1 2019	0.5
19	Wahbah, Maisam; Feng, Samuel F.; El-Fouly, Tarek H. M.; et al., Wind speed probability density estimation using root-transformed local linear regression, ENERGY CONVERSION AND MANAGEMENT Volume: 199 Article Number: 111889 Published: NOV 1 2019	0.5
20	Wahbah, Maisam; Feng, Samuel; EL-Fouly, Tarek H. M.; et al., Root-Transformed Local Linear Regression for Solar Irradiance Probability Density Estimation, IEEE TRANSACTIONS ON POWER SYSTEMS Volume: 35 Issue: 1 Pages: 652-661 Published: JAN 2020	0.5
21	Ettxebarria Berrizbeitia, Saioa; Jadraque Gago, Eulalia; Muneer, Tariq ,Empirical Models for the Estimation of Solar Sky-Diffuse Radiation. A Review and Experimental Analysis ENERGIES Volume: 13 Issue: 3 Article Number: 701 Published: FEB 2020	0.5
22	Campana, Pietro Elia; Landelius, Tomas; Andersson, Sandra; et al., A gridded optimization model for photovoltaic application, SOLAR ENERGY Volume: 202 Pages: 465-484 Published: MAY 15 2020	0.5
23	Fidan, Mehmet; Sertsoz, Mine; Kurban, Mehmet, A Hybrid Model of 2d-DCT and 2d-Mycielski Algorithm for Hourly Global Solar Irradiation, ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING Volume: 20 Issue: 2 Pages: 45-54 Published: MAY 2020	0.5
24	Huynh, Anh Ngoc-Lan; Deo, Ravinesh C.; An-Vo, Duc-Anh; et al., Near Real-Time Global Solar Radiation Forecasting at Multiple Time-Step Horizons Using the Long Short-Term Memory Network, ENERGIES Volume: 13 Issue: 14 Article Number: 3517 Published: JUL 2020	0.5
25	Yang, Dazhi; Gueymard, Christian A., Ensemble model output statistics for the separation of direct and diffuse components from 1-min global irradiance, SOLAR ENERGY Volume: 208 Pages: 591-603 Published: SEP 15 2020	0.5

26	King, E ; Otieno, S ; Standridge, CR, Modeling Solar Energy Data Using Periodic Regression, INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, Volume10, Issue3, Page1255-1263, PublishedSEP 2020	0.5
27	Yazdani, H ; Yaghoubi, M, Techno-economic study of photovoltaic systems performance in Shiraz, Iran, RENEWABLE ENERGY, Volume172, Page251-262, PublishedJUL 2021	0.5
28	Campana, PE ; Stridh, B ; Amaducci, S ; Colauzzi, M, Optimisation of vertically mounted agrivoltaic systems, JOURNAL OF CLEANER PRODUCTION, Volume325, Article Number129091, PublishedNOV 20 2021	0.5
29	Chen, J ; Zhu, WN ; Yu, Q, High-spatiotemporal-resolution estimation of solar energy component in the United States using a new satellite-based model, JOURNAL OF ENVIRONMENTAL MANAGEMENT, Volume302, PartB, Article Number114077, PublishedJAN 15 2022	0.5
30	Gomes, LRTC ; Marques, EP ; Pepe, IM ; Mascarenhas, BS ; de Oliveira, AP ; Franca, JRD, Solar Radiation Components on a Horizontal Surface in a Tropical Coastal City of Salvador, ENERGIES, Volume15, Issue3, Article Number1058, PublishedFEB 2022	0.5
31	Lu, SM ; Zainali, S ; Stridh, B ; Avelin, A ; Amaducci, S ; Colauzzi, M ; Campana, PE; Photosynthetically active radiation decomposition models for agrivoltaic systems application, SOLAR ENERGY, Volume244, Page536-549, DOI10.1016/j.solener.2022.05.046, PublishedSEP 15 2022	0.5
32	Mustafa, J; Husain, S ; Alqaed, S ; Khan, UA; Jamil; Performance of Two Variable Machine Learning Models to Forecast Monthly Mean Diffuse Solar Radiation across India under Various Climate Zones, ENERGIES, Volume15, Issue21, Article Number7851, DOI10.3390/en15217851, PublishedNOV 2022	0.5
33	Chun-Tin Lin, Keh-Chin Chang, Kung-Ming Chung, Re-modeling the solar diffuse fraction in Taiwan on basis of a typical-meteorological-year data, Renewable Energy, Volume 204, 2023, Pages 823-835	0.5
34	Yunhui Tan, Quan Wang, Zhaoyang Zhang, Algorithms for separating diffuse and beam irradiance from data over the East Asia-Pacific region: A multi-temporal-scale evaluation based on minute-level ground observations, Solar Energy, Volume 252, 2023, Pages 218-233	0.5
35	Ying Yu, Yifan Tang, Jinshuai Chou, Liu Yang, A novel adaptive approach for improvement in the estimation of hourly diffuse solar radiation: A case study of China, Energy Conversion and Management, Volume 293, 2023, 117455	0.5
36	Dumitrașcu, M., Grigorescu, I., Vrinceanu, A. et al. An indicator-based approach to assess and compare the environmental and socio-economic consequences of photovoltaic parks in Romania's development regions. Environ Dev Sustain (2024). https://doi.org/10.1007/s10668-024-04585-7	0.5
37	Wide-area sky view factor analysis and Fourier-based decomposition model for optimizing irradiance sensors allocation in European solar photovoltaic farms: A software tool, Alcañiz, A ; van Kouwen, MI; Isabella, O ; Ziar, H , SOLAR ENERGY, Volume286, Article Number 113139,JAN 2025	0.5
38	Estimation of Solar Diffuse Radiation in Chongqing Based on Random Forest, Wan, PH ; He, YJ ; Zheng, CY; Wen, JX ; Gu, ZT , ENERGIE Volume 18, Issue 4, Article Number836, FEB 2025	0.5
39	Methodology for estimating building thermal resistance and heat capacity values in-situ using exterior measurements and meteorological data, Tardy, F, JOURNAL OF BUILDING ENGINEERING, Volume 101, Article Number 111768, MAY 2025	0.5

	40	Evaluation of reverse transposition and separation methods for global tilted irradiance: Insights from high-latitude data, Rynoson, M; Lu, SM; Campana, PE, SOLAR ENERGY, Volume297, Article Number 113597, SEP 2025			0.5
XXIII.		Stefu, N ; Paulescu, M ; Blaga, R ; Calinoiu, D; Pop, N ; Boata, R ; <u>Paulescu, E</u> A theoretical framework for Angstrom equation. Its virtues and liabilities in solar energy estimation ENERGY CONVERSION AND MANAGEMENT Volume: 112 Pages: 236-245 Published: MAR 15 2016, DOI:10.1016/j.enconman.2016.01.021	11	6	1.826
	1	Brabec, Marek; Paulescu, Marius; Badescu, Viorel, Statistical properties of clear and dark duration lengths SOLAR ENERGY Volume: 153 Pages: 508-518 Published: SEP 1 2017			0.166
	2	Blaga, Robert, The impact of temporal smoothing on the accuracy of separation models SOLAR ENERGY Volume: 191 Pages: 371-381 Published: OCT 2019			0.166
	3	Paulescu, M ; Sabadus, A ; Dumitrescu, A ; Badescu, V, A new parameterization of the effective cloud fields , THEORETICAL AND APPLIED CLIMATOLOGY, Volume142, Issue1-2, Page769-779PublishedOCT 2020			0.166
	4	Almorox, J ; Voyant, C ; Bailek, N ; Kuriqi, A ; Arnaldo, JA, Total solar irradiance's effect on the performance of empirical models for estimating global solar radiation: An empirical-based review, ENERGY, Volume236, Article Number121486, PublishedDEC 1 2021			0.166
	5	Paulescu, M ; Badescu, V ; Budea, S ; Dumitrescu, A, What Angstrom-Prescott equation tells us about the cloud and clear-sky climatologies?, THEORETICAL AND APPLIED CLIMATOLOGY, Volume147, Issue1-2, Page239-250, PublishedJAN 2022			0.166
	6	Paulescu, M; Badescu, V ; Budea, S ; Dumitrescu, A; Empirical sunshine-based models vs online estimators for solar resources, RENEWABLE & SUSTAINABLE ENERGY REVIEWS, Volume168, Article Number112868, DOI10.1016/j.rser.2022.112868, PublishedOCT 2022			0.166
	7	Yi Guo, Bo Ming, Qiang Huang, Ziwei Yang, Yun Kong, Xianxun Wang, Variation-based complementarity assessment between wind and solar resources in China, Energy Conversion and Management, Volume 278,2023,116726			0.166
	8	Hategan, S.-M.; Stefu, N.; Paulescu, M. Calibration of GFS Solar Irradiation Forecasts: A Case Study in Romania. Energies 2023, 16, 4290. https://doi.org/10.3390/en16114290			0.166
	9	Benmouiza, K. (2023). Solar zoning maps of Algeria based on sunshine duration data and Kriging method. International Journal of Heat and Technology, Vol. 41, No. 3, pp. 649-656. https://doi.org/10.18280/ijht.410317			0.166
	10	Yu, X.; Yi, X.; Li, M.-F.; Dai, S.; Li, H.; Luo, H.; Zheng, Q.; Hu, Y. Calibration of the Ångström–Prescott Model for Accurately Estimating Solar Radiation Spatial Distribution in Areas with Few Global Solar Radiation Stations: A Case Study of the China Tropical Zone. Atmosphere 2023, 14, 1825. https://doi.org/10.3390/atmos14121825			0.166
	11	Robert Blaga, Delia Calinoiu, Marius Paulescu, A methodology for realistic estimation of the aerosol impact on the solar potential, Solar Energy, Volume 271, 2024, 112425			0.166
XXIV.		Stefu, Nicoleta; Paulescu, Marius; Gravila, Paul; <u>Paulescu, E</u> ; Pop, N ; Boata, R, MODEL FOR THE UV BIOLOGICALLY EFFECTIVE DOSE AND APPLICATION UNDER FUTURE CLIMATE CONDITIONS, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL Volume: 16 Issue: 1 Pages: 225-234 Published: JAN 2017, DOI:10.30638/eemj.2017.024	1	6	0.166

	1	Hao, Xiuping; Zhao, Changsen; Liu, Changming; et al., ASSESSMENT OF WATER RELATED ECOLOGICAL SECURITY UNDER CHANGING ENVIRONMENT IN CHINA ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL Volume: 17 Issue: 6 Pages: 1399-1410 Published: JUN 2018	0.166
--	---	---	-------

XXV		M. PAULESCU, N. POP, N. STEFU, E. PAULESCU, R. BOATA, D. CALINOIU, SEASONAL MODELING OF HOURLY SOLAR IRRADIATION SERIES, Romanian Journal of Physics 62, Issue 7-8, 813 (2017)	2	5.5	0.362
	1	Article II. Pop, N ; Beiu, R; Svera, P ; Mnerie, C; Hutiu, G; Duma, VF , THERMAL DEGRADATION OF PHOTOVOLTAIC PANELS: EVALUATIONS USING A RANGE OF TESTING METHODS, JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY, Volume21 Issue6, Page2083-2092			0.181
	2	Ahzam Shadab, Shamshad Ahmad, Saif Said, Spatial forecasting of solar radiation using ARIMA model, Remote Sensing Applications: Society and Environment, Volume 20, 2020, 100427			0.181

