

Physics department Publications-2024

Number of Publications in International Journal	Total Numbers	SCI	WOS	Scopus			Q1	Q2	Q3	Q4
				Journals	conf. Proceedings	Book chapters				
Dr. Dhananjaya. N	6	5	1				4	1	1	
Dr. R. Lokesh	1	1						1		
Dr. C. Kavitha	2	1	1				2			
Dr. Yashaswini	6			1		5				1
Dr. Ashwini K R	2					2				
Dr. Daruka prasad B	5	4		1			5			
Dr. Basavaraj R B	5	5					4		1	
Dr. Harish Sharma Akkera	2	2						2		
Dr. Venkatesh R	1	1						1		
Total	30	19	2	9			15	5	2	1

Sl. No.	Title of the Paper	Name of the Author/s	Name of the Journal	ISSN	Details of publication with doi
1.	Flower-like Ag-decked non-stoichiometric Bi ₂ O _{3-x} /rGO hybrid nanocomposite SERS substrates for an effective detection of Rhodamine 6G dye molecules	Awati Prema Mahadev, C. Kavitha , Jil Rose Perutil, Neena S. John, H. C. Sudheeksha	RSC Advances , 2024,14, 11951-11968		https://doi.org/10.1039/d4ra01286k
2	<u>Highly conductive flat grains of cesium lead bromide perovskite via additive engineering with methylammonium bromide</u>	Chandra Shakher Pathak , Deepak Aloysius, Satyajit Gupta, Sabyasachi Mukhopadhyay, Eran Edri	Energy Advances		10.1039/D4YA00487F
3	Aspergillus terreus mediated green synthesis of cerium oxide nanoparticles and its neuroprotective activity against rotenone-induced cytotoxicity in SH-SY5Y cells	Sumreen Sultana, N Dhananjaya , Shital Manohar Puneekar, MB Nivedika, Rouzan AM Abusehmoud, Sunanda Arya, Thimappa	Inorganic Chemistry Communications	1387-7003	Volume 167 , September 2024, 112732

Physics department Publications-2024

		Ramachandrappa Lakshmeesha, Tekupalli Ravikiran			https://doi.org/10.1016/j.inoche.2024.112732
4	A detail investigation on quaternary, ternary, and binary fission of Nobelium	AV Mahesh Babu, N Dhananjaya , HC Manjunatha, N Sowmya	Indian Journal of Physics	0973-1458	13 August 2024, 1-9, https://doi.org/10.1007/s12648-024-03358-2
5	Reduced graphene oxide decorated orthorhombic zirconium titanate nanoparticles for display technology and supercapacitor applications	S Akshay, N Dhananjaya , YS Vidya, HC Manjunatha, R Munirathnam, S Manjunatha, M Shivanna, Suman Kumar	Inorganic Chemistry Communications	1387-7003	<u>Volume 166</u> , August 2024, 112636, https://doi.org/10.1016/j.inoche.2024.112636
6	Impact of fuel and reducing agent on photoluminescence and supercapacitor applications of rhombohedral silver gallium oxide (AgGaO ₂) nanoparticles	Kalai Chalvan, YS Vidya, HC Manjunatha, N Dhananjaya , R Munirathnam, S Manjunatha, M Shivanna, Suman Kumar, E Krishnakanth, K Manjunatha, Sheng Yun Wu	Inorganic Chemistry Communications	1387-7003	<u>Volume 164</u> , June 2024, 112346, https://doi.org/10.1016/j.inoche.2024.112346
7	Photoluminescence and supercapacitor applications of dysprosium doped rhombohedral silver gallium oxide nanoparticles	Kalai Chalvan, N Dhananjaya , HC Manjunatha, YS Vidya, R Munirathnam, S Manjunatha, M Shivanna, Suman Kumar, E Krishnakanth, K Manjunatha, Sheng Yun Wu	Materials Today Sustainability		<u>Volume 26</u> , June 2024, 100778, https://doi.org/10.1016/j.mtsust.2024.100778
8	Improved empirical formula for spontaneous fission half-lives	AV Mahesh Babu, N Dhananjaya , HC Manjunatha, N Sowmya, AM Nagaraja	Modern Physics Letters A		Vol. 39, No. 07, 2450018 (2024), https://doi.org/10.1142/S0217732324500184

