

SCHOOL OF PHYSICS

Research Publications (with full details in below format) for 2024-2025:

For paper (2024-2025):

Sl. No.	Name of Author, if more than one, then: 1. Author 2. Author 3. Author 4. Author, likewise	Title of paper	Name of the Journal: ISSN No.: Dol: (ISSN or Dol)	Volume: Issue No.: Year: Page Nos.:	Specify: Peer-reviewed/ UGC / SCOPUS Impact factor: (if available)
1.	Pallavi Jamwal, Neha Lalotra, Parul Sharma, Kamni	Protocol for Dy ³⁺ modified NaCaVO ₄ Na nophosphors in Solid-State Lighting Applications: Structural and Luminescence Investigations	Bulletin of Materials Science 0973-7669 10.1007/s12034-024-03229-w	47, 2024, 186	SCIE, IF: 2.1
2.	Sumara Khursheed, Jitendra Sharma	Synthesis, Structural, and Optical Studies of Reddish-Orange KCaVO ₄ :Sm ³⁺ Phosphors Embedded in PVP	Integrated Ferroelectrics 1058-4587 10.1080/10584587.2025.2482406	241(1-3), 2025, 12-30	SCIE, IF: 0.7

3.	Sajad A. Bhat, Meniak Khajuria, Rathina Mala, S.M.M. Kennedy	Host sensitized down conversion emission in $\text{KSrVO}_4:\text{Yb}^{3+}$ — A potential thermally stable phosphor for solar cell applications	Physica B: Condensed Matter 0973-7669 10.1016/j.physb.2024.416238	690, 2024, 416238	SCIE, IF: 2.8
4.	Meniak Khajuria, Sajad A. Bhat, Shivam Kumar Mittal, Rohit Raina	Up-conversion and Downshifting Luminescence from $\text{KSrVO}_4:\text{Er}^{3+}$ Nanophosphor with Judd–Ofelt Parameters	Journal of Fluorescence 1573-4994 10.1007/s10895-024-03887-3	35(6), 2024, 4931-4946	SCIE, IF: 3.1
5.	Sajad A. Bhat, Rathina Mala, Meniak Khajuria	Spectroscopic study and Judd–Ofelt analysis of Ho^{3+} activated vanadate phosphor: a potential green emitting candidate for WLED applications	Applied Physics A 1432-0630 10.1007/s00339-024-08136-9	131, 2025, 24	SCIE, IF: 2.8

6.	Sajad A Bhat, MeniakKhajuria, Rathina Mala, SMM Kennedy, KM Nissamudeen,	Spectroscopic study and Judd-Ofelt analysis of NaSrVO ₄ :Ho ³⁺ – A thermally stable green emitting phosphor for WLED applications	Journal of Molecular Structure 1432-0630 10.1016/j.molstruc.2025.141874	1335, 2025, 141874	SCIE, IF: 4.7
7.	Meniak Khajuria, Sajad A. Bhat, Rohit Raina and Pankaj Biswas	Upconversion luminescence and Judd-Ofelt analysis of Er ³⁺ doped NaSrVO ₄ inorganic phosphor	Journal of Materials Science: Materials in Electronics 1573-482X 10.1007/s10854-025-14860-6	36, 2025, 801	SCIE, IF: 2.8
8.	V. D. Sharma, Pooja Khajuria, Arti Khajuria, Ram Prakash, R. J. Choudhary	Photoluminescent and X-ray photoemission studies of Eu ³⁺ -doped kosnarite KZr ₂ (PO ₄) ₃ nanophosphor and its Judd-Ofelt analysis	Journal of Nanoparticle Research 1388-0764 10.1007/s11051-024-06073-5	26, 2024, 166	SCIE, IF: 2.6
9.	Pooja Khajuria, V. D. Sharma, I. Kumar, Arti Khajuria, Ram Prakash, R. J. Choudhary	Optoelectronic properties of Na ₂ ZrO ₃ :Eu ³⁺ phosphor:	Journal of Alloys and Compounds 0925-8388 10.1063/5.0224799	1025, 2025, 180268	SCIE, IF: 6.3