XXVI.		Calinoiu, Delia; Stefu, Nicoleta; Boata, Remus; ; Blaga, R ; Pop, N ; Paulescu, E ; Sabadus, A ; Paulescu, M, Parametric modeling: A simple and versatile route to solar irradiance, ENERGY CONVERSION AND MANAGEMENT Volume: 164 Pages: 175-187 Published: MAY 15 2018, DOI10.1016/j.enconman.2018.02.077	18	6.5	2.769
	1	Luque, Enric Grau; Antonanzas-Torres, Fernando; Escobar, Rodrigo, Effect of soiling in bifacial EPV modules and cleaning schedule optimization, ENERGY CONVERSION AND MANAGEMENT Volume: 174 Pages: 615-625 Published: OCT 15 2018			0.153
	2	Sun, Xixi; Bright, Jamie M.; Gueymard, Christian A.; et al., Worldwide performance assessment of 75 global clear-sky irradiance models using Principal Component Analysis, RENEWABLE & SUSTAINABLE ENERGY REVIEWS Volume: 111 Pages: 550-570 Published: SEP 2019			0.153
	3	Blaga, Robert , The impact of temporal smoothing on the accuracy of separation models, SOLAR ENERGY Volume: 191 Pages: 371-381 Published: OCT 2019			0.153
	4	Feng, Yu; Gong, Daozhi; Jiang, Shouzheng; et al., National-scale development and calibration of empirical models for predicting daily global solar radiation in China, ENERGY CONVERSION AND MANAGEMENT Volume: 203 Article Number: 112236 Published: JAN 1 2020			0.153
	5	Feng, Yu; Hao, Weiping; Li, Haoru; et al., Machine learning models to quantify and map daily global solar radiation and photovoltaic power, RENEWABLE & SUSTAINABLE ENERGY REVIEWS Volume: 118 Article Number: 109393 Published: FEB 2020			0.153

	6	Gueymard, Christian A.; Yang, Dazhi , Worldwide validation of CAMS and MERRA-2 reanalysis aerosol optical depth products using 15 years of AERONET observations, ATMOSPHERIC ENVIRONMENT Volume: 225 Article Number: 117216 Published: MAR 15 2020	0.153		
	7	Habte, Aron; Sengupta, Manajit; Gueymard, Christian; et al., Long-term spatial and temporal solar resource variability over America using the NSRDB version 3 (1998-2017), RENEWABLE & SUSTAINABLE ENERGY REVIEWS Volume: 134 Article Number: 110285 Published: DEC 2020	0.153		
	8	Sun, XX ; Bright, JM ; Gueymard, CA ; Bai, XY ; Acord, B ; Wang, P, Worldwide performance assessment of 95 direct and diffuse clear-sky irradiance models using principal component analysis, RENEWABLE & SUSTAINABLE ENERGY REVIEWS, Volume135, Article Number110087, PublishedJAN 2021	0.153		
	9	Ben Ammar, M (Ben Ammar, Mohsen) [1] ; Ben Ammar, R (Ben Ammar, Rim) [2] ; Oualha, A, Photovoltaic Power Prediction for Solar Car Park Lighting Office Energy Management, JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME, Volume143, Issue3, Article Number031303, PublishedMAR 1 2021	0.153		
	10	Blaga, R ; Calinoiu, D ; Paulescu, M, A one-parameter family of clear-sky solar irradiance models adapted for different aerosol types, JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY, Volume13, Issue2, Article Number023701, PublishedMAR 2021	0.153		
	11	Ruiz-Arias, JA, Aerosol transmittance for clear-sky solar irradiance models: Review and validation of an accurate universal parameterization, RENEWABLE & SUSTAINABLE ENERGY REVIEWS, Volume145, Article Number111061, PublishedJUL 2021	0.153		
	12	Almorox, J ; Voyant, C ; Bailek, N ; Kuriqi, A ; Arnaldo, JA, Total solar irradiance's effect on the performance of empirical models for estimating global solar radiation: An empirical-based review, ENERGY, Volume236, Article Number121486, PublishedDEC 1 2021	0.153		
	13	Arumugham, DR ; Rajendran, P, Modelling global solar irradiance for any location on earth through regression analysis using high-resolution data, RENEWABLE ENERGY, Volume180, Page1114-1123, PublishedDEC 2021	0.153		
	14	Ruiz-Arias, JA , Spectral integration of clear-sky atmospheric transmittance: Review and worldwide performance, RENEWABLE & SUSTAINABLE ENERGY REVIEWS 161, Jun 2022	0.153		
	15	Wu, ZJ ; Cui, NB ; Gong, DZ ; Zhu, FY, [3] ; Li, YL ; Xing, LW ; Wang, ZH ; Zhu, B ; Chen, X; Wen, SL; Predicting daily global solar radiation in various climatic regions of China based on hybrid support vector machines with meta-heuristic algorithms, JOURNAL OF CLEANER PRODUCTION, Volume385, Article Number135589, DOI10.1016/j.jclepro.2022.135589, PublishedJAN 20 2023, Early AccessDEC 2022	0.153		
	16	Li, Q.; Bessafi, M.; Li, P. Mapping Prediction of Surface Solar Radiation with Linear Regression Models: Case Study over Reunion Island. Atmosphere 2023, 14, 1331. https://doi.org/10.3390/atmos14091331	0.153		
	17	José A. Ruiz-Arias, SPARTA: Solar parameterization for the radiative transfer of the cloudless atmosphere, Renewable and Sustainable Energy Reviews, Volume 188, 2023,113833	0.153		
	18	Jia, S ; Wu, KS ; Chen, Q ; Li, YB, Multi-source irradiance field reconstruction and optimization design based on feature analysis, APPLIED OPTICS 2026 Vol 65, Issue 7, Page 2141-2150, DOI:10.1364/AO.585760	0.153		
XXVII.	Paulescu, Eugenia; Blaga, Robert, A simple and reliable empirical model with two predictors for estimating 1-minute diffuse fraction,		31	2	15.5

	SOLAR ENERGY Volume: 180 Pages: 75-84 Published: MAR 1 2019, DOI:10.1016/j.solener.2019.01.029			
1	Bright, Jamie M.; Engerer, Nicholas A., Engerer2: Global re-parameterisation, update, and validation of an irradiance separation model at different temporal resolutions, JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY Volume: 11 Issue: 3 Article Number: 033701 Published: MAY 2019			0.5
2	Blaga, Robert , The impact of temporal smoothing on the accuracy of separation models, SOLAR ENERGY Volume: 191 Pages: 371-381 Published: OCT 2019			0.5
3	Campana, Pietro Elia; Landelius, Tomas; Andersson, Sandra; et al., A gridded optimization model for photovoltaic applications , SOLAR ENERGY Volume: 202 Pages: 465-484 Published: MAY 15 2020			0.5
4	Yang, DZ ; Gueymard, CA, Ensemble model output statistics for the separation of direct and diffuse components from 1-min global irradiance, SOLAR ENERGY, Volume208, Page591-603, PublishedSEP 15 2020			0.5
5	Claywell, R; Nadai, L ; Felde, I ; Ardabili, S ; Mosavi, A, Adaptive Neuro-Fuzzy Inference System and a Multilayer Perceptron Model Trained with Grey Wolf Optimizer for Predicting Solar Diffuse Fraction, ENTROPY, Volume22, Issue11, Article Number1192, PublishedNOV 2020			0.5
6	Hassan, MA ; Abubakr, M ; Khalil, A, A profile-free non-parametric approach towards generation of synthetic hourly global solar irradiation data from daily totals, RENEWABLE ENERGY, Volume167, Page613-628, PublishedAPR 2021			0.5
7	Hassan, MA ; Akoush, BM ; Abubakr, M ; Campana, PE ; Khalil, A, High-resolution estimates of diffuse fraction based on dynamic definitions of sky conditions, RENEWABLE ENERGY, Volume169, Page641-659, PublishedMAY 2021			0.5
8	Blaga, R ; Calinoiu, D ; Paulescu, M, A one-parameter family of clear-sky solar irradiance models adapted for different aerosol types, JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY, Volume13, Issue2, Article Number023701, PublishedMAR 2021			0.5
9	Starke, AR ; Lemos, LFL ; Barni, CM ; Machado, RD ; Cardemil, JM ; Boland, J ; Colle, S, Assessing one-minute diffuse fraction models based on worldwide climate features, RENEWABLE ENERGY, Volume177, Page700-714, PublishedNOV 2021			0.5
10	Miranda, E ; Fierro, JFG ; Narvarz, G ; Giraldo, LF ; Bressan, M, Prediction of site-specific solar diffuse horizontal irradiance from two input variables in Colombia, HELIYON, Volume7, Issue12, Article Numbere08602, PublishedDEC 2021			0.5
11	Yang, DZ, Estimating 1-min beam and diffuse irradiance from the global irradiance: A review and an extensive worldwide comparison of latest separation models at 126 stations, RENEWABLE & SUSTAINABLE ENERGY REVIEWS 159, May 2022			0.5
12	Song, Z; Wang, M and Yang, HX, Quantification of the Impact of Fine Particulate Matter on Solar Energy Resources and Energy Performance of Different Photovoltaic Technologies, ACS ENVIRONMENTAL AU 2022, Vol 2 Issue 3, page 275-286			0.5
13	Tavares, AM ; Conceicao, R ; Lopes, FM ; Silva, HG, Development of a Simple Methodology Using Meteorological Data to Evaluate Concentrating Solar Power Production Capacity, ENERGIES, Volume15, Issue20, Article Number7693, DOI10.3390/en15207693, PublishedOCT 2022			0.5



14	Fernando M. Nollas, German A. Salazar, Christian A. Gueymard, Quality control procedure for 1-minute pyranometric measurements of global and shadowband-based diffuse solar irradiance, Renewable Energy, Volume 202, 2023, Pages 40-55	0.5
15	Roy, A., Ramanan, A., Kumar, B. et al. Development of a day-ahead solar power forecasting model chain for a 250 MW PV park in India. Int J Energy Environ Eng 14, 973–989 (2023). https://doi.org/10.1007/s40095-023-00560-6	0.5
16	Eduardo Rodríguez, Lorena Cornejo-Ponce, José M. Cardemil, Allan R. Starke, Enrique López Droguett, Estimation of one-minute direct normal irradiance using a deep neural network for five climate zones, Renewable and Sustainable Energy Reviews, Volume 183, 2023, 113486	0.5
17	Manni, M ; Thorning, JK ; Jouttijärvi, S ; Miettunen, K ; Di Sabatino, M ; Lobaccaro, G , Horizontal-to-tilt irradiance conversion for high-latitude regions: a review and meta-analysis, FRONTIERS IN BUILT ENVIRONMENT, Volume9 (2023) DOI10.3389/fbuil.2023.1245223 Article Number 1245223	0.5
18	Mattia Manni, Sami Jouttijärvi, Samuli Ranta, Kati Miettunen, Gabriele Lobaccaro, Validation of model chains for global tilted irradiance on East-West vertical bifacial photovoltaics at high latitudes, Renewable Energy, Volume 220,2024, 119722	0.5
19	Yinghao Chu, Dazhi Yang, Hanxin Yu, Xin Zhao, Mengying Li, Can end-to-end data-driven models outperform traditional semi-physical models in separating 1-min irradiance?, Applied Energy, Volume 356, 2024, 122434	0.5
20	Robert Blaga, Delia Calinoiu, Marius Paulescu, A methodology for realistic estimation of the aerosol impact on the solar potential, Solar Energy, Volume 271, 2024, 112425	0.5
21	Kalingga Titon Nur Ihsan, Hideaki Takenaka, Atsushi Higuchi, Anjar Dimara Sakti, Ketut Wikantika, Solar irradiance variability around Asia Pacific: Spatial and temporal perspective for active use of solar energy, Solar Energy, Volume 276, 2024, 112678	0.5
22	José A. Ruiz-Arias, Christian A. Gueymard, Solar irradiance component separation benchmarking: The critical role of dynamically-constrained sky conditions, Renewable and Sustainable Energy Reviews, Volume 202, 2024,114678	0.5
23	Implementation and validation of virtual clones of coloured building-integrated photovoltaic facades, Manni, M ; Melkert, T (Melkert, Tom) ; Lobaccaro, G ; Jelle, BP , APPLIED ENERGY, Volume378 PartA Article Number 124845, JAN 2025	0.5
24	Performance variability of solar irradiance model chains applied to building-integrated photovoltaic systems at high latitudes, Manni, M ; Nocente, A; Lobaccaro, G ; SOLAR ENERGY, Volume282, Article Number 112924, NOV 2024	0.5
25	Enhancing the estimation of direct normal irradiance for six climate zones through machine learning models, Rodríguez, E ; Droguett, EL ; Cardemil, JM ; Starke, AR ; Cornejo-Ponce, L, RENEWABLE ENERGY, Volume231, Article Number 120925,SEP 2024	0.5
26	Machine learning potentials for global multi-timescale diffuse irradiance estimation: Synthesizing ground observations, time-series, and environmental features, Wang, NN; Yue, ZJ; Liu, YL ; Liu, YF; ENERGY, Volume306, Article Number 132535,OCT 2024	0.5
27	Yin, KL ; Zhang, XJ ; Xie, JC ; Yang, HC ; Tan, JJ ; Lin, F ; Liu, JP, Modeling of longwave radiation on coastal building façades based on field measurements, BUILDING AND ENVIRONMENT, Volume287 PartB, DOI10.1016/j.buildenv.2025.113859, Article Number113859, Published JAN 1 2026	0.5