Physics department Publications-2024

9	Dielectric study and electrochemical detection of ascorbic acid using modified electrode treated with europium-doped tricalcium aluminate nanoparticles	R. Lokesh , N. Dhananjaya , S.R. Yashodha , C.R. Ravikumar , S.R. Manohara	Physica B: Condensed Matter	ISSN: 0921-4526	<u>Physica B: Condensed Matter</u> <u>Volume 691, 15 October 2024, 416285</u> https://doi.org/10.1016/j.physb.2024.416285
10	Composite Nano Lanthanum Aluminate Synthesized by Phytocombustion Method: Energy Storage Devices, Sensing and Biological Applications	Yashaswini , R. Venkatesh, Y.B. Vinay kumar, A.K. Maniyar, Kavitha.B.S, N. Sivasankara Reddy, R. Jagadeesh, P. Shankar, C.R. Ravikumar, A.Jayasheelan	Nanotechnology Perceptions	1660-6795	<u>Vol. 20, S8, pp1186-1200 Jul 20, 2024,</u> https://doi.org/10.62441/nanotnp.v20iS8.95
11	Dielectric and structural properties of polyaniline-tungsten trioxide nanocomposites: For the packing of nano-electronic devices and EMI shielding	M. Nasreen Taj, B. Daruka Prasad , Narapareddy Ramarao, H. Nagabhushanad,, Ashok Reddy, K.R. Ashwini Vinutab,K. Dhanalakshmi	Nano-Structures & Nano-Objects	2352-507X	<u>Nano-Structures&Nano Objects39(2024)101219</u> https://doi.org/10.1016/j.nanoso.2024.101219
12	Electrochemical and photoluminescence properties of Zinc vanadate nanoparticles synthesized via chemical and green mediated route	Vinuta, Daruka Prasad B. , Y.S. Vidya, H.C. Manjunatha, S. Manjunatha, R. Munirathnam, M. Shivanna, Suman Kumar	Materials Science & Engineering B	0921-5107	<u>Materials Science & Engineering B 306 (2024) 117449</u> https://doi.org/10.1016/j.mseb.2024.117449
13	Oxygen evolution reaction kinetics and photoluminescence studies of zinc stannate (ZnSnO ₃ /Zn ₂ SnO ₄) nanoparticles synthesized via Aloe barbadensis miller mediated route	Vishwalinga Prasad B, H.C. Manjunatha, Y.S. Vidya, S. Manjunatha, R. Munirathnam, M. Shivanna, Ningappa C, Daruka Prasad B , Sahana R, K. Manjunatha, Sh	Materials Science and Engineering: B	0921-5107	<u>Materials Science and Engineering: B</u> <u>Volume 305, July 2024, 117427</u>

Physics department Publications-2024

		eng Yun Wu, K.N. Sridhar			https://doi.org/10.1016/j.mseb.2024.117427
14	Versatile properties of BaGd ₂ ZnO ₅ :Ho ³⁺ +nanomaterial: Compatible towards solid state lightening, anti-counterfeiting and biomedical applications	H.R. Girisha, B. Daruka Prasad , B.R. Radha Krushna H.M. Sujatha	Inorganic Chemistry Communications	1387-7003	Inorganic Chemistry Communications 159 (2024) 111711 https://doi.org/10.1016/j.inoche.2023.111711
15	Fabrication of highly flexible luminescent films, hydro gels and anti-counterfeiting applications of La ₂ MoO ₆ :Sm ³⁺ +phosphors	B.R. Radha Krushna, S.C. Sharma, B. Daruka Prasad	Journal of Science: Advanced Materials and Devices	2468-2179	Journal of Science: Advanced Materials and Devices 9(2024)100641 https://doi.org/10.1016/j.jsamd.2023.100641
16	<u>Versatile deep red-emitting SrCeO₃: Eu³⁺ nanopowders for display devices and advanced forensic applications</u>	Sanjay S Majani, RB Basavaraj , KN Venkatachalaiah, Thalari Chandrasekhar, Shiva Prasad Kollur	Journal of Solid State Chemistry	0022-4596	Volume 329, January 2024, 124360 https://doi.org/10.1016/j.jssc.2023.124360
17	<u>Enhanced photocatalytic, photoluminescence and fingerprint properties of Dy³⁺ ions doped BaZrO₃ nanopowders for multifunctional applications</u>	DP Aarti, RB Basavaraj , MB Madhusudana Reddy, Sanjay S Majani	Inorganic Chemistry Communications	1387-7003	Volume 162, April 2024, 112255 https://doi.org/10.1016/j.inoche.2024.112255
18	<u>Excellent photoluminescence and electrochemical properties of Sm³⁺ doped Ca₂MgSi₂O₇ nanophosphor: Display and electrochemical sensor applications</u>	RB Basavaraj , K Sureshkumar, DP Aarti, MB Madhusudana Reddy, G Nagaraju	Journal of Rare Earths	1002-0721	Volume 42, Issue 6, June 2024, Pages 1046-1055 https://doi.org/10.1016/j.jre.2023.06.007

