

Department of Chemistry, Maharshi Dayanand University, Rohtak

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- ✓ [AU-ID ("Singh, Devender" 5722077784)] [h-index=51, i10 index=173, I-5 index=205]
- ✓ <https://orcid.org/0000-0002-2180-5049> [Citations = 7032]
- ✓ <https://scholar.google.com/citations?user=4DBKKZIAAAJ&hl=en>
- ✓ <https://www.researchgate.net/profile/Devender-Singh-11/publications>

❖ **Ranked in top 2% of World leading Scientists database released by Stanford University USA and Elsevier (2025, 2024, and 2023).**

❖ **Research Excellence Award (2022) and Best Researcher Award (2023) of Maharshi Dayanand University, Rohtak, Haryana.**

❖ Presently working in the research fields of energy materials

- Synthetic Chemistry of Organic Moieties and Metal-Complexes
- Advanced Phosphor (Up and Down converters) and OLED Materials (Metal-Complexes)
- Fabrications of EL Devices with Inorganic and Organic Light Emitting Materials
- Solar Cells (Thin Solar Films and DSSC) and Sensors
- Trace Metal Determination in Biological, Food, Soil samples etc.

❖ Academic Societies/Associations Affiliated

- Life Member of Indian Science Congress Association (ISCA-L-12745)
- Life Member of Chemical Research Society of India (CRSI-LM-924/2007)
- Life Member of Material Research Society of India (MRSI-LM B-942/2007)
- Life member of Chemical council of Chemist (ICC-LF-1232/2007)
- Life Member of Indian Society of the Analytical Scientist-Delhi Chapter (ISAS-DC-LM-41/2013)
- Life member of Society for Materials Chemistry (SMC-LM-863)
- Fellow Member of International Congress of Chemistry and Environment (FICCE)
- Member of Korean Institute of Chemical Engineers (KICChE)
- Member of Material Research Society of Singapore (MRS)

❖ Abroad Visits

- Visited the **Nanyang Technological University** and **National Singapore University, Singapore** for a week [2023].
- Visited **Freie Universität Berlin, Germany** for Collaborative research programme [2018].
- Visited the **Nanyang Technological University** and **National Singapore University, Singapore** for a week [2016].
- Visited the Centre of Physics, Universidade do Minho, Braga, Portugal on FP7/IRSES **European Union -Marie Curie International Research Staff Exchange Scheme** for doing research work on the International Research Project based on the **"DEVELOPMENT OF A NEW GENERATION OF CIGS-BASED SOLAR CELLS"** [NANOCIS- 269279]. [2014]
- Visited the Centre of Physics, Universidade do Minho, Braga, Portugal on FP7/IRSES **European Union -Marie Curie International Research Staff Exchange Scheme** for doing research work on the International Research Project based on the **"DEVELOPMENT OF A NEW GENERATION OF CIGS-BASED SOLAR CELLS"** [NANOCIS- 269279]. [2013]
- Visited the Centre of applied Physics, Universidade do Politecnica, Valencia, Spain on FP7/IRSES for doing research work on the International Research Project based on the **"DEVELOPMENT OF A NEW GENERATION OF CIGS-BASED SOLAR CELLS"** [NANOCIS- 269279]. [2013]
- Visited the Sensors and Material Research Centre of **Korea Institute of the Energy Research, S. Korea**, for research work under the collaboration of the KIER and M.D. University, Rohtak, INDIA. [2004]

❖ Research Papers

Published in Journals	:	275	
Presented in Conferences	:	36	(14 International + 22 National)
Book Authored	:	03	
Book Chapters	:	08	

❖ Research Guidance –10 Scholars have been awarded Ph.D on the following topics:-

10. Synthesis, Structural and Optical Analysis of Phosphor Materials for Lighting Applications (**Pawan Kumar, 2024**)
9. Optoelectronic study of Luminescent metal complexes for displays (**Anjali, 2023**)
8. Synthesis and optoelectronic analysis of rare-earth doped phosphors (**Isha Gupta, 2023**)
7. Preparation and luminescent characteristics of heterocyclic ligand based rare earth metal complexes for OLEDs applications (**Kapeesha Nehra, 2022**)
6. Synthesis and optoelectronic characteristics of Rare earth metal complexes for display applications (**Anuj, 2022**)
5. Structural and Photoluminescent characteristics of Phosphor Materials for Display Applications (**Sitender- 2021**)
4. Structural studies of Aluminate Phosphor Materials" (**Sonika**) (**Ph. D** awarded in **Aug, 2018**)
3. Synthesis and Characterization of Luminescent Materials (**Suman**) (**Ph. D** awarded in **Aug, 2017**)
2. Synthesis and Optoelectronic Characterization of Heterocyclic Ligand Based Metal Complexes (**Shri Bhagwan -2016**)
1. Synthesis and Optoelectronic Characterization of Mixed Metal Oxide Phosphors(**Vijeta Tanwar**) (**April, 2016**)

Scholars presently registered /working – 09

- Sonia, Vandana, Sofia, Swati, Bharti, Rishu, Rinki, Meghna and Ekta are working on Optoelectronic Light Emitting Materials.

❖ Educational qualifications

Degree	Year of passing	University/ Institute
Ph.D (Chemistry)	2005	In Collaboration of Korea Institute of Energy Research (KIER), Daejeon, South Korea & Maharshi Dayanand University, Rohtak, India.
M.Sc (Chemistry)	2001	Maharshi Dayanand University, Rohtak, Haryana, India
B.Sc	1999	Maharshi Dayanand University, Rohtak, Haryana, India

❖ Career profile

Designation	Institution served	Duration	
Professor (Full) of Chemistry	Department of Chemistry, Maharshi Dayanand University, Rohtak	12 July, 2021	Till now
Associate Professor of Chemistry	Department of Chemistry, Maharshi Dayanand University, Rohtak	12 July, 2018	11 July, 2021
Assistant Professor [Stage III]	Department of Chemistry, Maharshi Dayanand University, Rohtak	12 July, 2015	11 July, 2018
Assistant Professor [Stage –II]	Department of Chemistry, Maharshi Dayanand University, Rohtak	12 July, 2010	11 July, 2015
Assistant Professor [Stage –I]	Department of Chemistry, Maharshi Dayanand University, Rohtak	14 June, 2010	11 July 2010
Assistant Professor [Stage –I]	Pt. NRS Govt. College, Rohtak	27 Sept. 2008	14 June, 2010
Assistant Professor [Stage –I]	Government P.G. College, Jhajjar	12 July, 2006	27 Sept. 2008
Lecturer (Assistant Professor)	University Institute of Engineering and Technology (UIET) M. D. University, Rohtak	14 Nov, 2005	12 July, 2006
Lecturer (Guest/Contractual)	UIET (Earlier-Department of Engineering & Technology), M. D. University, Rohtak	16Aug., 2005	25 Oct.,2005