	28	Ruiz-Arias, JA; Dominguez, E; Gueymard, CA, Comparison of conventional and simple artificial neural network models for high-performance separation of global solar irradiance components at minutely resolution, SOLAR ENERGY, Volume301, DOI10.1016/j.solener.2025.113878, Article Number 113878, Published NOV 15 2025			0.5
	29	Musleh, YJK ; Boden, SA ; Rahman, T, Benchmarking framework for decomposition models in solar irradiance estimation within a temperate climate, MEASUREMENT, Volume257 PartB, DOI10.1016/j.measurement.2025.118636, Article Number 118636, Published JAN 15 2026			0.5
	30	Musleh, YJK and Gueymard, CA, Advancing reverse transposition irradiance modelling across diverse climates with a novel honeycomb-inspired approach, Solar Energy 2026, Vol 311, 114525, DOI:10.1016/j.solener.2026.114525			0.5
	31	Mayer, MJ; Yang, DZ and Markovics, D, Quality and economic value of operational photovoltaic power forecasts in the day-ahead market, ENERGY CONVERSION AND MANAGEMENT 2026, Vol 358, 121451, DOI10.1016/j.enconman.2026.121451			0.5
XXVIII.	Paulescu Marius, Paulescu Eugenia, Short-term forecasting of solar irradiance, Renewable Energy, Vol. 143, 2019, 985-994, DOI: 10.1016/j.renene.2019.05.075		39	2	19.5
	1	Diez, Francisco J.; Navas-Gracia, Luis M.; Chico-Santamarta, Leticia; et al., Prediction of Horizontal Daily Global Solar Irradiation Using Artificial Neural Networks (ANNs) in the Castile and Leon Region, Spain, AGRONOMY-BASEL Volume: 10 Issue: 1 Article Number: 96 Published: JAN 2020			0.5
	2	Magalhaes, Regina; Costa, Luis; Martin-Lopez, Sonia; et al., Long-Range Distributed Solar Irradiance Sensing Using Optical Fibers, SENSORS Volume: 20 Issue: 3 Article Number: 908 Published: FEB 2020			0.5
	3	Meng, Ming; Song, Chenge , Daily Photovoltaic Power Generation Forecasting Model Based on Random Forest Algorithm for North China in Winter, SUSTAINABILITY Volume: 12 Issue: 6 Article Number: 2247 Published: MAR 2 2020			0.5
	4.	Hartmann, B, Comparing various solar irradiance categorization methods - A critique on robustness, RENEWABLE ENERGY, Volume154, Page661-671, PublishedJUL 2020			0.5
	5.	Huynh, ANL ; Deo, RC ; An-Vo, DA; Ali, M ; Raj, N ; Abdulla, S, Near Real-Time Global Solar Radiation Forecasting at Multiple Time-Step Horizons Using the Long Short-Term Memory Network, ENERGIES, Volume13, Issue14, Article Number3517, PublishedJUL 2020			0.5
	6.	Vaisakh, T ; Jayabarathi, R, Analysis on intelligent machine learning enabled with meta-heuristic algorithms for solar irradiance prediction, EVOLUTIONARY INTELLIGENCE, Volume15, Issue1, Page235-254, PublishedMAR 2022Oct2020 (Early Access)			0.5
	7.	Puah, BK ; Chong, LW ; Wong, YW ; Begam, KM ; Khan, N ; Juman, MA ; Rajkumar, RK, A regression unsupervised incremental learning algorithm for solar irradiance prediction, RENEWABLE ENERGY, Volume164, Page908-925, PublishedFEB 2021			0.5
	8.	Alvarez-Alvarado, JM ; Rios-Moreno, JG ; Obregon-Biosca, SA ; Ronquillo-Lomeli, G ; Ventura-Ramos, E ; Trejo-Perea, M, Hybrid Techniques to Predict Solar Radiation Using Support Vector Machine and Search Optimization Algorithms: A Review, APPLIED SCIENCES-BASEL, Volume11, Issue3, Article Number1044, PublishedFEB 2021			0.5
	9.	Singla, P ; Duhan, M ; Saroha, S, A comprehensive review and analysis of solar forecasting techniques, FRONTIERS IN ENERGY, DOI10.1007/s11708-021-0722-7, Early AccessMAR 2021			0.5

10.	Rodriguez, F ; Martin, F ; Fontan, L ; Galarza, A, Ensemble of machine learning and spatiotemporal parameters to forecast very short-term solar irradiation to compute photovoltaic generators' output power, ENERGY, Volume229, Article Number120647, PublishedAUG 15 2021	0.5
11.	Samu, R ; Calais, M ; Shafiullah, GM ; Moghbel, M ; Shoeb, MA ; Nouri, B ; Blum, N, Applications for solar irradiance nowcasting in the control of microgrids: A review, RENEWABLE & SUSTAINABLE ENERGY REVIEWS, Volume147, Article Number111187, PublishedSEP 2021	0.5
12.	Wang, LH ; Shi, JR, A Comprehensive Application of Machine Learning Techniques for Short-Term Solar Radiation Prediction, APPLIED SCIENCES-BASEL, Volume11, Issue13, Article Number5808, PublishedJUL 2021	0.5
13.	Cha, J ; Kim, MK ; Lee, S ; Kim, KS, Investigation of Applicability of Impact Factors to Estimate Solar Irradiance: Comparative Analysis Using Machine Learning Algorithms, APPLIED SCIENCES-BASEL, Volume11, Issue18, Article Number8533, PublishedSEP 2021	0.5
14.	Madhiarasan, M ; Louzazni, M ; Roy, PP, Novel Cooperative Multi-Input Multilayer Perceptron Neural Network Performance Analysis with Application of Solar Irradiance Forecasting, INTERNATIONAL JOURNAL OF PHOTOENERGY, Volume2021, Article Number7238293, PublishedOCT 27 2021	0.5
15.	Zuo, HM; Qiu, J; Jia, YH ; Wang, Q; Li, FF, Ten-minute prediction of solar irradiance based on cloud detection and a long short-term memory (LSTM) model, ENERGY REPORTS 8 , pp.5146-5157, Nov 2022	0.5
16.	Paulescu, M ; Stefu. N ; Dughir, C ; Sabadus, A ; Calinoiu, D; Badescu, V, A simple but accurate two-state model for nowcasting PV power, RENEWABLE ENERGY, Volume195,Page322-330, Published AUG 2022	0.5
17.	Krechowicz, A ; Krechowicz, M; Poczeta, K; Machine Learning Approaches to Predict Electricity Production from Renewable Energy Sources ENERGIES, Volume15, Issue23, Article Number9146, DOI10.3390/en15239146, PublishedDEC 2022	0.5
18.	Jose Ramirez-Vergara, Lisa B. Bosman, Ebisa Wollega, Walter D. Leon-Salas, Review of forecasting methods to support photovoltaic predictive maintenance, Cleaner Engineering and Technology, Volume 8, 2022,100460	0.5
19.	Hategan, S.-M.; Stefu, N.; Paulescu, M. Calibration of GFS Solar Irradiation Forecasts: A Case Study in Romania. Energies 2023, 16, 4290. https://doi.org/10.3390/en16114290	0.5
20.	Sharma, N., Puri, V., Mahajan, S. et al. Solar power forecasting beneath diverse weather conditions using GD and LM-artificial neural networks. Sci Rep 13, 8517 (2023). https://0610unjam-y-https-doi-org.z.e-nformation.ro/10.1038/s41598-023-35457-1	0.5
21.	Marius Paulescu, Robert Blaga, Ciprian Dughir, Nicoleta Stefu, Andreea Sabadus, Delia Calinoiu, Viorel Badescu, Intra-hour PV power forecasting based on sky imagery, Energy, Volume 279, 2023, 128135	0.5
22.	Felix, Ruben, Sayas, Leonidas , A Method to Synthesize Hourly Time-series of Solar Power Plants in Peru for Long-Term Planning, RENEWABLE ENERGY RESEARCH AND APPLICATIONS Volume 4, Issue 2, (2023) pag 171-181, DOI10.22044/rera.2022.12305.1173	0.5
23.	Chodakowska, E.; Nazarko, J.; Nazarko, Ł.; Rabayah, H.S.; Abendeh, R.M.; Alawneh, R. ARIMA Models in Solar Radiation Forecasting in Different Geographic Locations. Energies 2023, 16, 5029. https://doi.org/10.3390/en16135029	0.5

