Physics department Publications-2026

Number of Publications in International Journal	Total Number of journals	SCI	WOS	Scopus			Q1	Q2	Q3	Q4
				Journals	conf. Proceedings	Book chapters				
Dr. Dhananjaya. N	2	1	1	1	0	1	2			
Dr. Lokesh. R	2	1	1	1	0	1				
Dr. C. Kavitha	2	1	1	1	0	1	2			
Dr.Yashaswini	1	1	1	0	0	1	1			
Dr. Ashwini K R	2	1	0	1	1	0	1			
Dr. Daruka prasad B	4	2	2	4	0	0	4			
Dr. Basavaraj R B	7	4	3	7	0	0	6	1		
Dr. Harish Sharma Akkera	5	1	2	2	1	2	2	1		
Dr. Chandra Shakher Pathak	4	1	1	2	0	2	2			
Dr. Santra Dias	1	1	1	0	0	1	1			
Total	26									

Sl. No.	Title of the Paper	Name of the Author/s	Name of the Journal	ISSN	Details of publication with doi
1.	Chemically polymerized polyaniline: a study on the role of dopants and surfactants in modifying multi-functional properties	B. V. Sahana; R. Swetha; C. Kavitha; M. Uday Kumar; Latha Kumari	Colloid and Polymer Science. Year: 2026. Volume: 304 , Issue: 8 , Pages: 2017-2037 .	1435-1536	https://doi.org/10.1007/s00396-026-05639-0
2.	Temperature-dependent dielectric and LPG sensing performance of millet extract-mediated combustion-engineered MgAl2O4 spinel nanoparticles	S. S. Jagadeesh; N. Dhananjaya; R. Lokesh; Apsar Pasha; G. N. AnilKumar	Journal of Materials Science: Materials in Electronics. Year: 2026. Volume: 37 , Issue: 17 .	1573-482X	https://doi.org/10.1007/s10854-026-17671-5
3.	Chemical route synthesis of zincite – calcite nanoparticles for MTT assay and biomedical applications	L. Sampath Kumar; M.D. Kiran; K.R. Ashwini; K. Madhukumar; B.K. Rakesh	Next Materials. Year: 2026. Volume: 13 , Pages: 103519	2949-8228	https://doi.org/10.1016/j.nxmate.2026.103519

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4.	Effect of HNT as Secondary Reinforcement on Fracture Toughness of Epoxy-Carbon Fabric Composites	M. D. Kiran; K. M. Sathish Kumar; K. R. Ashwini	International Conference on Smart and Sustainable Developments in Materials, Manufacturing and Energy Engineering-2026		https://doi.org/10.1007/978-3-032-05542-2_14
5.	Sustainable Bio-Extract Mediated Synthesis of ZnCr2O4:Dy3+ Nanophosphors for High-Performance White LEDs	Watage S.; Basavaraj R.B.; Aarti D.P.; Sushma K.C.; Jnaneshwara D.M.	PHYSICA STATUS SOLIDI (A) APPLICATIONS AND MATERIALS SCIENCE. Year: 2026. Volume: 223 , Issue: 21 .	1862-6319	https://doi.org/10.1002/pssa.70571
6.	Tailoring the dielectric and optical properties of PMMA through NiO nanoparticle reinforcement for opto-electronic devices	Watage S.; Basavaraj R.B.	Next Materials. Year: 2026. Volume: 13	2949-8228	https://doi.org/10.1016/j.nxmate.2026.103670
7.	Development of multifunctional red-emitting Eu3+ activated BaMoO4 nanophosphors for dual-mode applications in electrochemical sensing and latent fingerprint visualization	H.S. Yogananda; S.R. Yashodha; Akshay Arjun; R.B. Basavaraj; N.P. Bhagya; G.K. Prashanth; H.S. Lalithamba; C.R. Ravikumar; P.K. Sharanya	Materials Research Bulletin. Year: 2026. Volume: 195	1873-4227	https://doi.org/10.1016/j.materresbull.2025.113831
8.	Rapid synthesis of Dy3+-doped BaY_2O_4 nanophosphors: Dual-functional material for white light emission and photocatalytic dye degradation	S.K. Kanchana; R.B. Basavaraj; P.K. Jisha; D.P. Aarti; M.B. Madhusudana Reddy; K.S. Kantharaj; Sanjay S. Majani;	Materials Science and Engineering: B. Year: 2026. Volume: 323	1873-4944	https://doi.org/10.1016/j.ceramint.2025.03.156