Physics department Publications-2024

19	Dysprosium doped SrCeO ₃ nanophosphors for advanced photochemical applications: Synthesis, characterization, photo-assisted dye degradation and latent fingerprint visualization	Sanjay S Majani, RB Basavaraj , Muzaffar Iqbal, KN Venkatachalaiah, Shiva Prasad Kollur	Materials Science in Semiconductor Processing	1369-8001	Volume 182, 1 November 2024, 108674, https://doi.org/10.1016/j.mssp.2024.108674
20	Insights and perspectives on PVDF/MgO NCs films: Structural and optical properties for optoelectronic device applications	Shivaraj Madivalappa, R.B. Basavaraj , P.B. Chethan, D.P. Aarti, P.K. Jisha	Results in Chemistry	2211-7156	Volume 11, October 2024, 101764, https://doi.org/10.1016/j.rechem.2024.101764
21	Sol-gel spin-coated Y-doped SnO ₂ nanostructured thin films for various optoelectronic device applications	Y. Kumar, Harish Sharma Akkera , G. Srinivas Reddy, N. Kambhala	Physica B: Condensed Matter	0921-4526	https://doi.org/10.1016/j.physb.2024.415881
22	Structural, optical, and photocatalytic properties of nano-scaled g-C ₃ N ₄ materials	A. Shibu, A. Dsouza, Harish Sharma Akkera , A. S. Giresha, N. Kambhala	Applied Physics A	0947-8396	https://doi.org/10.1007/s00339-024-07563-y
23	Ion transport and dielectric relaxation in phospho-vanadate glasses containing SO ₄ ²⁻ ions	N. Sivasankara ReddyB. Sujatha, R. Venkatesh , G. Chandrashekaraiah, B P Siddalingeshwara, P. Shankar, K. Murali, C. Narayana Reddy & A. Jayasheelan	Ionics	0947-7047	<i>Ionics</i> 30 , 183–198 (2024). https://doi.org/10.1007/s11581-023-05247-w
24	<u>Single-Crystal Perovskite Halide: Crystal Growth to Devices Applications</u>	K Prakash, N JValeti, P Jain, Chandra Shakher Pathak , MK Singha, S Gupta, E	Energy Technology	2194-4296	2400618 (2024) https://doi.org/10.1002/ente.202400618

Physics department Publications-2024

		Edri, SMukhopadhyay			
25	<u>Mapping the photocurrent and photovoltage of hybrid perovskite thin films under concentrated sunlight</u>	Chandra Shakher Pathak	Macromolecular Research	1598-5032	(2024) https://doi.org/10.1007/s13233-024-00349-4
26	<u>Moringa Oleifera leaf-based zinc oxide nanoparticles: Green synthesis, characterization, and their antibacterial investigations</u>	B.S. Shashikala, K.R. Ashwini , D.R. Lavanya, Y. Jessica, Pennara Ushasri, D.V. Sunitha, G. Shobha, P. Praveen Prakash Dsouza, K. Chandra Babu Naidu	Inorganic Chemistry Communications	13877003	December 2024, 113355 https://doi.org/10.1016/j.inoche.2024.113355

Book Chapter Details						
Sl. No	Title of the Book	Title of the Book Chapter Published	Name of the Author/s	ISBN	Publisher name	Indexed in WoS/Scopus (Yes/No)
1	Comprehensive Analytical Chemistry' Volume: 106, Analytical Applications of Graphene Oxide	Graphene oxide-Surface enhanced Raman spectroscopy sensing and imaging applications	C. Kavitha	ISBN: 978-0-443-29642-0	Elsevier Book Chapter-10 Pages 267-301, 2024.	Yes
2	Nanomaterials in Environmental Analysis	Nanomaterials in assaying of pollutants by Surface-Enhanced Raman Spectroscopy	Awati Prema Mahadev, C. Kavitha	ISBN-978-0-12-820643-0	Elsevier Book , Chapter 10, 2024	Yes
3	<u>Novel Nanostructured Materials for</u>	Nanostructured electrochemical biosensors for	Yashaswini Pratibha, Y.B. Vinay	9780443153341	Elsevier	Yes

Physics department Publications-2024

	<u>Electrochemical Bio-Sensing Applications</u>	pesticides and insecticides	Kumar, K.H. Sudheer Kumar			
4	Novel Nanostructured Materials for Electrochemical Bio-Sensing Applications	Fundamentals of nanostructured materials and synthetic routes	S. Pratibha, Yashaswini,	9780443153341	Elsevier	Yes
5	Surfactant Based Electrochemical Sensors and Biosensors	Surfactant-modified electrochemical sensors and biosensors for herbicides, insecticides, fungicides, and other ecotoxic chemicals	S. Pratibha, Yashaswini, Y.B. Vinay Kumar, Nagaraja Sreeharsha	9780443154935	Elsevier	Yes
6	Nanomaterials for Biomedical and Bioengineering Applications	Metallic Nanoparticles for Biomedical Applications	Yashaswini, Swetha, G.A., Betageri, V.S., Latha, M.S., Vinaykumar, Y.B.	978-981-97-0221-3	Springer	Yes
7	Biobased Nanomaterials	Biobased Nanomaterials in Sensing Technology	Yashaswini, Venkatesh, R., Pratibha, S., Vinay Kumar	978-981-97-0542-9	Springer	Yes
8	Laser assisted machining: Processes and applications	A Review of the application of laser crack measurement of white topping road	Vinod B R, Ashwini K R	978-1-394-21357-3	WILEY	SCOPUS

Physics department Publications-2024

9	Laser assisted machining: Processes and applications	Removing Algae and Moss growth on compressed stabilized earth block wall surface by laser cleaning	Vinod B R, Ashwini K R	978-1-394-21357-3	WILEY	SCOPUS
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