24.	I. M. L. Pataro, J. D. Gil, M. V. Americano da Costa, L. Roca, J. L. Guzmán and M. Berenguel, "A Stochastic Nonlinear Predictive Controller for Solar Collector Fields Under Solar Irradiance Forecast Uncertainties," in IEEE Transactions on Control Systems Technology, vol. 32, no. 1, pp. 99-111, Jan. 2024, doi: 10.1109/TCST.2023.3298230.	0.5
25.	Hategan, S.-M.; Stefu, N.; Paulescu, M. An Ensemble Approach for Intra-Hour Forecasting of Solar Resource. Energies 2023, 16, 6608. https://doi.org/10.3390/en16186608	0.5
26.	Bouquet, P., Jackson, I., Nick, M., & Kaboli, A. (2023). AI-based forecasting for optimised solar energy management and smart grid efficiency. International Journal of Production Research, 62(13), 4623–4644. https://doi.org/10.1080/00207543.2023.2269565	0.5
27.	Eniko Szilagyi, Dorin Petreus, Marius Paulescu, Toma Patarau, Sergiu-Mihai Hategan, Nicolae Alexandru Sarbu, Cost-effective energy management of an islanded microgrid, Energy Reports, Volume 10 (2023) Pages 4516-4537	0.5
28.	Saravanan, A ; Farook, S; Kathir, I; Garapati, DP ; Padmashini, RK ; Logeswaran, T ; Sathyamurthy, R ; Rajaram, A , Adaptive Solar Power Generation Forecasting using Enhanced Hybrid Function Networks with Weather Modulation, INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH . Volume14 Issue2 (2024) Page275-292	0.5
29.	Hourly Solar Irradiance Forecasting Using Long Short Term Memory and Convolutional Neural Networks, Bouadjila, T ; Khelil, K ; Rahem, D ; Berrezek, F , SMART GRIDS AND SUSTAINABLE ENERGY, Volume9 Issue2, Article Number 38, OCT 2024	0.5
30.	A novel U-LSTM-AFT model for hourly solar irradiance forecasting, Zhu, LY ; Huang, XQ ; Zhang, ZB ; Li, CL ; Tai, YH , RENEWABLE ENERGY, Volume238, Article Number 121955, JAN 2025	0.5
31.	ADVANCES IN SOLAR RADIATION ESTIMATION TECHNIQUES: A COMPREHENSIVE REVIEW, Yesil, FN ; Serttas, TN ;ADVANCES IN ELECTRICAL AND ELECTRONIC ENGINEERING, Volume22 Issue4 Page308-334, DEC 2024	0.5
32.	Predictive maintenance based on anomaly detection in photovoltaic system using SCADA data and machine learning, Syamsuddin, A; Adhi, AC ; Kusumawardhani, A ; Prahasto, T ; Widodo, A RESULTS IN ENGINEERING, Volume24, Article Number 103589, DEC 2024	0.5
33.	Short-term forecasting of PV power based on aggregated machine learning and sky imagery approaches, Hategan, SM; Stefu, N ; Petreus, D ; Szilagyi, E ; Patarau, T ; Paulescu, M ; ENERGY, Volume316, Article Number 134595, FEB 2025	0.5
34.	Merging machine learning sky imaging methods with the two-state model in photovoltaic power nowcasting, Hategan, SM ; Paulescu, M ; JAPANESE JOURNAL OF APPLIED PHYSICS, Volume64 Issue3, Article Number 03SP35, MAR 1 2025	0.5
35.	Parametric Forecast of Solar Energy over Time by Applying Machine Learning Techniques: Systematic Review, Mucomole, FV ; Silva, CAS ; Magaia, LL , ENERGIES, Volume18 Issue6, Article Number 1460, MAR 2025	0.5
36.	Very short-term solar irradiance forecasting based on open-source low-cost sky imager and hybrid deep-learning techniques, Ansong, M ; Huang, G ; Nyang'onda, TN ; Musembi, RJ ; Richards, BS ; SOLAR ENERGY, Volume294, Article Number 113516, JUL 2025	0.5
37.	Ansong, M; Amakali, AM ; Nyang'onda, TN ; Musembi, RJ; Dobрева, P ; Richards, BS, Improving sky image-based short-term solar irradiance forecasting through the integration of meteorological data, ENERGY REPORTS, Volume14 Page 4111-4124, DOI10.1016/j.egy.2025.11.027, Published DEC 2025	0.5

	38.	Oruç, S ; Hınıs, MA ; Tugrul, T, Forecasting photovoltaic power in high-latitude regions via support vector machine optimized by meta-heuristics, SCIENTIFIC REPORTS, Volume16 Issue1, DOI10.1038/s41598-025-33415-7 ,Article Number 3438 Published JAN 6 2026			0.5
	39.	Article III. Mbuli N, Exponential Smoothing Forecasting Techniques in Power Systems: A Systematic Literature Review of Recent Applications (2018-2024), INTERNATIONAL TRANSACTIONS ON ELECTRICAL ENERGY SYSTEMS 2026, Vol 2026, Issue 1, 8833254, DOI10.1155/etep/8833254			0.5
XXIX		Blaga, R ; Calinoiu, D; Stefu, N ; Boata, R; Sabadus, A ; Paulescu, E ; Pop, N ; Mares, O ; Bojin, S ; Paulescu, M, Quantification of the aerosol-induced errors in solar irradiance modeling, METEOROLOGY AND ATMOSPHERIC PHYSICS 2021, Volume133, Issue4, Page1395-1407, DOI:10.1007/s00703-021-00815-z	5	7.5	0.666
	1	Lappalainen, K; Piliouline, M and Spagnuolo, G, Experimental comparison between various fitting approaches based on RMSE minimization for photovoltaic module parametric identification, ENERGY CONVERSION AND MANAGEMENT 258, Apr 15 2022			0.133
	2	José A. Ruiz-Arias, Christian A. Gueymard, GISPLIT: High-performance global solar irradiance component-separation model dynamically constrained by 1-min sky conditions, Solar Energy, Volume 269 (2024)112363			0.133
	3	Changes in Anthropogenic Aerosols during the First Wave of COVID-19 Lockdowns in the Context of Long-Term Historical Trends at 51 AERONET Stations, Blaga, R ; Calinoiu, D; Trif-Tordai, G , REMOTE SENSING, Volume16 Issue19, Article Number 3618, OCT 2024			0.133
	4	A Second Tutorial Review of the Solar Power Curve: Applications in Energy Meteorology, Yang, DZ ; Liu, B ; Zhang, H ; Xia, XA ; Shen, YB ; Mayer, MJ , ADVANCES IN ATMOSPHERIC SCIENCES, Volume42 Issue2 Page269-296 Special IssueSI, FEB 2025, DOI10.1007/s00376-024-4214-7			0.133
	5	Influence of Temporal Representativeness of Satellite Aerosol Products on Direct Aerosol Radiative Effects, Yang, XY; Zhang, M ; Wang, LC ; Qin, WM , IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, Volume63, Article Number 4106215, 2025			0.133
XXX		Paulescu, E ; Paulescu, M , A new clear sky solar irradiance model, RENEWABLE ENERGY, Volume179, Page2094-2103, Published DEC 2021, DOI10.1016/j.renene.2021.08.029	9	2	4.5
	1	Ruiz-Arias, JA, Spectral integration of clear-sky atmospheric transmittance: Review and worldwide performance, RENEWABLE & SUSTAINABLE ENERGY REVIEWS 161, Jun 2022			0.5
	2	Hategan SM, Paulescu M, Spectral Factor of Colored Solar Cells: A Case Study on the Main Urban Areas in Romania, INTERNATIONAL JOURNAL OF PHOTOENERGY, Volume2022, Article Number8494818, DOI10.1155/2022/8494818, PublishedAUG 27 2022			0.5
	3	Pranda M.P. Garniwa, Hyunjin Lee, Intercomparison of the parameterized Linke turbidity factor in deriving global horizontal irradiance, Renewable Energy, Volume 212 (2023) Pages 285-298			0.5
	4	Manal Yasmine Boudjella, Ahmed Hafid Belbachir, Samy Anis Amine Dib, Mustapha Meftah, Calculation of surface spectral irradiance using the Geant4 Monte Carlo toolkit, Journal of Atmospheric and Solar-Terrestrial Physics, Volume 248 (2023)106077			0.5
	5	José A. Ruiz-Arias, SPARTA: Solar parameterization for the radiative transfer of the cloudless atmosphere, Renewable and Sustainable Energy Reviews, Volume 188 (2023)113833.			0.5

	6	A Geant4 Monte Carlo toolkit-based radiative transfer model for studying the impact of aerosols, Boudjella, MY ; Belbachir, AH; Dib, ASA ; Meftah, M , ADVANCES IN SPACE RESEARCH, Volume75 Issue1 Page74-90,JAN 2025	0.5
	7	Quantifying and Mitigating Errors in Estimating Downward Surface Shortwave Radiation Caused by Cloud Mask Data, Wang, LC ; Lang, Q ; Wang, ZT ; Feng, L ; Zhang, M ; Qin, WM , IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, Volume62, Article Number 4107715, 2024	0.5
	8	Exploring Options for the Application of Azobenzene for Molecular Solar Thermal Energy Storage: Integration with Parabolic Trough Solar Systems, Zhang, L ; Guo, CC ; Zhang, YZ ; Wang, HF ; Liu, WJ ; Jin, J ; Guo, SP ; Cuce, E , ENERGIES, Volume18 Issue9, Article Number 2298, APR 2025	0.5
	9	Evaluation of infrared radiations from top of the atmosphere through artificial neural network modeling, Yousufzai, UA; Iqbal, MJ and Afridi, FK, JOURNAL OF THERMAL ENGINEERING 2026, Vol 12, Issue 1, Page 72-87, DOI:10.14744/thermal.0001059	0.5

XXXI	Paulescu E; Paulescu M, A Semi-Analytical Model for Separating Diffuse and Direct Solar Radiation Components, Appl. Sci. 2022, Vol 12, Issue 24, 12759, DOI10.3390/app122412759		1	2	0.5
	1	Yang, WW ; Wang, BZ; Ke, W ; Shen, SY; Wu, X, Research on Photovoltaic Power Generation Characteristics of Small Ocean Observation Unmanned Surface Vehicles, Energies 2024, Vol 17, Issue 15, 3699, DOI:10.3390/en17153699			0.5

XXXII	Paulescu E; Paulescu M, Minute-Scale Models for the Diffuse Fraction of Global Solar Radiation Balanced between Accuracy and Accessibility, Appl. Sci. 2023, 13(11), 6558, DOI10.3390/app13116558		7	2	3.5
	1	Adilson Pacheco de Souza,Tamara Zamadei, Daniela Roberta Borella, Charles Campoe Martim, Frederico Terra de Almeida, João Francisco Escobedo, Diurnal Evolution and Estimates of Hourly Diffuse Radiation Based on Horizontal Global Radiation, in Cerrado-Amazon Transition, Brazil, Atmosphere 2023, 14(8), 1289, DOI:10.3390/atmos14081289			0.5
	2	José A. Ruiz-Arias, Christian A. Gueymard, Solar irradiance component separation benchmarking: The critical role of dynamically-constrained sky conditions, Renewable and Sustainable Energy Reviews, Volume 202 (2024) 114678, DOI:10.1016/j.rser.2024.114678			0.5
	3	Reconstructing 10-km-resolution direct normal irradiance dataset through a hybrid algorithm, Wu, JY ; Niu, JY ; Qi, QH ; Gueymard, CA ; Wang, LC ; Qin, WM ; Zhou, ZG , RENEWABLE & SUSTAINABLE ENERGY REVIEWS, Volume204, Article Number 114805, OCT 2024, DOI:10.1016/j.rser.2024.114805			0.5

	4	Adigun, P ; Dairaku, K ; Ebiendele, P , Physics-constrained deep learning bias correction of CMIP6 solar radiation over Africa and its implications for solar power planning in a changing climate, RENEWABLE ENERGY, Volume256 Part1 DOI:10.1016/j.renene.2025.124658 ,Article Number 124658, Published JAN 1 2026	0.5
	5	Anderson, T ; Lohani, SP ,Determining Diffuse Solar Irradiance: A Comparison of Single and Multiparameter Separation Models for Nepal, JOURNAL OF SOLAR ENERGY ENGINEERING-TRANSACTIONS OF THE ASME, Volume147 Issue5, DOI:10.1115/1.4068814, Article Number 054501, Published OCT 1 2025	0.5
	6	Ruiz-Arias, JA ; Dominguez, E ; Gueymard, CAComparison of conventional and simple artificial neural network models for high-performance separation of global solar irradiance components at minutely resolution, Solar Energy 2025, Vol 301, 113878, DOI:10.1016/j.solener.2025.113878	0.5
	7	Atmani, H; Bouzgou, H and Gueymard, CA, Information-theoretic deep learning component separation from forecasted global horizontal irradiance, Solar Energy 2026, Vol 312, 114621, DOI:10.1016/j.solener.2026.114621	0.5