❖ Training Programmes

Name of the Training programme	Organized by the organization	Date of event
One week Faculty Development Programme on “ <i>Community Service and Sustainable Society</i> ” (online)	AICTE Training and Learning(ATAL) Academy with M.D. University, Rohtak	05.10.2021 to 09.10.2021
One week Faculty Development Programme on “ <i>Spectroscopic and Analytical Techniques: Applications</i> ”(online)	J.C. Bose University of Science & Technology, YMCA, Faridabad	25.05.2020 to 29.05.2020
One week Faculty Development Programme on “ <i>Advances in Research Methodology and Data Analysis</i> ” (online)	Ch. Bansi Lal University, Bhiwani	14.05.2020 to 20.05.2020
One week Faculty Development Programme on “ <i>MOOCs and E-learning Technologies</i> ” (online)	Faculty Development Centre M.D. University, Rohtak	10.04.2020 to 15.04.2020
One week workshop-course on “ <i>Greener Strategies for organics and nanomaterials</i> ”	Department of chemistry, GJUST, Hisar (Sponsored by: GIAN-MHRD)	25.11.2016 to 29.11.2016
Short Term Course (STC) on Research Methodology (All discipline)	HRDC-Kurukshetra University, Kurukshetra	28.04.2016 to 04.05.2016
Refresher Course (Chemistry) Himachal Pradesh University, Shimla, Himachal Pradesh.	Himachal Pradesh University, Shimla, Himachal Pradesh.	19.11. 2012 to 08.12. 2012
Training course on “ <i>Capacity Building for Lecturers of Higher Education</i> ” conducted by HIPA, Gurgaon, Haryana.	HIPA, Gurgaon, Haryana	29.06.2009 to 03.07. 2009
Training for Eduset on “Script Writing” at NITTR, Chandigarh	NITTR, Chandigarh	03 – 07 Nov. 2008
Refresher Course of Chemistry organized by DGHE at Pt. NRS Govt. College, Rohtak	Pt. NRS Govt. College, Rohtak	05 – 25 May 2008
Induction Training Programme on “Induction Training Programme for newly recruited Government Lecturers at HIPA, Gurgaon, Haryana.	HIPA, Gurgaon, Haryana.	28 May to 15 June 2007
Orientation Course at Himachal Pradesh University, Shimla, Himachal Pradesh.	Himachal Pradesh University, Shimla, Himachal Pradesh.	01 – 30 April 2007

❖ Project undertaken

Title of the project	Duration	Funding agency	Status
DST-FIST Programme of Chemical Sciences (Rs. 1.92 Cr)	2025-2030	DST, New Delhi	Ongoing
Rare-earth Activated Luminescent Nanomaterials: Development and their Emerging Applications (Rs. 5,00,000/-)	2022 onwards	MDU, Rohtak	Completed 2025
Fluorescence Characteristics of π -conjugated Lanthanide-metallopolymers for Light Emitting Applications (Rs 34,31,890/-)	2017-2020	SERB-DST New Delhi	Completed 2021
Growth and Opto-electronic Characterization of the Phosphor Materials (Rs 9,58,560/-)	2011-2014	University Grant Commission, New Delhi	Completed 2015

❖ Publications Book Authored – 03 and Book Chapter-08

Name of book/Chapter	Publisher	ISBN
Chapter 11: Greener Organic Light-emitting Device technology for Sustainable Development doi.org/10.9734/bpi/mono/978-93-49473-39-3/CH11	Advancements in Science and Technology: Paving the Way to a Sustainable Future, March 2025, Page 104-112	9789349473393
Chapter 3 : Synthesis Approaches of Recent Green Nanomaterials in Energy Storage: An overview DOI: 10.1021/bk-2024-1488.ch003	Materials for Boosting Energy Storage. Volume 3: Advances in Sustainable Energy Technologies ACS Book series	9780841296565
Chapter 2: Persistent Luminescence in comparison to Phosphorescence” doi.org/10.1007/978-981-97-4943-0_1	Persistent Luminescence: Fundamentals, Mechanisms and Applications (Sept, 2024) in Springer series, Progress in Optical Science and Photonics	978-981-97-4943-0
Chapter 10: Therapeutic Potential of Benzopyrones against Antiparasitic Diseases doi.org/10.1007/978-981-19-9605-4_10	Natural Product Based Drug Discovery Against Human Parasites: Opportunities and Challenges (Jan, 2023) Springer Singapore	978-981-199604-7 978-981-19-9607-8
Chapter 11: Polymers with carbon-based quantum dot for energy storage doi.org/10.1016/B978-0-323-99549-8.00004-2	Polymer Blend Nanocomposites for Energy Storage Applications (July, 2023, pp311-343), Elsevier	9780323995498 9780323995641
Chapter 12:Recent Developments in Dye-Sensitized Solar Cells and Potential Applications doi.org/10.1002/9781119407690.ch12	“Advanced Photovoltaic Materials” (Oct 2018) Advanced Materials Book Series WILEY-Scrivener Publisher, USA	9781119407546
Chapter 10: Recent Advancements in Luminescent Materials and Their Prospective Applications doi.org/10.1002/9781119241966.ch10	“Advanced Magnetic and Optical Materials” (Nov, 2016) Advanced Materials Book Series WILEY-Scrivener Publisher, USA	9781119241911
Chapter 14: Developments in Organic Light Emitting Materials and Their Potential Applications doi.org/10.1002/9781119241966.ch14	“Advanced Magnetic and Optical Materials” (Nov 2016) Advanced Materials Book Series WILEY-Scrivener Publisher, USA	9781119241911
Comprehensive Coordination & Organometallic Chemistry	Ane Books Pvt. Ltd. New Delhi (Jan, 2018)	9789386761422
Comprehensive Nuclear Chemistry Fundamental and Applications	Book World Publisher, New Delhi (Dec, 2016)	9788192288543
Comprehensive Engineering Chemistry	I. K. International Publisher, New Delhi. (Aug 2008)	9788189866556

❖ Awards and distinctions

- Got the Best paper presentation Awards of Chemical Sciences in the Indian Science Congress Association, 2008, held at Vishakhapatnam, Andhra Pradesh.