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		Bhavana G. Gowda			
9.	Hydrothermally synthesized Dy^{3+} doped $SrZrO_3$ nanophosphors for efficient white light emission and latent fingerprint detection	K.C. Sushma; R.B. Basavaraj; D.P. Aarti; P.K. Jisha; N. Nagaraja; K.S. Kantharaj; N. Ramprasad; H.M. Suresh Kumar; M.B. Madhusudana Reddy; G. Nagaraju; Anil S. Rathod	Next Materials. Year: 2026. Volume: 13 .	2949-8228	https://doi.org/10.1016/j.nxmate.2026.103178
10.	Engineered orange-red emitting $BaZrO_3:Sm^{3+}$ nanopowders: A comprehensive structural and optical evaluation for integration into advanced display systems and electrochemical sensing platforms	K.C. Sushma; R.B. Basavaraj; Jyothi C. Abbar; D.P. Aarti; C. Sarika; K.N. Venkatachalaiah; B.S. Ravikumar; G.R. Navyashree; G.R. Revannasiddappa	Journal of Alloys and Compounds. Year: 2026. Volume: 1061	1873-4669	https://doi.org/10.1016/j.jallcom.2026.187327
11.	Electrochemical sensing and forensic applications of Dy3+-doped Sr2MgSi2O7 Nanophosphors: Phyto-mediated synthesis, morphology and DFT studies	Sanjay S. Majani; Pallavi Singh; Omer Kaygili; Niyazi Bulut; R.B. Basavaraj; K. Sureshkumar; Kasim Sakran Abass; Chandan Shivamallu; D.M. Madesh; R. Sahana; M.S. Bindushree; S. Mohan Raj; Victor Stupin; Ekaterina Silina; Shiva Prasad Kollur	Materials Chemistry and Physics. Year: 2026. Volume: 347 .	1879-3312	https://doi.org/10.1016/j.matchemphys.2025.131447

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12.	Redox Modulation and Diffusion Kinetics in Ni-Doped CuO: Insights from Quantum-Inspired Electrochemical Methods	Lin, Tsung-Te; Yu, Shih-Lung; Wu, Yi-En; Nguyen, Hai Yen Thi; Li, Wei-Lun; Liang, Yun-Syuan; Lin, Kai-Hsun; Ho, Ming-Kang; Hsu, Tsu-En; Manjunatha, Krishtappa; Hsu, Yi-Ru; Lo, Wei-Che; Cheng, Chia-Liang; Daruka Prasad, B.; Monika, B. K.; Nagabhushana, Hanumanthappa; Chen, Meng-Chu;	ACS Applied Materials & Interfaces. Year: 2026. Volume: 18 , Issue: 17 , Pages: 24398-24418	1944-8244	https://doi.org/10.1021/ACSAMI.5C26218
13.	Nanoarchitectonics of Eu³⁺ doped Zn₂V₂O₇ phosphors for intense red luminescence and optoelectronic applications	Vinuta; Manjunatha, H. C.; Vidya, Y. S.; Manjunatha, S.; Munirathnam, R.; Shivanna, M.; Kumar, Suman; Prasad, B. Daruka	Applied Physics A. Year: 2026. Volume: 132 , Issue: 2 , Pages: 121	0947-8396 -	https://doi.org/10.1007/S00339-025-09069-7
14.	Influence of Sm³⁺ concentration on electrochemical and photoluminescence studies of ZnSnO3 nanoparticles	Prasad, B. Vishwalinga; Manjunatha, H. C.; Vidya, Y. S.; Manjunatha, S.; Munirathnam, R.; Shivanna, M.; Ningappa, C.; Prasad, B. Daruka; Sridhar, K. N.; Sahana, R.; Manjunatha, K.; Wu, Sheng Yun	Ceramics International. Year: 2026. Volume: 52 , Issue: 5 , Pages: 6128-6138 .	0272-8842.	https://doi.org/10.1016/J.CERAMINT.2025.12.369