XXXIII	Sabadus A; Blaga R; Hategan SM; Calinoiu D; Paulescu E; Mares O; Boata R; Stefu N; Paulescu M; Badescu V, A cross-sectional survey of deterministic PV power forecasting: Progress and limitations in current approaches, RENEWABLE ENERGY 2024, Vol 226, 120385, DOI:10.1016/j.renene.2024.120385		33	7.5	4.4
	1	Sadowska, G; Cholewa, T; Nizetic, S; Papaefthimiou, S; Balaras, CA; Arici, M, On real energy model of photovoltaic systems: Creation and validation, ENERGY CONVERSION AND MANAGEMENT, Volume 315, 118810, DOI:10.1016/j.enconman.2024.118810			0.133
	2	Gao, J; Su, X; Kim, C; Cao, KR; Jung, H, A Parallel Prediction Model for Photovoltaic Power Using Multi-Level Attention and Similar Day Clustering, ENERGIES, Volume 17(16) (2024) 3958, DOI:10.3390/en17163958			0.133
	3	Talaat, FM; Kabeel, AE and Shaban, WM, The role of utilizing artificial intelligence and renewable energy in reaching sustainable development goals, RENEWABLE ENERGY, Volume235, Article Number 121311, 2024, DOI10.1016/j.renene.2024.121311			0.133
	4	Quan, R; Qiu, ZZ; Wan, H ; Yang, ZY ; Li, XR , Dung beetle optimization algorithm-based hybrid deep learning model for ultra-short-term PV power prediction, ISCIENCE, Volume27(11), 111126, 2024, DOI:10.1016/j.isci.2024.111126			0.133
	5	Taheri, N and Tucci, M, Enhancing Regional Wind Power Forecasting through Advanced Machine-Learning and Feature-Selection, ENERGIES, Volume17 Issue21, 2024 DOI:10.3390/en17215431			0.133
	6	Choi, J ; Son, SW ; Lee, S ; Park, S ; Advancing global solar photovoltaic power forecasting with sub-seasonal climate outlooks, Renewable Energy 2024,Volume237PartC, 121803, DOI:10.1016/j.renene.2024.121803			0.133
	7	Bai, RX ; Li, JS ; Liu, JS; Shi, YT; He, SY ; Wei, W, Day-ahead photovoltaic power generation forecasting with the HWGC-WPD-LSTM hybrid model assisted by wavelet packet decomposition and improved similar day method, ENGINEERING SCIENCE AND TECHNOLOGY-AN INTERNATIONAL JOURNAL-JESTECH 2024, Vol 61,101889, DOI:10.1016/j.jestech.2024.101889			0.133

8	Rastgoo, R; Amjady, N ; Shah, R ; Muyeen, SM, A Diffusion-Based Probabilistic Ultra-Short-Term Solar Power Prediction Using the Sky Image Sequences, IEEE ACCESS 2025, Vol 13, Page149532-149553, DOI:10.1109/ACCESS.2025.3600713	0.133
9	Hategan, SM ; Stefu, N; Petreus, D ; Szilagyi, E ; Patarau, T ; Paulescu, M, Short-term forecasting of PV power based on aggregated machine learning and sky imagery approaches, ENERGY 2025, Vol 316, 134595, DOI:10.1016/j.energy.2025.134595	0.133
10	Hasnat, MA; Asadi, S and Alemazkoor, N, A graph attention network framework for generalized-horizon multi-plant solar power generation forecasting using heterogeneous data, Renewable Energy 2025, Vol 243, 122520, DOI:10.1016/j.renene.2025.122520	0.133
11	Liu, X ; Liu, QY; Feng, S; Ge, YY ; Chen, HR; Chen, CL, Novel model for medium to long term photovoltaic power prediction using interactive feature trend transformer, SCIENTIFIC REPORTS 2025, Vol 15 Issue 1, 6544, DOI:10.1038/s41598-025-90654-4	0.133
12	Hategan, SM and Paulescu, M, Merging machine learning sky imaging methods with the two-state model in photovoltaic power nowcasting, JAPANESE JOURNAL OF APPLIED PHYSICS 2025, Vol 64, Issue 3, Article Number 03SP35, DOI:10.35848/1347-4065/adb8f6	0.133
13	Liu, WC and Gai, M, PV-MLP: A lightweight patch-based multi-layer perceptron network with time-frequency domain fusion for accurate long-sequence photovoltaic power forecasting, Renewable Energy 2025, Vol 251, 123277, DOI:10.1016/j.renene.2025.123277	0.133
14	Zhang, LW ; Liu, LS ; Chen, WW ; Lin, ZH ; He, DW; Chen, J, Photovoltaic Power Generation Forecasting Based on Secondary Data Decomposition and Hybrid Deep Learning Model, Energies 2025, Vol 18 Issue 12, 3136, DOI:10.3390/en18123136	0.133
15	Li, FZ; Hong, D; Ma, JM ; Tian, ZB; Liang, HN; Guo, JW ; Wang, KS, 3D-PV: Enhancing PV power prediction by modeling spatial uncertainty under dynamic shading conditions, EXPERT SYSTEMS WITH APPLICATIONS 2025, Volume 296 PartA, 128869, DOI:10.1016/j.eswa.2025.128869	0.133
16	Zhang, RQ; Bu, SQ ; Li, GQ ; Qiu, J, Probabilistic prediction of photovoltaic power: A multi-task learning and large language model-based approach Renewable Energy 2026, Vol 256 Part C, 124004, DOI10.1016/j.renene.2025.124004	0.133
17	Wang, MY and Xiang, CY, Machine learning for power forecasting in BIPV and BAPV Systems: A review, JOURNAL OF BUILDING ENGINEERING 2025, Vol 113, 114117, DOI:10.1016/j.job.2025.114117	0.133
18	Xu, LH; Wan, H; Wang, JS ; Quan, R ; Chang, YF, A Multiscale Photovoltaic Power Forecasting Framework Using VMD and GRUFormer-Based Hybrid Deep Learning, SMART GRIDS AND SUSTAINABLE ENERGY 2025, Vol 10 Issue 3, 68, DOI:10.1007/s40866-025-00299-5	0.133
19	Wang, XG ; Liu, WJ ; Ni, JH ; Zhang, M, Sample-Wise Graph-Based Multivariate Short-Term PV Power Forecasting, IEEE TRANSACTIONS ON SUSTAINABLE ENERGY 2025, Vol 16, Issue 4, page: 3003-3014, DOI:10.1109/TSTE.2025.3576928	0.133
20	Naqvi, SKH; Chong, KT and Tayara, H, WBML-PV: Window-based machine learning for ultra-short-term photovoltaic power forecasting, IFAC JOURNAL OF SYSTEMS AND CONTROL 2025, Vol 34, 100342, DOI:10.1016/j.ifasc.2025.100342	0.133
21	Fang, L; He, B and Zhang, CG, A multi-module framework for enhanced day-ahead photovoltaic power forecasting considering input heterogeneity, EXPERT SYSTEMS WITH APPLICATIONS 2026, Vol 299, Part A, 129991, DOI:10.1016/j.eswa.2025.129991	0.133
22	Cong, Z; Chen, YT; Zhang, DX, Greedy compensatory agent based day-ahead photovoltaic power forecasting with a simplified deep Q-network, Renewable Energy 2026, Vol 256 Part H, 124616, DOI:10.1016/j.renene.2025.124616	0.133

	23	Shi, CJ ; Zhang, XY; Zhang, K ; Xie, XB ; Lu, QC ; Zhang, NX ; Su, ZB, Ultra-short-term photovoltaic power prediction based on ground-based cloud images: A review, APPLIED ENERGY 2025, Vol 402 Part A, 126943, DOI:10.1016/j.apenergy.2025.126943	0.133
	24	Kim, H; Jang, H and Kim, J, Two-Stage Machine Learning for Urban PV Generation Forecasting: Model Development and SHAP-Based Interpretation of Key Climatic Drivers, INTERNATIONAL JOURNAL OF THERMOPHYSICS 2025, Vol 47, Issue 1, Article Number 5, DOI:10.1007/s10765-025-03676-5	0.133
	25	Seman, LO ; Stefenon, SF; Yow, KC ; Coelho, LD ; Mariani, VC, Multi-step short-term solar energy forecasting using Fourier-enhanced BiLSTM and neural additive models, Renewable Energy 2026, Vol 257, 124738, DOI:10.1016/j.renene.2025.124738	0.133
	26	Zhao, JL; Liu, ZW; Ji, HR; Yu, L ; Yuanlv, Z ; Duan, SY ; Song, GY ; Yu, H; Li, P, Lightweight probability forecasting and local control of photovoltaic integrated with energy storage system in active distribution networks, Renewable Energy 2026, Vol 258, 124979, DOI:10.1016/j.renene.2025.124979	0.133
	27	Ye, L ; Ye, LL ; Wang, JJ ; Dang, YG ; Zhang, X, A novel hybrid ensemble forecasting method based on seasonal feature matching for photovoltaic power generation forecasting, EXPERT SYSTEMS WITH APPLICATIONS 2026, Vol 304, 130811, DOI:10.1016/j.eswa.2025.130811	0.133
	28	Quiles-Cucarella, E ; Agustí-Mercader, I ; Escrivá-Escrivá, G ; Roldán-Blay, C, Hybrid Methodology for Robust Forecasting of Photovoltaic Generation Using Physics-Based Exogenous Variables in Machine Learning, IEEE ACCESS, Vol 14, Page: 70996-71011, DOI:10.1109/ACCESS.2026.3691969	0.133
	29	Chen, YX ; Lin, CJ ; Wang, PZ ; Tian, XQ ; Zeng, SL ; Li, H ; Liu, JF; Yu, DR, An interpretable multi-site information selection and fusion method for short-term photovoltaic forecasting, Solar Energy 2026, Vol 305, 114240, DOI:10.1016/j.solener.2025.114240	0.133
	30	Jia, WJ ; Liu, KY ; Xu, JH ; Zhu, YP, A CEEMDAN-CNN-BiLSTM-SDQN Framework for Photovoltaic Power Forecasting: Integrating Multi-Scale Decomposition with Adaptive Reinforcement Learning Compensation, Energies 2026, Vol 19, Issue 7, DOI:10.3390/en19071649	0.133
	31	Zhou, YB ; Liu, ZH ; Cheng, Z ; Mi, HL ; Qin, ZY ; Cao, KYY, A Photovoltaic Power Prediction Method Based on Wavelet Convolutional Neural Networks and Improved Transformer, Energies 2026, Vol 19, Issue 9, DOI:10.3390/en19092040	0.133
	32	Kosmopoulos, P ; Dhake, H ; Gakou, E ; Melita, N ; Kashyap, Y, Similarity-based solar power forecasting: A technical advance for global energy systems, ENERGY AND AI, Vol 24, 100761, DOI:10.1016/j.egyai.2026.100761	0.133
	33	Article IV. Taheri, N; Piazzzi, A and Tucci, M, Exploring Data Availability, Time Horizons and Ensemble Learning for Regional Photovoltaic Power Forecasting, IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, Vol 62, Issue 3, Page4413-4425, DOI:10.1109/TIA.2025.3637695	0.133