❖ Assignment with in the M.D. University, Rohtak. (Activities/Assignments)

- Chairman/HOD, Department of Chemistry
- Member of Academic Council, Faculty of Physical Sciences, U.G and P.G Board of Studies, MDU
- Chairman of U.G and P.G Board of Studies of Chemistry, MDU
- Expert at PGBOS of Deptt of Chemistry, DCRUST, Murthal, Sonapat
- Expert at DRC of Deptt of Chemistry, CUH, Mahendergarh
- Coordinator of one week Workshop on Research Methodology organized by CRSIS&EC, MDU. (2025)
- Convener of International Conference on “Emerging Trends in Functional Materials in Sciences” (Nov 2024).
- Worked as organizer for National Conference on “Recent Trends in Materials and Life Sciences” (Sept 2023).
- Worked as organizer and Treasurer for the 1st Chemistry Alumni Meet (Mar., 29, 2018).
- Hostel Warden of Boys Hostel -III (Himalaya) and Boys Hostel -V (Udiagiri) (since Aug 2010 to July 2018).
- Worked as organizer in the National Conference on Recent Advances in Chemical Sciences (NCRACS-2018) organized by Department of Chemistry, Maharshi Dayanand University, Rohtak, Haryana (Mar., 7, 2018).
- Worked as organizer for National Youth Festival 2017 and Inter Zonal Youth Festival (IZYF-2024, IZYF-2023, IZYF-2016 & IZYF-2017)
- Worked as organizer and Treasurer in the National Conference on Advances in Chemical Sciences (ACS-2013) organized by Department of Chemistry, Maharshi Dayanand University, Rohtak, Haryana (Mar., 1-2, 2013).
- Worked as organizer in the National Conference on Thermodynamics and Biological System (NCTBS-2011) organized by Department of Chemistry, Maharshi Dayanand University, Rohtak, Haryana (Nov. 26-28, 2011).
- Worked as organizer in the SCIENCE CONCLAVE organized by Maharshi Dayanand University, Rohtak, Haryana (Dec., 2-3, 2011).

❖ List of Publications in Reputed Journals

Sr. No.	Title with name of author(s) as appearing in the publication	Journal name, Vol, Year, pages	ISSN / ISBN	Impact Factor 2024 (TR)	
275	<i>Samarium(III) Complexes as Potential Orange-Red Light Emitters: A Comprehensive Study on the Influence of Coordination Environment</i> Sofia Malik, Komal Jakhar, Devender Singh , Swati Dalal, Sonia Redhu, Sumit Kumar, Parvin Kumar, Jayant Sindhu	Journal of Molecular Structure 1349, 2026, 143870	0022-2860	4.7	
274	<i>Structure-Property Correlations in Terbium Complexes: Influence of 1,10-Phenanthroline Substituents and Fluorinated β-Diketones on Green Emission</i> Sonia Redhu, Devender Singh* , Kapeesha Nehra, Anjali Hooda, Sumit Kumar, Rajender Singh Malik, Parvin Kumar and Jayant Sindhu	Dyes and Pigments 2025 Accepted	1873-3743	4.2	
273	<i>Pyrazine-Driven Dinuclear Assembly of Dysprosium(III) β-Diketonate Complex: A Fluxidentate Bridging Approach Toward Functional Near-White Luminescent Materials</i> Vandana Aggarwal, Devender Singh* , Sonia Redhu, Shri Bhagwan, Sumit Kumar, Rajender Singh Malik, Parvin Kumar and Jayant Sindhu	RSC Advances, 2025 Accepted	2046-2069	4.6	
272	<i>Development of Template Assisted Biologically Active Macrocyclic Complexes: Structural Characterization and Apoptotic Studies</i> Jai Kumar, Ramesh Kumar, Jitender Kumar Bhardwaj, Devender Singh , Harish Kumar, Arti Jangra, Praveen Kumar	Applied Organometallic Chemistry 2025 Accepted doi.org/10.1002/aoc.70418	1099-0739	4.1	
271	<i>Dysprosium(III) Complexes as Potential Near-White Light Emitters: A Comprehensive Study on the Influence of Coordination Environment</i> Sofia Malik, Komal Jakhar*, Devender Singh* , Pawan Kumar, Sumit Kumar, Rajender Singh Malik and Parvin Kumar	Materials Advances 06, 2025, 7505-7516 DOI: 10.1039/d5ma00632e	2633-5409	4.7	
270	<i>Quinoxaline appended 1,2,3-triazole: A "turn off" fluorescent probe for selective Fe³⁺ ion recognition</i> Laxmi Narayan, Jayant Sindhu, Ashwani Kumar, Devender Singh , Sohan Lal, Harish Kumar, Sudhir Kumar and Parvin Kumar	Microchemical Journal 218, 2025, 115247	0026-265X	5.1	
269	<i>Brominated β-Diketone-Driven Luminescence in Europium(III) Complexes: Insights from Spectroscopic, DFT and Judd-Ofelt Analysis</i> Sofia Malik, Komal Jakhar, Devender Singh , Pawan Kumar, Sumit Kumar, Rajender Singh Malik, Parvin Kumar	Emergent Materials 2025, Accepted doi.org/10.1007/s42247-025-01219-0	2522-574X	4.1	
268	<i>Ancillary ligand-dependent photophysical modulation in Tb(III) complexes with halogenated diketones</i> Author links open overlay panel Sofia Malik, Komal Jakhar, Devender Singh , Sonia Redhu, Vandana Aggarwal, Sumit Kumar, Rajender Singh Malik, Parvin Kumar	Inorganic Chemistry Communications 181, 2025, 115231	1873-426X	5.4	
267	<i>Fluorinated analogues of β-diketone based samarium complexes: Photophysical properties and role of N-donor secondary ligands</i> Swati Dalal, Devender Singh , Sonia Redhu, Kapeesha Nehra, Vandana Nishal, Sumit Kumar, Parvin Kumar, Jayant Sindhu	Journal of Molecular Structure 1347, 2025, 143275	0022-2860	4.7	
266	<i>Polyamideimide/MWCNTs Nanocomposite Impregnated With Polypyrrole for High-Efficiency Electromagnetic Interference Shielding in X-Band</i> Priyanka Rani, Bhanu Gupta, Rinki Malik, Devender Singh , Rajender Singh Malik	Journal of Applied Polymer Science 142, 2025, e57534 doi.org/10.1002/app.57534	0021-8995	2.8	
265	<i>Judd-Ofelt analysis and optoelectronic properties of red-emissive Eu(III) complexes with fluorinated β-diketones and N-heterocyclic ligands</i> Sonia Redhu, Devender Singh , Anjali Hooda, Kapeesha Nehra, Sumit Kumar, Rajender Singh Malik, Parvin Kumar, Jayant Sindhu, Harish Kumar	Materials Science in Semiconductor Processing 199, 2025, 109826	1873-4081	4.6	
264	<i>Optimizing luminescent properties of europium(III) ion chelates with β-diketone and ancillary ligands: Insights into opto-electronic characteristics and Judd-Ofelt calculations</i> Vandana Aggarwal, Devender Singh , Anjali Hooda, Komal Jakhar, Sumit Kumar, Rajender Singh Malik, Parvin Kumar	Chemical Physics Letter 876, 2025, 142244	0019-4522	3.1	
263	<i>Decoding ZnO: multifunctional properties via theory and experiment</i> Parul, Harish Kumar, Minakshi, Antresh, Kumar, Parvin Kumar, Bindu Mangla, Devender Singh ,	Materials Letter 397, 2025, 138814	0167-577X	2.7	
262	<i>Designing luminescent Eu(III) complexes with heteroligands: A comprehensive spectroscopic, DFT and Judd-Ofelt study</i> Redhu, Sonia, Devender Singh , Sofia Malik, Anuj Dalal, Sumit Kumar, Rajender Singh Malik, Parvin Kumar, Jayant Sindhu,	Journal of Luminescence 286, 2025, 121364	1872-7883	3.6	
261	<i>DFT Studies and Experimental Characterization of Eu³⁺ Complexes in Different Coordinating Environment: A Comprehensive Approach to Luminescence and Applications in Display Technologies</i> Vandana Aggarwal, Devender Singh , Pawan Kumar, Swati Dalal, Sumit Kumar, Rajender Singh Malik, Parvin Kumar, Jayant Sindhu, Harish Kumar	Journal of Molecular Structure 1342, 2025, 142781	0022-2860	4.7	
260	<i>Design and synthesis of new 1,4-naphthoquinones appended sulfenylated thiazoles as cyclooxygenase II inhibitors: Exploring the utility in the development of anticancer agents</i> Priyanka; Payal Rani; Anju Rania; Kiran; Gaurav Joshi; Snigdha Singh;	Bioorganic Chemistry 2025, 161, 108537	1090-2120	4.7	