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15.	From leaf to light: Amaranth derived red CDs as eco-friendly nanofillers in functional nanocomposites for indoor phyto illumination, active food packaging and forensic applications	Ananda, B.; Krushna, B. R. Radha; Gagana, M.; Sharma, S. C.; Anitha, R.; Tullanithi, K. M.; Mohapatra, Liza; Manjunatha, K.; Wu, Sheng Yun; Prasad, B. Daruka; Ghouse, Mohamed; Nagabhushana, H.	Colloids and Surfaces A: Physicochemical and Engineering Aspects. Year: 2026. Volume: 728 , Pages: 138483 .	1873-4359	https://doi.org/10.1016/J.COLSURFA.2025.138483
16.	Structural, magnetic and optical properties of functionally tailored TiO2 nanoparticles	Sanjay Kumar; Virendra Kumar; Manoj Kumar Bansal; Arvind Mishra; Chandra Shakher Pathak	Results in Optics. Year: 2026. Volume: 24 , Pages: 101016	2666-9501	https://doi.org/10.2139/ssrn.7387991
17.	A comprehensive review on ZnO wide-bandgap semiconductors: Materials engineering, properties, and emerging applications	Sanjay Kumar; Virendra Kumar; Chandra Shakher Pathak; Arvind Mishra; Manoj Kumar Bansal; Radhey Shyam Baghel	Results in Materials. Year: 2026. Volume: 30 , Pages: 100929	2590-048X	https://doi.org/10.1016/j.rinma.2026.100929
18.	Hexagonal to Orthorhombic Phase evolution in Ho-doped LuFeO 3 multiferroic	Saroj Vijaylakshmi, M. Rajesh Yadav, Harish Sharma Akkera, K. Rama Obulesu, Vanitha M K, Pittala Suresh	Journal of Physics: Conference Series. Year: 2026. Volume: 3246 , Issue: 1 , Pages: 012016 .		https://doi.org/10.1088/1742-6596/3246/1/012016
19.	Stoichiometry-Tuned Ni17S18 for High-Performance Energy Storage Applications	Bhargavi Somapur; Puja Agarwal; Anusha Desouza; Sithara Radhakrishnan; Harish Sharma Akkera; Chandra Shekar Rout;	PHYSICA STATUS SOLIDI (A) APPLICATIONS AND MATERIALS SCIENCE. Year: 2026. Volume: 223 , Issue: 4 .	1862-6300	https://doi.org/10.1002/pssa.202500787

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		Bramhaiah Kommula; Nagaiah Kambhala			
20.	Tailored optical band gap of Cr-doped SnO2 thin films for improved isopropanol gas sensing	Harish Sharma Akkera; Madhukar Poloju; Paramita Sarkar; Nagaiah Kambhala; Anna Mallikarjun	Journal of Materials Science: Materials in Electronics. Year: 2026. Volume: 37 , Issue: 2 , Pages: 167	1573-482X	https://doi.org/10.1007/s10854-025-16543-8

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	Advances in Emerging Materials in Electronics, Energy, and Biotechnology	Advanced Materials and Sustainable Technologies for Super Capacitors	Dr. C. Kavitha	9781003581550	Taylor and Francis group/CRC book-2026	Yes
2	Advances in Emerging Materials in Electronics, Energy, and Biotechnology	Recent Developments in Fabrication Techniques for Perovskite Solar Module	Dr. Chandarshekher Pathak, Dr. Harish S.A.	9781003581550	Taylor and Francis group/CRC book-2026	Yes
3	Advances in Emerging Materials in Electronics, Energy, and Biotechnology	Enhanced Photodetection Characteristics of Metal-Doped Lead Halide Perovskites	Dr. Harish S.A. Dr. Chandarshekher Pathak	9781003581550	Taylor and Francis group/CRC book-2026	Yes

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4.	Transport Properties of Nano Magnesium Aluminate Synthesized with Millet Extract as a Fuel	Applied Research in Engineering Sciences	S. S. Jagadeesh; N. Dhananjaya; R. Lokesh; G. N. Anil Kumar	ISBN-13	Taylor and Francis group/CRC book-2026	Yes
5	Nano-Delivering Plant Biostimulants and Anti-Pathogenic Agents	Nanotechnology-enabled pesticide delivery for sustainable plant protection	K Yashaswini, YB Vinay Kumar, S Pratibha	9780443438141	Elsevier-2026	Yes
6	Applied Research in Engineering Sciences	Cu2SnS3/ZnS Core Shell Quantum Dots for White Light Emitting Diode Applications	S Dias, KL Kumawat, S Biswas, SB Krupanidhi	9781003771104	CRC Press-2026	Yes