

Physics Dept-Publications for 2021-22

Sl. No.	Faculty Name	Title of the Publication	Name of the Journal /Conference Proceedings	Scimago Journal & Country Rank	Date of Publication	Volume	Page No.	ISSN	Indexing - Scopus, WoS etc.	DOI/LINK
1	DR. DHANANJAYAN	Radiation shielding, photoluminescence and antimicrobial properties of Magnesium ferrite synthesized via low temperature solution combustion method	Progress in Nuclear Energy	Q1	Dec. 2021	142	-	0149-1970	Scopus	https://doi.org/10.1016/j.pnucene.2021.103988
2		Synthesis and characterization of multi functional nickel ferrite nano-particles for X-ray/gamma radiation shielding, display and	Journal of Physics and Chemistry of Solids	Q2	Dec. 2021	159	-	0022-3697	Scopus	https://doi.org/10.1016/j.jpcs.2021.110260

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		antimicrobial applications								
3		Antibacterial and antiproliferation activity of green synthesized nanoparticles from rhizome extract of <i>Alpinia galangal</i> (L.) Wild	Inorganic Chemistry Communications	Q2	Oct. 2021	132	-	13877003	Scopus	https://doi.org/10.1016/j.inoche.2021.108854
4		E-tirucalli latex mediated green biogenic synthesized Dy ³⁺ doped and Bi ³⁺ co-doped nano perovskite lanthanum aluminum oxide: structure, morphology, luminescence and dielectric studies	The European Physical Journal Plus	Q2	Sep. 2021	136	-	21905444	Scopus	https://doi.org/10.1140/epjp/s13360-021-01888-w

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5		Electrochemical Sensor and luminescence applications of Chonemorpha fragrans leaf extract mediated ZnO/Ag nanostructures	Applied Surface Science Advances	-	June. 2021	4	-	2666-5239	Scopus	https://doi.org/10.1016/j.apsadv.2021.100075
6		Investigation of photoluminescence and dielectric properties of europium-doped LaOCl nanophosphor and its Judd–Ofelt analysis	Journal of Materials Science: Materials in Electronics	Q2	Apr. 2021	32	11511-11523	E ISSN: 1573-482X Print ISSN: 0957-4522	Scopus	https://doi.org/10.1007/s10854-021-05726-8
7		Fabrication And Testing Of Ultra-Long Life Anode Material Using Pedot-Pss/ Graphene Nanoplatelet Composite For Flexible Li-Ion Batteries	International Journal of Electrochemical Science	Q3	2021	16	-	1452-3981	Scopus	http://electrochemsci.org/papers/vol16/210227.pdf

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8		Competition between Cluster and Alpha Decay in Odd Z Superheavy Nuclei $111 \leq Z \leq 125$	Brazilian Journal of Physics	Q3	2021	51	99-135	0103-9733 (print) 1678-4448 (web)	Scopus	https://doi.org/10.1007/s13538-020-00801-7
9	DR.C KAVITHA	A review on reduced Graphene oxide hybrid nano composites and their prominent applications	Materials Today: Proceedings	Q1	2021	49	811-816	2214-7853	Scopus	https://doi.org/10.1016/j.matpr.2021.05.343
10		Low-cost electrochemical detection of l-tyrosine using an rGO–Cu modified pencil graphite electrode and its surface orientation on a Ag electrode using an ex situ spectroelectrochemical method	RSC Advances	Q1	2021	10	22871-22880	2046-2069	Scopus/WOS	https://pubs.rsc.org/en/content/articlelanding/2020/ra/d0ra04015k

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11	DR.BASAV ARAJ R B	Novel orange-red emitting Pr ³⁺ doped CeO ₂ nanopowders for white light emitting diode applications	Inorganic Chemistry Communications	Q2	2021	120	-	13877003	Scopus	https://doi.org/10.1016/j.inoche.2020.108164
12	DR. DHANANJ AYAN	Synthesis and characterization of Barium ferrite nanoparticles for X-ray/gamma radiation shielding and display applications	Progress in Nuclear Energy	Q1	2022		147	104187	0149-1970	https://www.sciencedirect.com/science/article/abs/pii/S0149197022000658
13		Preparation and characterization of multifunctional Li ⁺ co-doped LaOCl: Eu ³⁺ for sensor, phosphor and catalytic applications	Inorganic Chemistry Communications	Q2	2022		139	109402	1387-7003	https://www.sciencedirect.com/journal/inorganic-chemistry-communications
14		Photocatalytic, shielding and cytotoxic properties of	Journal of Science: Advanced Materials	Q1	2022		7	100442	2468-2179	https://www.sciencedirect.com/science/article/pii/S2468217922000260

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		reduced graphene oxide and Barium Ferrite nanocomposite synthesized via green combustion method	and Devices							
15		X-ray / gamma ray radiation shielding properties of α -Bi ₂ O ₃ synthesized by low temperature solution combustion method	Nuclear Engineering and Technology	Q2	March 2022,	54	1062-1070	1738-5733	https://www.science-direct.com/science/article/pii/S1738573321005659	
16		LaAlO ₃ :Dy ³⁺ perovskite for white light emitting phosphors suitable for display devices	Journal of Materials Science: Materials in Electronics	Q2	2022	33	4400-4414	0957-4522	https://link.springer.com/article/10.1007/s10854-021-07632-5	
17		Rare earth activated bio synthesis of zinc aluminate for	Materials today :Proceedings	Not yet assigned	2022	49	628-631	2214-7853	https://www.science-direct.com/science/article/pii/S2214785321034593	

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		photocatalytic activity of dye								
18		Green combustion synthesis of ZnAl ₂ O ₄ :Eu ³⁺ nanoparticle for photocatalytic activity	Materials today :Proceedings	Q1	2022		49	583-587	2214-7854	https://www.science-direct.com/science/article/pii/S2214785321034337
19		Electrochemical, photoluminescence and intensity parameters of LaOCl: Dy ³⁺ for sensors and white light-emitting diode applications	Applied Surface Science Advances		2022		9	100253		https://doi.org/10.1016/j.apsadv.2022.100253
20	DR.C KAVITHA	Entada Gigas seeds mediated synthesis of carbon for dielectric and sensing applications	Sensors International	Q1	2022		3	100162	2666-3511	https://www.science-direct.com/science/article/pii/S2666351122000079
21	DR.BASAV ARAJ R B	Color tunable SrZrO ₃ :Sm ³⁺ nanopowders with satisfactory	Journal of Molecular Structure	Q2	April 2022,		1254	132302	0022-2860	https://www.science-direct.com/science/article/abs/pii/S0022286021024224

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		photoluminescent, band engineering properties for warm white LEDs and advanced forensic applications							
22	Dr Daruka Prasad B	PANI-molybdate nanocomposites: Structural, morphological and dielectric properties for the effective electromagnetic interference (EMI) shielding applications in X-band	Applied Surface Science Advances		2022	7	100203		https://doi.org/10.1016/j.apsadv.2021.100203
23		Functionalized surfaces created by perturbation in luminescent polymer nanocomposites: Materials for forensic and	Colloids and Surfaces A: Physicochemical and Engineering Aspects		2022	634	127770		https://doi.org/10.1016/j.colsurfa.2021.127770

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		security ink applications								
24	Dr Yashaswini D K	Enhanced photoluminescence and decay studies of Li co-doped LaAlO ₃ : Ce ³⁺ phosphor for display applications	European Physical Journal Plus		2022		137	630		https://doi.org/10.1140/epjp/s13360-022-02834-0