XXXIV	Blaga R; Mares O; Paulescu E; Boata R; Sabadus A; Hategan SM; Calinoiu D; Stefu N; Paulescu M, Diffuse fraction as a tool for exploring the sensitivity of parametric clear-sky models to changing aerosol conditions, SOLAR ENERGY 2024, Volume 277, 112731, DOI:10.1016/j.solener.2024.112731	1	7	0.142
-------	---	---	---	-------

	1	Varga, G ; Gresina, F ; Gelencsér, A ; Csávic, A; Rostási, A, Saharan dust and cirrus clouds: Dominating indirect impact of dust events on photovoltaic energy generation in Hungary (2019-2024), Solar Energy 2026, Vol 307, 114385.			0.142
XXXV	Paulescu E; Velimirovici L; Paulescu M, Clear sky solar irradiance models derived through interdependent, RENEWABLE ENERGY 2025, Volume 250, 123371, DOI:10.1016/j.renene.2025.123371		2	3	0.666
	1	Collaborative Optimization of Cloud-Edge-Terminal Distribution Networks Combined with Intelligent Integration Under the New Energy Situation, Zhou, F; Wu, CP; (...); Sun, QY, Mathematics, 2025			0.333
	2	Regulation and optimization of virtual power plants considering reversible energy storage of electricity and hydrogen under the new energy situation, Ma, XL; Zhu, YM and Yang, J, ENGINEERING RESEARCH EXPRESS 8(2), 2026.			0.333
XXXVI	Paulescu M; Paulescu E; Gravila P; Badescu V, Weather Modeling and Forecasting of PV Systems Operation, Springer, 2013, ISBN : 978-1-4471-4648-3		106	4	26.5
	1	Fonseca Junior J. G. da S., Oozeki T., Ohtake H., Takashima T., and Ogimoto K. (2014), Regional forecasts of photovoltaic power generation according to different data availability scenarios: a study of four methods, Prog. Photovolt: Res. Appl., doi: 10.1002/pip.2528			0.25
	2	Cyril Voyant, Pierrick Haurant, Marc Muselli, Christophe Paoli, Marie-Laure Nivet. Time series modeling and large scale global solar radiation forecasting from geostationary satellites data. Solar Energy 102 (2014) 131–142			0.25
	3	Badescu V, Dumitrescu A. Accuracy of CM-SAF solar irradiance incident on horizontal surface. Theoretical and Applied Climatology 117 (2014) 233–246.			0.25
	4	Cyril Voyant, Christophe Darras, Marc Muselli, Christophe Paoli, Marie-Laure Nivet, Philippe Poggi, Bayesian rules and stochastic models for high accuracy prediction of solar radiation, Applied Energy, Volume 114 (2014) Pages 218-226			0.25
	5	Marius Paulescu, Viorel Badescu, Ciprian Dughir, New procedure and field-tests to assess photovoltaic module performance, Energy, Volume 70 (2014) Pages 49-57			0.25
	6	Pop, N., Pacurar, A., Boata, R., Gravila, P., & Paulescu, M. (2014). The Assessment of Beam Solar Irradiance Using Parametric Modeling. International Journal of Green Energy, 11(8), 876–885. https://doi.org/10.1080/15435075.2013.829478			0.25
	7	Sadamoto T, Ishizaki T, Koike M, Ueda Y, Imura J. Spatiotemporally Multiresolutional Optimization Toward Supply-Demand-Storage Balancing Under PV Prediction Uncertainty. IEEE Transactions on Smart Grid 6(2) (2015) 853- 865			0.25
	8	Viorel Badescu V, Rotar N, Udrea I. Considerations concerning the feasibility of the German Passivhaus concept in Southern Hemisphere. Energy Efficiency (2015) DOI 10.1007/s12053-015-9332-8			0.25
	9	Joao Gari da Silva Fonseca Junior, Takashi Oozeki, Hideaki Ohtake, Takumi Takashima, Ogimoto Kazuhiko. On the Use of Maximum Likelihood and Input Data Similarity to Obtain Prediction Intervals for Forecasts of Photovoltaic Power Generation. Journal of Electrical Engineering and Technology 10 (2015) 30-40.			0.25

10	Spasiano D, Marotta R, Malato S, Fernandez-Ibañez P, Somma I. Solar photocatalysis: Materials, reactors, some commercial, and pre-industrialized applications. A comprehensive approach. <i>Applied Catalysis B: Environmental</i> 170–171 (2015) 90-123.	0.25
11	Cornaro C, Pierro M, Bucci F. Master optimization process based on neural networks ensemble for 24-h solar irradiance forecast. <i>Solar Energy</i> 111 (2015) 297–312.	0.25
12	Ahmet Teke, H. Başak Yıldırım, Özgür Çelik, Evaluation and performance comparison of different models for the estimation of solar radiation, <i>Renewable and Sustainable Energy Reviews</i> , Volume 50 (2015) Pages 1097-1107.	0.25
13	Oana Mares, Marius Paulescu, Viorel Badescu, A simple but accurate procedure for solving the five-parameter model, <i>Energy Conversion and Management</i> , Volume 105 (2015) Pages 139-148.	0.25
14	Jie Zhang, Bri-Mathias Hodge, Siyuan Lu, Hendrik F. Hamann, Brad Lehman, Joseph Simmons, Edwin Campos, Venkat Banunarayanan, Jon Black, John Tedesco, Baseline and target values for regional and point PV power forecasts: Toward improved solar forecasting, <i>Solar Energy</i> , Volume 122 (2015) Pages 804-819	0.25
15	M. Pierro, F. Bucci, C. Cornaro, E. Maggioni, A. Perotto, M. Pravettoni, F. Spada, Model output statistics cascade to improve day ahead solar irradiance forecast, <i>Solar Energy</i> , Volume 117 (2015) Pages 99-113	0.25
16	Byung O Kang, Kwa-Sur Tam, New and improved methods to estimate day-ahead quantity and quality of solar irradiance, <i>Applied Energy</i> , Volume 137 (2015) Pages 240-249	0.25
17	Mahmoud A.M. Al-Alwani, Abu Bakar Mohamad, Norasikin A. Ludin, Abd. Amir H. Kadhum, Kamaruzzaman Sopian, Dye-sensitised solar cells: Development, structure, operation principles, electron kinetics, characterisation, synthesis materials and natural photosensitisers, <i>Renewable and Sustainable Energy Reviews</i> , Volume 65 (2016) Pages 183-213.	0.25
18	Marco Pierro, Francesco Bucci, Matteo De Felice, Enrico Maggioni, David Moser, Alessandro Perotto, Francesco Spada, Cristina Cornaro, Multi-Model Ensemble for day ahead prediction of photovoltaic power generation, <i>Solar Energy</i> , Volume 134 (2016) Pages 132-146.	0.25
19	Szilárd Szabó, Péter Enyedi, Miklós Horváth, Zoltán Kovács, Péter Burai, Tamás Csoknyai, Gergely Szabó, Automated registration of potential locations for solar energy production with Light Detection And Ranging (LiDAR) and small format photogrammetry, <i>Journal of Cleaner Production</i> , Volume 112, Part 5 (2016) Pages 3820-3829.	0.25
20	Siheng Wang, Lifu Zhang, Dongjie Fu, Xu Lu, Taixia Wu, Qingxi Tong, Selecting photovoltaic generation sites in Tibet using remote sensing and geographic analysis, <i>Solar Energy</i> , Volume 133, (2016) Pages 85-93	0.25
21	F. Aliprandi, A. Stoppato, A. Mirandola, Estimating CO2 emissions reduction from renewable energy use in Italy, <i>Renewable Energy</i> , Volume 96, Part A (2016) Pages 220-232	0.25
22	Romeo Pacudan, Implications of applying solar industry best practice resource estimation on project financing, <i>Energy Policy</i> , Volume 95 (2016) Pages 489-497	0.25
23	Kahina Dahmani, Gilles Notton, Cyril Voyant, Rabah Dizene, Marie Laure Nivet, Christophe Paoli, Wani Tamas, Multilayer Perceptron approach for estimating 5-min and hourly horizontal global irradiation from exogenous meteorological data in locations without solar measurements, <i>Renewable Energy</i> , Volume 90 (2016) Pages 267-282	0.25
24	Agrom Idrizaj, Alo Laas, Urmas Anijalg, Peeter Nõges, Horizontal differences in ecosystem metabolism of a large shallow lake, <i>Journal of Hydrology</i> , Volume 535 (2016) Pages 93-100	0.25

25	Marek Brabec, Viorel Badescu, Marius Paulescu, Alexandru Dumitrescu, A new perspective on the relationship between cloud shade and point cloudiness, Atmospheric Research, Volumes 172–173, (2016) Pages 136-146	0.25
26	Cyril Voyant, Gilles Notton, Soteris Kalogirou, Marie-Laure Nivet, Christophe Paoli, Fabrice Motte, Alexis Fouilloy, Machine learning methods for solar radiation forecasting: A review, Renewable Energy, Volume 105 (2017), Pages 569-582	0.25
27	Siva Ramakrishna Madeti, S.N. Singh, Monitoring system for photovoltaic plants: A review, Renewable and Sustainable Energy Reviews, Volume 67 (2017) Pages 1180-1207.	0.25
28	Marco Pierro, Matteo De Felice, Enrico Maggioni, David Moser, Alessandro Perotto, Francesco Spada, Cristina Cornaro, Data-driven upscaling methods for regional photovoltaic power estimation and forecast using satellite and numerical weather prediction data, Solar Energy, Volume 158 (2017) Pages 1026-1038.	0.25
29	Hao Zhang, Jie Cai, Kan Fang, Fu Zhao, John W. Sutherland, Operational optimization of a grid-connected factory with onsite photovoltaic and battery storage systems, Applied Energy, Volume 205 (2017) Pages 1538-1547	0.25
30	Marco Pierro, Francesco Bucci, Matteo De Felice, Enrico Maggioni, Alessandro Perotto, Francesco Spada, David Moser, Cristina Cornaro, Deterministic and Stochastic Approaches for Day-Ahead Solar Power Forecasting, J. Sol. Energy Eng. Apr 2017, 139(2): 021010 (12 pages) Paper No: SOL-16-1066 https://doi.org/10.1115/1.4034823	0.25
31	Mikael Jämsä, Fiona Lynch, Anita Santana-Sánchez, Petteri Laaksonen, Gennadi Zaitsev, Alexei Solovchenko, Yagut Allahverdiyeva, Nutrient removal and biodiesel feedstock potential of green alga UHCC00027 grown in municipal wastewater under Nordic conditions, Algal Research, Volume 26 (2017) Pages 65-73	0.25
32	Marius Paulescu, Marek Brabec, Remus Boata, Viorel Badescu, Structured, physically inspired (gray box) models versus black box modeling for forecasting the output power of photovoltaic plants, Energy, Volume 121 (2017) Pages 792-802	0.25
33	Grimaccia, F.; Leva, S.; Mussetta, M.; Ogliari, E. ANN Sizing Procedure for the Day-Ahead Output Power Forecast of a PV Plant. Appl. Sci. 2017, 7, 622. https://doi.org/10.3390/app7060622	0.25
34	Cyril Voyant, Gilles Notton, Christophe Darras, Alexis Fouilloy, Fabrice Motte, Uncertainties in global radiation time series forecasting using machine learning: The multilayer perceptron case, Energy, Volume 125 (2017) Pages 248-257	0.25
35	Clack, C. T. M., 2017: Modeling Solar Irradiance and Solar PV Power Output to Create a Resource Assessment Using Linear Multiple Multivariate Regression. J. Appl. Meteor. Climatol., 56, 109–125, https://doi.org/10.1175/JAMC-D-16-0175.1 .	0.25
36	Huaxin Wang, M.A. Muñoz-García, G.P. Moreda, M.C. Alonso-García, Seasonal performance comparison of three grid connected photovoltaic systems based on different technologies operating under the same conditions, Solar Energy, Volume 144 (2017) Pages 798-807	0.25
37	Mohamed Ghaieth Abidi, Moncef Ben Smida, Mohamed Khalgui, Zhiwu Li, Naiqi Wu, Multi-agent oriented solution for forecasting-based control strategy with load priority of microgrids in an island mode – Case study: Tunisian petroleum platform, Electric Power Systems Research, Volume 152 (2017) Pages 411-423	0.25
38	João M. Lenz, Hamiltom C. Sartori, José R. Pinheiro, Mission profile characterization of PV systems for the specification of power converter design requirements, Solar Energy, Volume 157, (2017) Pages 263-276	0.25