	Roshan Kumar; Muhammad Wahajuddin; Parvin Kumar; Devender Singh , Jayant Sindhu				
259	<i>Exploring the Structural Versatility and Dynamic Behavior of Acyl/Aroyl Hydrazones: A Comprehensive Review</i> Kulbir Kadyan, Rahul Singh, Jayant Sindhu, Parvin Kumar, Meena Devi, Sohan Lal, Ashwani Kumar, Devender Singh , Harish Kumar	Topics in Current Chemistry 383, 2025, 18	2365-0869	8.8	
258	<i>An indolium inspired portable colorimetric sensor for cyanide recognition in environmental samples with smartphone integration</i> Kiran, Ranolia, Anju, Priyanka, Anil Duhan, Rahul Kumar Dhaka, Snigdha Singh, Gaurav Joshi, Parvin Kumar, Devender Singh , Muhammad Wahajuddin, Jayant Sindhu	RSC Advances, 15(12), 2025, pp. 9129 –9140	2046-2069	4.6	
257	<i>Design and development of sulfenylated 5-aminopyrazoles as inhibitors of acetylcholinesterase and butyrylcholinesterase: exploring the implication for Aβ1-42 aggregation inhibition in Alzheimer's disease</i> Payal Rani, Sandhya Chahal, Anju Ranolia, Kiran, Devendra Kumar, Ramesh Kataria, Parvin Kumar, Devender Singh , Anil Duhan, Vibhu Jha, Muhammad Wahajuddin, Gaurav Joshi	RSC Medicinal Chemistry 16, 2025, 2832-2847	2632-8682	4.1	
256	<i>White Light Emission from a Ternary Dysprosium Complex: Energy Transfer and Ligand-Driven Modulation</i> Vandana Aggarwal, Devender Singh* , Kapeesha Nehra, Swati Dalal, Sonia Redhu, Parvin Kumar, Sumit Kumar and Rajender Singh Malik	Materials Science in Semiconductor Processing 192, 2025, 109427	1873-4081	4.6	
255	<i>Unveiling The Impact of 2-D Materials on The Gas Sensing Properties of Metal Oxides: A Review</i> Sakshi Bisht, Neeraj Dhariwal, Preety Yadav, Meenu Chahar, Vinod Kumar, Devender Singh	Journal of Environmental Chemical Engineering 13, 2025, 115980	2213-3437	7.4	
254	<i>Frequency-dependent electrical conductivity and impedance analysis on KCl-doped tellurite-based glasses</i> Komal poria, Sunil Dhankhar, R. S. Kundu, Devender Singh , Rajesh Parmar	Material Research bulletin 187, 2025, 113358	1873-4227	5.3	
253	<i>Non-template Tailored Macrocyclic Complexes: Synthesis, Characterization, Biological and Computational Studies</i> Jai Kumar, Ramesh Kumar, Devender Singh , Harish Kumar, Arti Jangra, Praveen Kumar Gupta	Applied Organometallic Chemistry 39, 2025, e70022	1872-8561	2.1	
252	<i>Colorimetric reversibility: Aqueous phase recognition of cyanide using smart phone-based device with real sample analysis</i> Jyoti Jangir, Kiran, Anju Ranolia, Priyanka, Sandhya Chahal, Snigdha Singh, Anil Duhan, Rahul Kumar Dhaka, Devender Singh , Parvin Kumar, Jayant Sindhu	Microchemical Journal 208, 2025, 112259	0026265X	5.1	
251	<i>Key molecular scaffolds in the development of clinically viable α-amylase inhibitors</i> Rahul Singh, Jayant Sindhu, Devender Singh , Parvin Kumar	Future Medicinal Chemistry 17, 2025, DOI 10.1080/17568919.2025.2453421	1756-8927	3.2	
250	<i>Synthesis Strategies for Rare Earth Activated Inorganic Phosphors: A Mini Review</i> Sitender Singh, Devender Singh , Preeti Siwach, Isha Gupta and Pawan Kumar	Applied Research 4, 2025, e202400190 DOI: 10.1002/appl.202400190	2702-4288	- -	
249	<i>Harnessing the power of Carbohydrates: Chitosan and starch-based nanocomposites for sustainable developments</i> Ankit Dhayal, Harish Kumar, Bindu Mangla, Devender Singh	Inorganic Chemistry Communications 171, 2025, 113597	1873-426X	5.4	
248	<i>Exploring the Influence of Emissive Centers in Mono and Dinuclear Europium(III) Complexes for Advance Lighting Applications: Synthesis, Characterization and Computational Modelling</i> Vandana Aggarwal, Devender Singh , Shri Bhagwan, Raman Kumar Saini, Komal Jakhar, Rajender Singh Malik, Parvin Kumar, Jayant Sindhu	Journal of Molecular Structure 1324, 2025, 140841	0022-2860	4.7	
247	<i>Synthesis, C-N/N-N Bond Conformational Analysis and Evaluation of Naphtho[2,3-d][1,2,3]triazole-4,9-dione tethered N-acyl Hydrazones as α-Amylase Inhibitors: Insights from Molecular Modeling and ADMET Analysis</i> Meena Devi, Jayant Sindhu, Rahul Singh, Sohan Lal, Ashwani Kumar, Devender Singh , Harish Kumar, Parvin Kumar	Journal of Molecular Structure 1322, 2025, 140390	0022-2860	4.7	
246	<i>Template-engineered trivalent iron and chromium containing macrocyclic complexes: Characterization and in vitro studies</i> Jai Kumar, Ramesh Kumar, Arti Jangra, Devender Singh , Harish Kumar, Suresh Kumar, Parvin Kumar, Radhika Khanna,	Surface Review and Letters 32, 2025, 2450129	0218625X	1.2	
245	<i>Multicomponent Synthesis of 2,4,5-Trisubstituted Thiazoles Using a Sustainable Carbonaceous Catalyst and Assessment of Its Herbicidal and Antibacterial Potential</i> None Shweta, Sandhya Chahal, Rahul Kumar Dhaka, Anuj Rana, Gaurav Joshi, Rajvir Singh, Snigdha Singh, Devender Singh , Parvin Kumar, Jayant Sindhu	Journal of Agricultural and Food Chemistry 72(50), 2024, 27762-27774	0021-8561	5.7	
244	<i>Tuning Emissive Color of Trivalent Terbium Ion through Environmental Factors: Optoelectronic Insights from Theoretical, Spectral and Computational Studies</i> Vandana Aggarwal, Devender Singh , Shri Bhagwan, Raman Kumar	RSC Advances 14, 2024, 39569-39587	2046-2069	4.6	

