

Galgotias College of Engineering and Technology

Department of Applied Sciences

Publications: 2023-24

Sr. No	Author(s), in sequence as mentioned in the paper	Title	Journal and publisher name	Volume, Issue, ISSN, Page No, Year of Publication	Indexing (SCIE/SSCI/AHCI/ESCI/Scopus), if not index, write no	Impact Factor (Clarivate or equivalent agency only)	Session	DOI (in the form of link)
1	P. Chauhan, S. Agarwal, V. Srivastava, Sadanand, M. K. Hossain, R. Pandey, J. Madan, P. Lohia, D.K. Dwivedi and M. Amami	Kesterite CZTS based thin film solar cell: Generation, recombination, and performance analysis	Journal of Physics and Chemistry of Solids	183, Dec, 0022-3697, p.111631(1-12), 2023	SCIE	4	2023-24	https://doi.org/10.1016/j.jpics.2023.111631
2	Pratibha Chauhan, Surbhi Agarwal, Vaibhava Srivastava, Sadanand, M. Khalid Hossain, Jaya Madan, Rajesh Kumar Yadav, Pooja Lohia, Dilip Kumar Dwivedi, and Asma A. Alothman	Impact on generation and recombination rate in Cu ₂ ZnSnS ₄ (CZTS) solar cell for Ag ₂ S and In ₂ Se ₃ buffer layers with CuSbS ₂ back surface field layer	Progress in Photovoltaics, WILEY	32(3), 1099-159X, 156-171, 2023	SCIE	6.7	2023-24	https://doi.org/10.1002/pip.3743
3	Ashwini Singh, Vaibhava Srivastava, Sachin Singh, Sadanand, Shambhavi Rai, Pooja Lohia, D. K. Dwivedi, Surbhi Agarwal, Mohamed Ouladsmane, M. Khalid Hossain	Optimization of highly efficient inorganic lead-free double perovskite solar cells via SCAPS-1D	Journal of Optics	53, 0972-8821, 2405-2417, 2023	ESCI	1.8	2023-24	https://doi.org/10.1007/s12596-023-01440-2
4	Jyoti Singh, Surbhi Agarwal, Vaibhava Srivastava, Sadanand, M. Khalid Hossain, Rahul Pandey, Jaya Madan, Pooja Lohia, D. K. Dwivedi, Mohamed Ouladsmane	Attaining above 30% efficiency of PbS-based colloidal quantum dot solar cell using MoO ₃ and SnO ₂ as charge transport layers: a numerical approach	Journal of Optics	53, 0972-8821, 3186-3197, 2023	ESCI	1.8	2023-24	https://doi.org/10.1007/s12596-023-01449-7
5	Shibani Navasakthi, Anuvash Pandey, Rahul Dandautiya, Murtaza Hasan, Mohammad Amir Khan, Kahkashan Perveen, Shamshad Alam, Rajni Garg, Obaid Qamar	Assessment of Spatial and Temporal Variation in Water Quality	Water, MDPI	15 (17), 0972-88211, 3076, 2023	SCIE	3.4	2023-24	https://doi.org/10.3390/w15173076
6	N. O. Eddy, Rajni Garg, Rishav Garg, Samson I. Eze, Emeka Chima Ogoko, Henrietta Ijeoma Kelle, Richard Alexis Ukpe, Raphael Ogbodo, Favour Chijoke	Sol-Gel Synthesis, Computational Chemistry, and Applications of CaO Nanoparticles for the Remediation of Methyl Orange Contaminated Water	Advances in Nano Research: Techno press journals	15(1), 2287-2388, 35-48, 2023	SCIE	5.7	2023-24	https://doi.org/10.12989/anr.2023.15.1.035
7	V. K. Chopra, Rajeev Kumar Mishra, V. K. Dwivedi, B. Mohapatra	An allusive realization on the performance analysis of glass to glass, glass to tedlar and aluminum base flexible photovoltaic (PV) module	Journal of Thermal Engineering	9(4), 4, 2148-7847, 1-12, 2023	ESCI	1.1	2023-24	https://doi.org/10.18186/thermal.1331944
8	Mona Mittal, Rahul Garg, Atanu Jana	Recent progress in stabilization of low band-gap black-phase iodide perovskite solar cells	Dalton Transactions, Royal Society of Chemistry	52(34), 1477-9226, 11750-11767, 2023	SCI	3.5	2023-24	https://pubs.rsc.org/en/content/articlelanding/2023/dt/d3dt01581e/unauth
9	A. Anjum, Rajni Garg, M. Kashif, N.O.Eddy	Nano-scale innovations in packaging: Properties, types, and applications of nanomaterials for the future	Food Chemistry Advances	3, 2772-753X, 100560, 2023	Scopus	0.5	2023-24	https://doi.org/10.1016/j.focha.2023.100560
10	Pal. Vinod	Teaching English Language Writing Skills to the Engineering Students	International Journal for Multidisciplinary Research (IJFMR)	Vol 5, Issue 6, 2023	other	9.24	2023-24	https://www.ijfmr.com/research-paper.php?id=11130