39	Ghorai, P., Majhi, S., and Pandey, S. (November 11, 2016). "Modeling and Identification of Real-Time Processes Based on Nonzero Setpoint Autotuning Test." ASME. J. Dyn. Sys., Meas., Control. February 2017; 139(2): 021010. https://doi.org/10.1115/1.4034802	0.25
40	Sumargo, E., and D. R. Cayan, 2017: Variability of Cloudiness over Mountain Terrain in the Western United States. J. Hydrometeor., 18, 1227–1245, https://doi.org/10.1175/JHM-D-16-0194.1 .	0.25
41	Gilles Notton, Marie-Laure Nivet, Cyril Voyant, Christophe Paoli, Christophe Darras, Fabrice Motte, Alexis Fouilloy, Intermittent and stochastic character of renewable energy sources: Consequences, cost of intermittence and benefit of forecasting, Renewable and Sustainable Energy Reviews, Volume 87 (2018), Pages 96-105	0.25
42	Fermín Rodríguez, Alice Fleetwood, Ainhoa Galarza, Luis Fontán, Predicting solar energy generation through artificial neural networks using weather forecasts for microgrid control, Renewable Energy, Volume 126 (2018), Pages 855-864.	0.25
43	S. Schopfer, V. Tiefenbeck, T. Staake, Economic assessment of photovoltaic battery systems based on household load profiles, Applied Energy, Volume 223 (2018) Pages 229-248.	0.25
44	Sven Killinger, David Lingfors, Yves-Marie Saint-Drenan, Panagiotis Moraitis, Wilfried van Sark, Jamie Taylor, Nicholas A. Engerer, Jamie M. Bright, On the search for representative characteristics of PV systems: Data collection and analysis of PV system azimuth, tilt, capacity, yield and shading, Solar Energy, Volume 173 (2018) Pages 1087-1106	0.25
45	Dolara, A.; Grimaccia, F.; Leva, S.; Mussetta, M.; Ogliari, E. Comparison of Training Approaches for Photovoltaic Forecasts by Means of Machine Learning. Appl. Sci. 2018, 8, 228. https://doi.org/10.3390/app8020228	0.25
46	Mahmoud Ouria, Harun Sevinc, Evaluation of the potential of solar energy utilization in Famagusta, Cyprus, Sustainable Cities and Society, Volume 37 (2018) Pages 189-202.	0.25
47	S. Rosiek, J. Alonso-Montesinos, F.J. Batlles, Online 3-h forecasting of the power output from a BIPV system using satellite observations and ANN, International Journal of Electrical Power & Energy Systems, Volume 99 (2018) Pages 261-272	0.25
48	Cyril Voyant, Gilles Notton, Solar irradiation nowcasting by stochastic persistence: A new parsimonious, simple and efficient forecasting tool, Renewable and Sustainable Energy Reviews, Volume 92 (2018) Pages 343-352	0.25
49	Brecl, K.; Topič, M. Photovoltaics (PV) System Energy Forecast on the Basis of the Local Weather Forecast: Problems, Uncertainties and Solutions. Energies 2018, 11, 1143. https://doi.org/10.3390/en11051143	0.25
50	Diane Palmer, Elena Koubli, Ian Cole, Tom Betts, Ralph Gottschalg, Satellite or ground-based measurements for production of site specific hourly irradiance data: Which is most accurate and where?, Solar Energy, Volume 165 (2018) Pages 240-255	0.25
51	Mokhtari, A., Noory, H. & Vazifedoust, M. Performance of Different Surface Incoming Solar Radiation Models and Their Impacts on Reference Evapotranspiration. Water Resour Manage 32, 3053–3070 (2018). https://doi.org/10.1007/s11269-018-1974-9	0.25
52	Laiti, L.; Giovannini, L.; Zardi, D.; Belluardo, G.; Moser, D. Estimating Hourly Beam and Diffuse Solar Radiation in an Alpine Valley: A Critical Assessment of Decomposition Models. Atmosphere 2018, 9, 117. https://doi.org/10.3390/atmos9040117	0.25
53	Stefano Perilli, Stefano Sfarra, Mirco Guerrini, Fabio Bisegna, Dario Ambrosini, The thermophysical behaviour of cork supports doped with an innovative thermal insulation and protective coating: A numerical analysis based on in situ experimental data, Energy and Buildings, Volume 159 (2018) Pages 508-528	0.25

54	L. Benali, G. Notton, A. Foulloy, C. Voyant, R. Dizene, Solar radiation forecasting using artificial neural network and random forest methods: Application to normal beam, horizontal diffuse and global components, <i>Renewable Energy</i> , Volume 132 (2019) Pages 871-884.	0.25
55	Robert Blaga, Andreea Sabadus, Nicoleta Stefu, Ciprian Dughir, Marius Paulescu, Viorel Badescu, A current perspective on the accuracy of incoming solar energy forecasting, <i>Progress in Energy and Combustion Science</i> , Volume 70 (2019) Pages 119-144.	0.25
56	Rachit Srivastava, A.N. Tiwari, V.K. Giri, Solar radiation forecasting using MARS, CART, M5, and random forest model: A case study for India, <i>Heliyon</i> , VOLUME 5, ISSUE 10, E02692, OCTOBER 2019.	0.25
57	Notton, G.; Voyant, C.; Foulloy, A.; Duchaud, J.L.; Nivet, M.L. Some Applications of ANN to Solar Radiation Estimation and Forecasting for Energy Applications. <i>Appl. Sci.</i> 2019, 9, 209. https://doi.org/10.3390/app9010209	0.25
58	Harold Gamarro, Jorge E. Gonzalez, Luis E. Ortiz, On the Assessment of a Numerical Weather Prediction Model for Solar Photovoltaic Power Forecasts in Cities, <i>J. Energy Resour. Technol.</i> Jun 2019, 141(6): 061203 (7 pages) Paper No: JERT-18-1766 https://doi.org/10.1115/1.4042972	0.25
59	Yeom, J.-M.; Park, S.; Chae, T.; Kim, J.-Y.; Lee, C.S. Spatial Assessment of Solar Radiation by Machine Learning and Deep Neural Network Models Using Data Provided by the COMS MI Geostationary Satellite: A Case Study in South Korea. <i>Sensors</i> 2019, 19, 2082. https://doi.org/10.3390/s19092082	0.25
60	Mahmoud Ouria, Solar energy potential according to climatic and geometrical parameters of cities and buildings: A case-study from Tabriz City- Iran, <i>Urban Climate</i> , Volume 28 (2019) 100469	0.25
61	Rahman, M.M., Zhang, W. Review on estimation methods of the Earth's surface energy balance components from ground and satellite measurements. <i>J Earth Syst Sci</i> 128, 84 (2019). https://doi.org/10.1007/s12040-019-1098-5	0.25
62	Smajil Halilovic, Jamie M. Bright, Wiebke Herzberg, Sven Killinger, An analytical approach for estimating the global horizontal from the global tilted irradiance, <i>Solar Energy</i> , Volume 188 (2019) Pages 1042-1053	0.25
63	Sfarra, S., Perilli, S., Guerrini, M. et al. On the use of phase change materials applied on cork-coconut-cork panels. <i>J Therm Anal Calorim</i> 138, 4061–4090 (2019). https://doi.org/10.1007/s10973-019-08350-1	0.25
64	J. del Campo-Ávila, M. Piliouge, R. Morales-Bueno, L. Mora-López, A data mining system for predicting solar global spectral irradiance. Performance assessment in the spectral response ranges of thin-film photovoltaic modules, <i>Renewable Energy</i> , Volume 133 (2019) Pages 828-839	0.25
65	Payne, E.K.; Lu, S.; Wang, Q.; Wu, L. Concept of Designing Thermal Condition Monitoring System with ZigBee/GSM Communication Link for Distributed Energy Resources Network in Rural and Remote Applications. <i>Processes</i> 2019, 7, 383. https://doi.org/10.3390/pr7060383	0.25
66	A. Jebar, M. A., Parisi, A. V., Downs, N. J., & Turner, J. (2019). Influence of clouds on OMI satellite total daily UVA exposure over a 12-year period at a southern hemisphere site. <i>International Journal of Remote Sensing</i> , 41(1), 272–283. https://doi.org/10.1080/01431161.2019.1641243	0.25
67	Tanveer Ahmad, Hongcai Zhang, Biao Yan, A review on renewable energy and electricity requirement forecasting models for smart grid and buildings, <i>Sustainable Cities and Society</i> , Volume 55 (2020), 102052.	0.25

68	Vishnu Suresh, Przemyslaw Janik, Jacek Rezmer and Zbigniew Leonowicz, Forecasting Solar PV Output Using Convolutional Neural Networks with a Sliding Window Algorithm, <i>Energies</i> (2020), 13(3), 723	0.25
69	Fermín Rodríguez, Ane M. Florez-Tapia, Luis Fontán, Ainhoa Galarza, Very short-term wind power density forecasting through artificial neural networks for microgrid control, <i>Renewable Energy</i> , Volume 145 (2020) Pages 1517-1527.	0.25
70	Mohamed Louzazni, Heba Mosalam, Ahmed Khouya, Khalid Amechnoue, A non-linear auto-regressive exogenous method to forecast the photovoltaic power output, <i>Sustainable Energy Technologies and Assessments</i> , Volume 38 (2020) 100670.	0.25
71	Chandra Mouli, G.R.; Van Duijsen, P.; Grazian, F.; Jamodkar, A.; Bauer, P.; Isabella, O. Sustainable E-Bike Charging Station That Enables AC, DC and Wireless Charging from Solar Energy. <i>Energies</i> 2020, 13, 3549. https://doi.org/10.3390/en13143549	0.25
72	Belmahdi, B., Louzazni, M. & Bouardi, A.E. A hybrid ARIMA–ANN method to forecast daily global solar radiation in three different cities in Morocco. <i>Eur. Phys. J. Plus</i> 135, 925 (2020). https://doi.org/10.1140/epjp/s13360-020-00920-9	0.25
73	Choi, S.; Hur, J. An Ensemble Learner-Based Bagging Model Using Past Output Data for Photovoltaic Forecasting. <i>Energies</i> 2020, 13, 1438. https://doi.org/10.3390/en13061438	0.25
74	Jong-Min Yeom, Ravinesh C. Deo, Jan F. Adamowski, Taeyeon Chae, Dong-Su Kim, Kyung-Soo Han, Do-Yong Kim, Exploring solar and wind energy resources in North Korea with COMS MI geostationary satellite data coupled with numerical weather prediction reanalysis variables, <i>Renewable and Sustainable Energy Reviews</i> , Volume 119 (2020) 109570	0.25
75	Ferreira, A.C.; Silva, A.; Teixeira, J.C.; Teixeira, S. Multi-Objective Optimization of Solar Thermal Systems Applied to Portuguese Dwellings. <i>Energies</i> 2020, 13, 6739. https://doi.org/10.3390/en13246739	0.25
76	Abe, C.F.; Dias, J.B.; Notton, G.; Faggianelli, G.A. Experimental Application of Methods to Compute Solar Irradiance and Cell Temperature of Photovoltaic Modules. <i>Sensors</i> 2020, 20, 2490. https://doi.org/10.3390/s20092490	0.25
77	Jain, Sanjiv Kumar and Yawalkar, Kaustubh and Singh, Prakhar and Apte, Advait, Real time prediction of solar radiation of Indore region using machine learning algorithms, <i>International Journal of Engineering Systems Modelling and Simulation</i> , Vol.12, Nr4 (2021), pages 264-270	0.25
78	Gupta, P., & Singh, R. PV power forecasting based on data-driven models: a review. <i>International Journal of Sustainable Engineering</i> , 14(6), 1733–1755, (2021). https://doi.org/10.1080/19397038.2021.1986590	0.25
79	Javier Almorox, Cyril Voyant, Nadjem Bailek, Alban Kuriqi, J.A. Arnaldo, Total solar irradiance's effect on the performance of empirical models for estimating global solar radiation: An empirical-based review, <i>Energy</i> , Volume 236 (2021) 121486.	0.25
80	Fermín Rodríguez, Fernando Martín, Luis Fontán, Ainhoa Galarza, Ensemble of machine learning and spatiotemporal parameters to forecast very short-term solar irradiation to compute photovoltaic generators' output power, <i>Energy</i> , Volume 229 (2021) 120647.	0.25
81	Sarvesh Kumar Singh, Simit Raval, Bikram Pratap Banerjee, Automated structural discontinuity mapping in a rock face occluded by vegetation using mobile laser scanning, <i>Engineering Geology</i> , Volume 285 (2021) 106040	0.25
82	Fermín Rodríguez, Michael Genn, Luis Fontán, Ainhoa Galarza, Very short-term temperature forecaster using MLP and N-nearest stations for calculating key control parameters in solar	0.25