	Saini, Komal Jakhar, Sumit Kumar, Parvin Kumar, Jayant Sindhu				
243	<i>Advances in Nanomaterials based Electrochemical Sensors for Rapid Detection of Food Additives: A Comprehensive Review</i> Harish Kumar, Rajni Kumari, Devender Singh , Bindu Mangla	Trends in Analytical Chemistry 181, 2024, 118011	1879-3142	11.8	
242	<i>Indole analogs as potential anti-breast cancer agents: Design, synthesis, in-vitro bioevaluation with DFT, molecular docking and ADMET studies</i> Renu Gavadia, Jyoti Rasgania, Neetu Sahu, Surendra Nimesh, Lacy Loveleen, Satbir Mor, Devender Singh and Komal Jakhar	Journal of the Indian Chemical Society 101(11), 2024, 101404	0019-4522	3.2	
241	<i>Naphthoquinone fused diazepines targeting hyperamylasemia: Potential therapeutic agents for diabetes and cancer</i> Sandhya Chahal, Payal Rani, Rajvir Singh, Gaurav Joshi, Roshan Kumar, Parvin Kumar, Deepak Wadhwa, Devender Singh	Future Medicinal Chemistry 16, 2024, 2231-2245	1756-8927	3.2	
240	<i>Synthesis and Photoluminescent Studies of Orange-Red Emissive Samarium(III) Complexes with 1,1,1-trifluoro-5,5-dimethyl-2,4-hexanedione and 2,2'-bipyridine and its Distinctive Analogous</i> Sonia Redhu, Devender Singh , Anjali Hooda, Anuj Dalal, Vandana Aggarwal, Komal Jakhar, Sumit Kumar, Rajender Singh Malik, Parvin Kumar, Jayant Sindhu	Inorganica Chimica Acta 572, 2024, 122306	ISSN: 0020-1693	3.2	
239	<i>Structural attributes driving λ_{max} towards NIR region: A QSPR approach</i> Payal Rani, Sandhya Chahal, Priyanka, Parvin Kumar, Devender Singh , Jayant Sindhu	Chemometrics and Intelligent Laboratory Systems 2024, 252,105199	ISSN 0169-7439	3.7	
238	<i>Synthesis of indole-functionalized isoniazid conjugates with potent antimycobacterial and antioxidant efficacy</i> Renu Gavadia, Jyoti Rasgania, Neetu Sahu, Mandira Varma-Basil, Varsha Chauhan, Sanjay Kumar, Satbir Mor, Devender Singh , Komal Jakhar	Future Medicinal Chemistry 16(17), 2024, 1731-1747	1756-8927	3.2	
237	<i>Design and Synthesis of Isatin-Tagged Isoniazid Conjugates with Cogent Antituberculosis and Radical Quenching Competence: In-vitro and In-silico Evaluations</i> Renu Gavadia, Jyoti Rasgania, Neetu Sahu, Mandira Varma-Basil, Varsha Chauhan, Sanjay Kumar, Satbir Mor, Devender Singh , Komal Jakhar	Chemistry & Biodiversity 21, 2024, e202400765	1612-1880	3.4	
236	<i>Quinoxaline-linked N-acyl hydrazone acts as a "turn-off" fluorescent sensor for the selective detection of Fe³⁺ in real water samples</i> Laxmi Narayan, Parvin Kumar, Jayant Sindhu, Ashwani Kumar, Devender Singh , Sohan Lal, Harish Kumar	Journal of Photochemistry & Photobiology, A: Chemistry 457, 2024, 115857	1873-2666	4.7	
235	<i>Synthesis of thiazolidine-2,4-dione tethered 1,2,3-triazoles as α-amylase inhibitors: In vitro approach coupled with QSAR, Molecular Docking, Molecular Dynamics and ADMET studies</i> Rahul Singh, Parvin Kumar, Jayant Sindhu, Meena Devi, Sohan Lal, Ashwani Kumar, Devender Singh , Harish Kumar	European Journal of Medicinal Chemistry 275, 2024, 116623	0009-4374	6.0	
234	<i>Synthesis, Structural Insights and Photoluminescent Studies of Orange – Red Emissive Samarium (III) Complexes with 1,1,1-trifluoro-5,5-dimethyl-2,4-hexanedione and 2,2'-bipyridine and its Distinctive Analogous</i> Sonia Redhu, Devender Singh , Anjali Hooda, Anuj Dalala, Vandana Aggarwal, Komal Jakhar, Sumit Kumar, Rajender Singh Malik, Parvin Kumar, Jayant Sindhu	Journal of Molecular Structure 1308, 2024, 138056	0022-2860	4.7	
233	<i>Optimizing white light emission in Dy(III) complexes: impact of energy transfer from mono and bidentate ligands on luminescence</i> Sofia Malik, Komal Jakhar,* Devender Singh ,* Anjali Hooda, Sonia Redhu, Swati Dalal, Vandana Aggarwal, Sumit Kumar, Rajender Singh Malik and Parvin Kumar	RSC Advances 14, 2024, 22642-22655	2046-2069	4.6	
232	<i>Design and Photophysical Characterization of Dinuclear Lanthanide Complexes Incorporating Spacer Ligands along with their Mononuclear Analogues: A Comparative Study</i> Vandana Aggarwal, Devender Singh , Sonia Redhu, Sofia Malik, Swati Dalal, Sumit Kumar, Rajender Singh Malik, Parvin Kumar, Jayant Sindhu	Optical Materials 155, 2024, 115833	0925-3467	4.2	
231	<i>Adsorption studies of imidacloprid from aqueous solution using polyacrylamide coated magnetite nanoparticles as a nanoadsorbent</i> Keerti Rani, Ramesh Kumar, Devender Singh , Harish Kumar, Parvin Kumar, Suresh Kumar	Biointerface Research in Applied Chemistry 14, 2024, 88	2069-5837	1.6	
230	<i>Exploration of gel-combustion synthesis, structural and photoluminescent characteristics of Y₂Si₂O₇:Dy³⁺ phosphor: A prospective cool white light emitter for NUV based-wLEDs</i> Pawan Kumar, Devender Singh , Isha Gupta, Harish Kumar and Ramesh Kumar	Inorganic Chemistry Communications 168, 2024, 112861	1387-7003	5.4	
229	<i>Comprehensive investigation of Y₂Si₂O₇:Eu³⁺ nanophosphors for w-LEDs: Structural, Judd-Ofelt calculation and photoluminescent characteristic with high color purity and thermal stability</i> Pawan Kumar, Devender Singh , Sonika kadyan, Harish Kumar and Ramesh Kumar	Ceramic International 47(14), 2024, pp. 19282-19303	0272-8842	5.6	
228	<i>Comprehensive Investigation of Luminescent Dysprosium (III) Complexes via Photoluminescence, Thermal and Electrochemical Techniques</i> Sonia Redhu, Devender Singh , Swati Dalal, Sofia Malik, Vandana Aggarwal, Anjali Hooda, Sumit Kumar, Rajender Singh Malik and Parvin Kumar	Polyhedron 261,2024, 117146	0277-5387	2.6	
227	<i>Exploring the Role of Neutral Ligands in Modulating the Photoluminescence of Samarium Complexes with 1,1,1,5,5,5-Hexafluoro-2,4-pentanedione</i> Sofia Malik, Komal Jakhar, Devender Singh , Swati Dalal, Anjali Hooda,	Luminescence 39, 2024, e4810	1522-7235	3	