		Judd-Ofelt insights and applications in solid-state lighting and latent fingerprinting			
10.	Ram Prakash, V. D. Sharma, Pooja Khajuria, Arti Khajuria	Synthesis And Spectral Investigation Of Sm ³⁺ Doped KZr ₂ (PO ₄) ₃ Phosphor	AIP Conference Proceedings 0094-243X 10.1063/5.0224800	3198(1) , 2025, 020023	Scopus
11.	Arti Khajuria, V. D. Sharma, Pooja Khajuria, Ram Prakash;	Synthesis, down-conversion luminescence, and Judd-Ofelt analysis of Eu ³⁺ ions activated in K ₂ MgP ₂ O ₇ nanophosphor	Physica B: Condensed Matter 0921-4526 10.1063/5.0224801	698, 2025, 416750	SCIE, IF: 2.8
12.	Pooja Khajuria, V. D. Sharma, Arti Khajuria, Ram Prakash, R. J. Choudhary	Synthesis and Spectroscopic Investigations of Sm ³⁺ Activated ZrO ₂ and Na ₂ ZrO ₃ as Warm Light Phosphors	Journal of Fluorescence 1053-0509 10.1063/5.0224802	35, 2025, 2023–2038	SCIE, IF: 3.1
13	Arti Khajuria, V. D. Sharma, Pooja Khajuria, Ram Prakash	Sm ³⁺ Activated Potassium Magnesium Pyrophosphor	Journal of Fluorescence 1053-0509	35, 2025, 11455-11470	SCIE, IF: 3.1

		te Nanophosphor: Synthesis, Structure, Optical and Luminescence Studies	10.1063/5.0224803		
14.	S. A. Bhat, R. A Ahmad, Meniak Khajuria, P. Biswas	Surface and spectral investigations of NaCaVO ₄ :Tb ³⁺ : a green component phosphor for WLEDs	Bulletin of Materials Science 0250-4707 10.1007/s12034-024- 03252-x	47, 2024, 197	SCIE, IF: 2.1

**Conferences/Workshops/Seminars/Short term Courses/FDP/MDPs/Attended/Presented
(2024-2025)**

Sl. No	Name of the Faculty	Title of the Seminar/Conference/Workshop and Dates & Year	Title of the Talk (if presenter)	Organizing agency	Invited lecture/Resource person/Keynote speaker/Paper presenter/Plenary speaker Or Simply Attended	National/ International (abroad)/ International (within the country)/ State/University
1	Dr. Ram Prakash	International conference in Asia 2024 (IUMRS-2024) at Indore, MP India 3-6 December 2024	Structural, Photoluminescent, and photoemission studies of Sm ³⁺ Doped KZr ₂ (PO ₄) ₃	CSR, Indore	Paper presenter	International (within the country)

			nanophosphor			
2	Dr. Ram Prakash	3rd International Conference on Emerging Trends in Biosciences and Chemical Technology (ETBCT-2025).14-15 February 2025	Photoluminescent, and photoemission studies of $KZr_2(PO_4)_3:Eu^{3+}$ phosphor	SOBT, SMVDU	Paper presenter	International (within the country)
3	Dr. Ram Prakash	One day workshop on On best practices on administrative procedure Green Manufacturing held on 4 th March 2025	-	MP-UHA SMVDU	Simply Attended	University
4	Dr. Ram Prakash	One-week Short Term Programme (Online) on “Sustainable Product Design and Manufacturing” held during 22-27 July- 2024 (one week)	-	FDC. SMVDU	Simply Attended	National
5	Dr. Ram Prakash	One day hands on training session on GEM held on 30 April 2025	-	MP-UHA SMVDU	Simply Attended	University

6.	Dr. Jitendra Sharma	The Asia-Pacific conference on Condensed Matter Physics 2024 (AC2MP-2024), IIT Patna 8-11 th December, 2024	Luminescent Nanoparticles and Composites	IIT Patna under the auspices of the Division of Condensed Matter Physics, The Association of Asia-Pacific Physical societies (DCMP-AAPPS)	Invited Lecture	International (within country)
7.	Dr. Jitendra Sharma	Nurturing Future Leadership Programme 18-22 nd November, 2024	-	IIM, Jammu under the aegis of Malaviya Mission Teacher Training Program (MMTTP)	Attended	National
8.	Dr. Jitendra Sharma	Two Days ANRF Sponsored National Workshop on “Low and Medium Temperature Waste Heat Recovery in Process Heat Applications” 6-7 th February, 2025	-	School of Mechanical Engineering, Shri Mata Vaishno Devi University, Katra	Attended	National