		photovoltaic generation, Sustainable Energy Technologies and Assessments, Volume 45 (2021) 101085	
	83	Overen, O.K.; Meyer, E.L.; Makaka, G. Indoor Daylighting and Thermal Response of a Passive Solar Building to Selective Components of Solar Radiation. Buildings 2021, 11, 34. https://doi.org/10.3390/buildings11010034	0.25
	84	Mubarak, R.; Schilke, H.; Seckmeyer, G. Improving the Irradiance Data Measured by Silicon-Based Sensors. Energies 2021, 14, 2766. https://doi.org/10.3390/en14102766	0.25
	85	Perilli, S.; Palumbo, D.; Sfarra, S.; Galietti, U. Advanced Insulation Materials for Facades: Analyzing Detachments Using Numerical Simulations and Infrared Thermography. Energies 2021, 14, 7546. https://doi.org/10.3390/en14227546	0.25
	86	Xia, X., Pan, Y., Zhu, X. et al. Monthly calibration and optimization of Ångström-Prescott equation coefficients for comprehensive agricultural divisions in China. J. Geogr. Sci. 31, 997–1014 (2021). https://doi.org/10.1007/s11442-021-1882-4	0.25
	87	Robert Blaga, Delia Calinoiu, Marius Paulescu; A one-parameter family of clear-sky solar irradiance models adapted for different aerosol types. J. Renewable Sustainable Energy 1 March 2021; 13 (2): 023701. https://doi.org/10.1063/5.0038619	0.25
	88	Jebar, M.A.A., Downs, N.J., Parisi, A.V. and Turner, J. (2021), Evaluation of the Long-term Cumulative UVA Facial Exposure of Queensland School Teachers derived for an Extended Period from the OMI Satellite Irradiance. Photochem Photobiol, 97: 192-197. https://doi.org/10.1111/php.13329	0.25
	89	Ankur Kumar Gupta, Rishi Kumar Singh , Short-term day-ahead photovoltaic output forecasting using PCA-SFLA-GRNN algorithm, Front. Energy Res., 21 October 2022, Sec. Solar Energy Volume 10 - 2022 https://doi.org/10.3389/fenrg.2022.1029449	0.25
	90	Cărbunar, M.; Mintaș, O.; Sabău, N.C.; Borza, I.; Stanciu, A.; Pereș, A.; Venig, A.; Curilă, M.; Cărbunar, M.L.; Vidican, T.; et al. Effectiveness of Measures to Reduce the Influence of Global Climate Change on Tomato Cultivation in Solariums—Case Study: Crișurilor Plain, Bihor, Romania. Agriculture 2022, 12, 634. https://doi.org/10.3390/agriculture12050634	0.25
	91	Raillard-Cazanove, Q.; Barbour, E. Analysis of Smart Meter Electricity Consumption Data for PV Storage in the UK. Energies 2022, 15, 3732. https://doi.org/10.3390/en15103732	0.25
	92	Athanasios Aris Panagopoulos, Filippos Christianos, Michail Katsigiannis, Konstantinos Mykoniatis, Georgios Chalkiadakis, Marco Pritoni, Therese Pfeffer, Orestis P. Panagopoulos, Emmanouil S. Rigas, David E. Culler, Nicholas R. Jennings, Timothy Lipman, iPlugie: Intelligent electric vehicle charging in buildings with grid-connected intermittent energy resources, Simulation Modelling Practice and Theory, Volume 115 (2022) 102439	0.25
	93	Benitez, I.B.; Ibañez, J.A.; Lumabad, C.I.D.; Cañete, J.M.; Principe, J.A. Day-Ahead Hourly Solar Photovoltaic Output Forecasting Using SARIMAX, Long Short-Term Memory, and Extreme Gradient Boosting: Case of the Philippines. Energies 2023, 16, 7823. https://doi.org/10.3390/en16237823	0.25
	94	Sabry, M.; Lashin, A. Performance of a Heat-Pipe Cooled Concentrated Photovoltaic/Thermoelectric Hybrid System. Energies 2023, 16, 1438. https://doi.org/10.3390/en16031438	0.25
	95	Faridaddin Vahdatikhaki, Meggie Vincentia Barus, Qinshuo Shen, Hans Voordijk, Amin Hammad, Surrogate modelling of solar radiation potential for the design of PV module layout on entire façade of tall buildings, Energy and Buildings, Volume 286 (2023) 112958	0.25

	96	Pranda M.P. Garniwa, Hyunjin Lee, Intercomparison of the parameterized Linke turbidity factor in deriving global horizontal irradiance, Renewable Energy, Volume 212 (2023) Pages 285-298	0.25
	97	Manal Yasmine Boudjella, Ahmed Hafid Belbachir, Samy Anis Amine Dib, Mustapha Meftah, Calculation of surface spectral irradiance using the Geant4 Monte Carlo toolkit, Journal of Atmospheric and Solar-Terrestrial Physics, Volume 248 (2023) 106077	0.25
	98	Milan Despotovic, Cyril Voyant, Luis Garcia-Gutierrez, Javier Almorox, Gilles Notton, Solar irradiance time series forecasting using auto-regressive and extreme learning methods: Influence of transfer learning and clustering, Applied Energy, Volume 365 (2024) 123215	0.25
	99	Teixeira, I.; Ferreira, A.C.; Rodrigues, N.; Teixeira, S. Energy Poverty and Its Indicators: A Multidimensional Framework from Literature. Energies 2024, 17, 3445. https://doi.org/10.3390/en17143445	0.25
	100	Cui, M., Zhao, S. & Yao, J. Short-term forecasting of surface solar incident radiation on edge intelligence based on AttUNet. J Cloud Comp 13, 67 (2024). https://doi.org/10.1186/s13677-024-00624-w	0.25
	101	Sabadus, A.; Stefu, N.; Paulescu, M. Evaluating Outdoor Performance of PV Modules Using an Innovative Explicit One-Diode Model. Energies 2024, 17, 2547. https://doi.org/10.3390/en17112547	0.25
	102	Suwichaya Suwanwimolkul, Natanon Tongamrak, Nuttamon Thungka, Naebboon Hoonchareon, Jitkomut Songsiri, Deep-learning-based and near real-time solar irradiance map using Himawari-8 satellite imageries, Solar Energy, Volume 288, 2025, 113262, ISSN 0038-092X, https://doi.org/10.1016/j.solener.2025.113262 .	0.25
	103	Marini E, Russo G, Zhang H, Sfarra S. Beyond the Page: Solar Loading Thermographic Imaging and Predictive Modeling for Ancient Book Diagnostics—Preliminary Results. Sensors. 2026; 26(4):1358. https://doi.org/10.3390/s26041358	0.25
	104	Michael Beck, M.J. Hossain, Coordinated market and control framework for a hybrid CCPP–BESS–PV power plant with black-start capability, Electric Power Systems Research 2026, Volume 259, 113283, https://doi.org/10.1016/j.epsr.2026.113283 .	0.25
	105	Tutumlu H. Seasonal and Distribution-Based Performance Assessment of Fixed-Tilt and Single-Axis Tracking Photovoltaic Systems Under Real Meteorological Conditions. Sustainability. 2026; 18(8):3850. https://doi.org/10.3390/su18083850	0.25
	106	O. Khouili, M. Louzazni and M. Hanine, "Predicting Solar Irradiation: A Machine Learning Comparison With Correlation Feature Selection," in IEEE Power Electronics Magazine, vol. 12, no. 4, pp. 19-37, Dec. 2025, doi: 10.1109/MPEL.2025.3623330.	0.25

Punctaj total indicator 3	C = 164.295
---------------------------	------------------------

Precizari

c_i reprezintă numărul de citări pentru publicația “ i ”.

n_i este numărul de autori ai publicației “ i ” citate.

n_i^{ef} – numărul efectiv de autori ai publicației “ i ” citate.



n_i^{ef} reprezintă numărul efectiv de autori ai itemului i și ia următoarele valori:

n_i dacă $n_i \leq 5$, $(n_i + 5)/2$ dacă $5 < n_i \leq 15$, $(n_i + 15)/3$ dacă $15 < n_i \leq 75$ și $(n_i + 45)/4$ dacă $n_i > 75$, unde n_i reprezintă numărul de autori ai articolului i . În cazul publicațiilor HEPP (High Energy Particle Physics) cu număr mare de autori, dacă articolul are la bază o notă internă a experimentului la care candidatul este coautor, atunci n_i^{ef} poate fi dat de numărul de autori din nota internă.

Nu se iau în considerare citările provenind din articole care au ca autor sau coautor candidatul (autocitările);

3.2. Factorul Hirsch

$h(\text{WebOfScience}) = 16$

Criterii minimale pentru recunoașterea impactului activității:

CS I, profesor universitar: , $C \geq 40$, $h \geq 10$

Punctajul total CNATDCU: $T = A + P / 2 + I / 2 + C / 20 + h / 5$

$$T = 5.803 + 13.718/2 + 8.005/2 + 164.295/20 + 16/5 = 28.078$$

Criterii minimale punctaj total:

CS I, profesor universitar: $T \geq 12$

Indicator	A	I	P	C	h	T
Valoare minima pentru Profesor	2	4	4	40	10	12
Valoare realizata	5.803	8.005	13.718	164.295	16	28.078
Indeplinit/Neindeplinit	Indeplinit	Indeplinit	Indeplinit	Indeplinit	Indeplinit	Indeplinit

2.06.2026

Paulescu Eugenia