	Kapeesha Nehra, Sumit Kumar, Rajender Singh Malik and Parvin Kumar				
226	<i>Pyranol[2,3-c]pyrazole fused spirooxindole-linked 1,2,3-triazoles as antioxidant agents: Exploring their utility in the development of antidiabetic drugs via inhibition of α-amylase and DPP4 activity</i> Sandhya Chahal, Payal Rani, Shweta, Kapil Kumar Goel, Gaurav Joshi, Rajvir Singh, Parvin Kumar, Devender Singh , Jayant Sindhu	Bioorganic Chemistry 147, 2024, 107363	ISSN: 1090-2120	4.7	
225	<i>Remediation of toluidine blue O dye from aqueous solution using surface functionalized magnetite nanoparticles</i> Arti Jangra, Ramesh Kumar, Devender Singh , Harish Kumar, Jai Kumar, Parvin Kumar, Suresh Kumar	Water Practice and Technology, 2024, 19(4), pp. 1119–1134	ISSN 1751231X	1.6	
224	<i>NUV-Excitation Dy(III) Complexes: Synthesis, Structural Study and Impact of Secondary Ligands on Optoelectronic Properties</i> , Sonia Redhu, Devender Singh , Kapeesha Nehra, Swati Dalal, Sofia Malik, Vandana Aggarwal, Sumit Kumar, Rajender Singh Malik, Parvin Kumar, Jayant Sindhu	Journal of Molecular Structure 1311, 2024, 138380	0022-2860	4.7	
223	<i>Near Ultra-Violet Excitable Tb(III)-tris-hexafluoro-2,4-pentanedione Complexes for OLEDs: Insights into the Impact of Ancillary Ligands on Photoluminescent Characteristics</i> Sonia Malik, Komal Jakhar, Devender Singh , Anjali Hooda, Kapeesha Nehra, Sumit Kumar, Rajender Singh Malik, Parvin Kumar	Journal of Molecular Structure 1311, 2024, 138334	0022-2860	4.7	
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221	<i>1,1,1-Trifluoro-5,5-dimethyl-2,4-hexanedione based ternary complexes of Eu(III): Synthesis, structural and luminescence investigations</i> Sonia Redhu, Devender Singh , Anjali Hooda, Anuj Dalal, Komal Jakhar, Sumit Kumar, Rajender Singh Malik, Parvin Kumar	Optical Materials 151, 2024, 115348	0925-3467	4.2	
220	<i>Design and Spectroscopic Study of Samarium Complexes with Tunable Photoluminescent Properties</i> Vandana Aggarwal, Devender Singh , Anjali Hooda, Kapeesha Nehra, Sonia Redhu, Sumit Kumar, Rajender Singh Malik, Parvin Kumar	Journal of Molecular Structure, 1311, 2024, 138315	0022-2860	4.7	
219	<i>Realization of green emitting pyrosilicate structured Er^{3+} activated $Y_2Si_2O_7$ phosphor: A systematic study of opto-electronic characteristics and thermal stability for solid-state lighting</i> Pawan Kumar, Devender Singh , Sitender Singh, Harish Kumar and Ramesh Kumar	RSC Advances 14, 2024, 18716-19729	ISSN: 0022-2313	4.6	
218	<i>Insights into opto-electronic investigation of highly pure reddish-orange light emissive Sm^{3+} doped $Y_2Si_2O_7$ phosphors: Tailored for NUV-excitable white light emitting diodes</i> Pawan Kumar, Devender Singh , Sonika Kadyan, Harish Kumar and Ramesh Kumar	Journal Molecular Structure 1314, 2024, 138727	0022-2860	4.7	
217	<i>Cool green emissive $Y_2Si_2O_7:Tb^{3+}$ nanophosphor: Auto combustion route, structural and photoluminescence characteristics with good thermal stability for solid state lighting</i> Pawan Kumar, Devender Singh , Sonika kadyan, Harish Kumar and Ramesh Kumar	RSC Advances 14, 2024, 16560-16573	ISSN: 0022-2313	4.6	
216	<i>Monometallic heteroleptic complexes of Dy(III) incorporating β-diketone and ancillary moieties: Photophysical and electrochemical analyses</i> Sonia Redhu, Devender Singh , Anjali Hooda, Kapeesha Nehra, Sumit Kumar, Rajender Singh Malik, Vikas Siwach, Parvin Kumar	Chemical Physics Letters 847, 2024, 141376	0009-2614	3.1	
215	<i>Orangish-red light emitting $LaSr_2AlO_5:Sm^{3+}$ nanophosphors for warm LEDs: Crystallographic, photoluminescence characteristics with high color purity and thermal stability</i> Pawan Kumar, Devender Singh and Harish Kumar	Materials Chemistry and Physics 320, 2024, 129418	ISSN: 0254-0584	4.7	
214	<i>Trivalent dysprosium activated $LaSr_2AlO_5$ nanophosphors for NUV-excited wLEDs: Insights into structural, optical, Judd-Ofelt parameters and temperature dependent photoluminescence</i> Pawan Kumar, Devender Singh and Harish Kumar	Inorganic Chemistry Communications 163, 2024, 112375	1387-7003	5.4	
213	<i>Computational and Optoelectronic Investigations of Red-Emissive Europium (III) beta-diketonate with N-donor Ligands for Display Applications</i> Sonia Redhu, Devender Singh , Kapeesha Nehra, Sumit Kumar, Rajender Singh Malik, Parvin Kumar, Jayant Sindhu	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 315, 2024, 124307	1010-6030	4.3	