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11	Kinjil Pandey, Sadanand, Pratap Kumar Dakua, Deepak Kumar Panda, Pravin Kumar Singh, and B. K. Pandey.	Investigation of suitable buffer layer for PbS-TBAI/PbS-EDT colloidal quantum dot solar cell using SCAPS-1D	Optik	298, 0030-4026, 171593, 2024	SCIE	2.8	2023-24	https://doi.org/10.1016/j.ijleo.2023.171593
12	Pratap Kumar Dakua, Deepak Kumar Panda, Savita Kashyap, Abdelmoumene Laidouci, and Sadanand	Simulation and numerical modeling of high-efficiency CZTS solar cells with a BSF layer	International Journal of Numerical Modelling	37(2), 0894-3370, 2023	SCIE	1.4	2023-24	https://doi.org/10.1002/jnm.3188
13	Rishav Garg, Rajni Garg, Md Amir Khan, Manjeet Bansal, and Vinod Kumar Garg	Utilization of Biosynthesized Silica-Supported Iron Oxide Nanocomposites for the Adsorptive Removal of Heavy Metal Ions from Aqueous Solutions	Environmental Science and Pollution Research	30(34),1614-7499, 81319, 2023	SCIE	5.8	2023-24	https://doi.org/10.1007/s11356-022-21111-2
14	Sharma, Rajat, Rajni Garg, Manoj Bali, and Nnabuk O. Eddy	Biogenic Synthesis of Iron Oxide Nanoparticles Using Leaf Extract of Spilanthes Acmella: Antioxidation Potential and Adsorptive Removal of Heavy Metal Ions	Environmental Monitoring and Assessment	195(1345), 1573-2959, 2023	SCIE	3	2023-24	https://doi.org/10.1007/s10661-023-11860-z
15	Sharma, Rajat, Rajni Garg, Manoj Bali, and Nnabuk O. Eddy	Potential Applications of Green-Synthesized Iron Oxide NPs for Environmental Remediation	Environmental Monitoring and Assessment	195(1397), 1573-2959, 2023	SCIE	3	2023-24	https://doi.org/10.1007/s10661-023-12035-6
16	Eddy, Nnabuk Okon, Richard Alexis Ukpe, Rajni Garg, Rishav Garg, Anduang Odiongenyi, Paul Ameh, Imaobong Nyambi Akpet, and Sunday Emmanson Udo	Review of In-Depth Knowledge on the Application of Oxides Nanoparticles and Nanocomposites of Al, Si and Ca as Photocatalyst and Antimicrobial Agents in the Treatment of Contaminants in Water	Clean Technologies and Environmental Policy	ISSN: 1618-9558, 2023	SCIE	4.3	2023-24	https://doi.org/10.1007/s10098-023-02603-2
17	Eddy, Nnabuk Okon, Unwana Edo Edet, Joseph Olusola Oladele, Herientta Ijeoma Kelle, Emeka Chima Ogoko, Anduang O. Odiongenyi, Paul Ameh	Synthesis and Application of Novel Microporous Framework of Nanocomposite from Trona for Photocatalysed Degradation of Methyl Orange Dye	Environmental Monitoring and Assessment	195(11), 1573-2959, 1416, 2023	SCIE	3	2023-24	https://doi.org/10.1007/s10661-023-12014-x
18	Eddy, Nnabuk Okon, Rajni Garg, Rishav Garg, Richard Alexis Ukpe, and Hillary Abugu	Adsorption and Photodegradation of Organic Contaminants by Silver Nanoparticles: Isotherms, Kinetics, and Computational Analysis	Environmental Monitoring and Assessment	196(65), 1573-2959, 2024	SCIE	3	2023-24	https://doi.org/10.1007/s10661-023-12194-6
19	Eddy, Nnabuk Okon, Richard Alexis Ukpe, Rajni Garg, Rishav Garg, Anduang Odiongenyi, Paul Ameh, and Imaobong Nyambi Akpet	Enhancing Water Purification Efficiency through Adsorption and Photocatalysis: Models, Applications, and Challenges	International Journal of Environmental Analytical Chemistry	ISSN:1029-0397, 1-18, 2024	SCIE	2.6	2023-24	https://doi.org/10.1080/03067319.2023.2295934
20	Sharma, Rajat, Suman Lata, and Rajni Garg	Valorisation of Agricultural Waste and Their Role in Green Synthesis of Value-Added Nanoparticles	Environmental Technology Reviews	13(1), 2162-2523, 40–59, 2024	SCOPUS		2023-24	https://doi.org/10.1080/21622515.2023.2283412
21	Sharma, Rakhi & Ram Avtar	The Bhagavad Gita for Engineering Students : Nurturing Leadership Skills	Anhad Lok	9(18), 2349-137X, 401-408, 2024	UGC Care		2023-24	https://vyanjanasociety.com/anhad-lok/
22	Sumit .Faujdar, Pankaj. Pathania, Aman Preet, Jyoti. Katyal	Responsive PNIPAM coated Au core-shell nanoparticle for optical sensing	Bulgarian Chemical Communications	55(A), 0324-1130, 267-271, 2023	SCOPUS		2023-24	https://doi.org/10.34049/bcc.55.A.0041