212	<i>Photoluminescence Tuning of Terbium tris-1,1,1-trifluoro-5,5-dimethyl-2,4-hexanedione complexes: Synthesis, Spectroscopic, Thermal and Electrochemical Analyses</i> Sonia Redhu, Devender Singh , Anjali Hooda, Sofia Malik, Vandana Aggarwal, Swati Dalal, Sumit Kumar, Rajender Singh Malik and Parvin Kumar	Journal of Luminescence, 271, 2024, 120588	1872-7883	3.6	
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209	<i>Synthesis, Characterization and Luminescent Properties of N-donor Based Samarium-tris-β-Diketonate: Tuning Optoelectronic Characteristics for Displays Applications</i> Sonia Redhu, Devender Singh , Anjali Hooda, Sofia Malik, Vandana Aggarwal, Swati Dalal, Sumit Kumar, Rajender Singh Malik, Parvin Kumar	Journal of Molecular Structure, 1307, 2024, 138056	0022-2860	4.7	
208	<i>Enhancement in photophysical properties of octacoordinated Dy (III) complexes via energy transfer from photosensitizing ligands</i> Swati Dalal, Devender Singh , Anjali Hooda, Sonia Redhu, Sofia Malik, Vandana Aggarwal, Sumit Kumar, Rajender Singh Malik, Parvin Kumar, Jayant Sindhu	Optical Materials 150, 2024, 115159	ISSN: 0925-3467	4.2	
207	<i>Photophysical analysis and Judd–Ofelt calculation of Eu (III) complexes: Influence of various neutral ligands on luminescent properties</i> Swati Dalal, Devender Singh , Anuj Dalal, Sumit Kumar, Rajender Singh Malik, Parvin Kumar, Jayant Sindhu	Journal of Molecular Structure, 1307, 2024, 137909	0022-2860	4.7	
206	<i>Comprehensive investigation of ternary dysprosium complexes for white light emission: Synthesis, spectroscopic and colorimetric analyses</i> Vandana Aggarwal, Devender Singh , Anjali Hooda, Sofia Malik, Swati Dalal, Sonia Redhu, Sumit Kumar, Rajender Singh Malik, Parvin Kumar	Journal of Luminescence 270, 2024, 120555	1872-7883	3.6	
205	<i>Examination of the spectroscopic characteristics of bright green emitting, octa coordinated luminescent terbium (III) complexes</i> Sonia Redhu, Devender Singh , Anjali Hooda, Anuj Dalal, Komal Jakhar, Sumit Kumar, Rajender Singh Malik, Parvin Kumar, Jayant Sindhu	Polyhedron 253, 2024, 116926	0277-5387	2.6	
204	<i>Samarium (III) complexes with tunable luminescence: efficient sensitization and semiconducting properties for optoelectronic devices</i> Swati Dalal, Devender Singh , Anuj Dalal, Anjali Hooda, Sofia Malik, Sumit Kumar, Rajender Singh Malik, Parvin Kumar, Jayant Sindhu	Journal of Materials Science: Materials in Electronics 35(9), 2024, 632	ISSN: 0022-2313	2.8	
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202	<i>Rationally designed C-3 sulfenylated 2-phenyl-4H-pyrido[1,2-a]pyrimidin-4-one based fluorescent probe for recognition of Fe³⁺</i> Priyanka, Payal Rani, Kiran, Ramesh Kataria, Parvin Kumar, Devender Singh , Anil Duhan, Snigdha Singh, Jayant Sindhu	Journal of Molecular Structure, 1302, 2024, 137456	0022-2860	4.7	
201	<i>Developments in Conducting Polymers, Metal oxides, and Carbon nanotubes-based composite electrode materials for Supercapacitors: A Review</i> Aarti Tundwal, Harish Kumar, Bibin J. Binoj, Rahul Sharma, Gaman Kumar, Rajni Kumari, Ankit Dhayal, Abhiruchi Yadav, Devender Singh and Parvin Kumar	RSC advances 14, 2024, 9406-9439	ISSN: 0022-2313	4.6	
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198	<i>A green light emissive LaSr₂AlO₅:Er³⁺ nanocrystalline material for solid state lighting: crystal phase refinement and down-conversion photoluminescence with high thermal stability</i> Pawan Kumar, Devender Singh and Harish Kumar	RSC Advances 14(2), 2024, 755-770	0022-2313	4.6	
197	<i>Preparation, characterization and spectroscopic analyses of Dy(III) β-diketonates with bidentate N Donor Neutral Ligands for Displays</i> Sonia Redhu, Devender Singh *, Anjali Hooda, Anuj Dalal, Sumit Kumar, Rajender Singh Malik Vikas Siwach and Parvin Kumar	Journal of Photochemistry and Photobiology A: Chemistry 449, 2024, 115381	1010-6030	4.7	
196	<i>Conducting polymers and Carbon nanotubes in the field of Environmental Remediation: Sustainable developments</i> Aarti Tundwal, Harish Kumar, BibinJ.Binoj, Rahul Sharma, Rajni Kumari, An kita Yadav, Gaman Kumar, Ankit Dhayal, Abhiruchi Yadav, Devender Singh , Bindu Mangla, Parvin Kumar	Coordination Chemistry Reviews 500, 2024, 215533	0010-8545	23.5	
195	<i>Design and synthesis of isoniazid-based pyrazolines as potential inhibitors of Mycobacterium tuberculosis with promising radical scavenging action: In-vitro and in-silico evaluations</i> Jyoti Rasgania, Renu Gavadia, Mandira Varma-basil, Varsha Chauhan, Sanjay Kumar, Satbir Mor, Devender Singh , Komal Jakhar	Journal of Molecular Structure, 1295, 2024, 136657	0022-2860	4.7	

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192	<i>Quinoxaline-derived "turn-off" fluorescent sensor for the selective detection of Fe³⁺: Synthesis, spectroscopic analysis, BSA binding and computational studies</i> Laxmi Narayan, Kiran, Jayant Sindhu, Parvin Kumar, Ashwani Kumar, Devender Singh and Sohan Lal	Journal of Molecular Structure 2023, 1293, 136223	0022-2860	4.7	
191	<i>Synthesis of isatin-tagged thiadiazoles as anti-breast cancer leads: In-vitro and in-silico investigations</i> Jyoti Rasgania, Renu Gavadia, Surendra Nimesh, Lacy Loveleen, Satbir Mor, Devender Singh , Komal Jakhar	Journal of Molecular Structure 1294, 2023, 136464	0022-2860	4.7	
190	<i>Green-light emitting Tb(III) doped Gd₂Si₂O₇ nanocrystals: Structural and optical measurements for NUV excitable cool LEDs</i> Isha Gupta, Pawan Kumar, Sitender Singh, Shri Bhagwan Vinod Kumar and Devender Singh*	Inorganic Chemistry Communications 2023, 111341	1387-7003	5.4	
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187	<i>Photoluminescent Sm(III) diketonates with 1,10-Phenanthroline derivatives: Electrochemical and Optoelectronic Study</i> Anjali Hooda, Anuj Dalal, Kapeesha Nehra, Sitender Singh, Devender Singh* , Sumit Kumar and Rajender Singh Malik	Journal of Material Science: Material in Electronics 34(19), 2023, 1504	0022-2313	2.8	
176	<i>Structural, morphological and optical characteristics of Gd₂Si₂O₇:Dy³⁺ nanophosphors for WLEDs</i> Isha Gupta, Pawan Kumar, Sitender Singh, Shri Bhagwan Vinod Kumar and Devender Singh*	Luminescence doi.org/10.1002/bio.4566 38(10), 2023, Pp 1789-1802	0022-2313	3	
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184	<i>Synthesis, crystallographic structure, down shifting luminescence of Er(III) activated GdSr₂AlO₅ nanophosphors: An efficient green emitter for solid state lighting</i> Pawan Kumar, Devender Singh , Isha Gupta and Harish Kumar	Materials Science in Semiconductor Processing 167, 2023, 107765	1873-4081	4.6	
183	<i>Physical insights into crystal structure and optical response of green light emitting Tb³⁺ activated GdSr₂AlO₅ nanophosphors for optical displays</i> Pawan Kumar, Devender Singh* and Isha Gupta	Material Research bulletin 167, 2023, 112413	1873-4227	5.7	
182	<i>Influence of Dy³⁺ ion concentration on structural, photoluminescence and energy transfer mechanism of promising GdSr₂AlO₅ nanophosphors for white light applications</i> Pawan Kumar, Devender Singh* , Isha Gupta and H. Kumar	Ceramics International Vol. 49, Part B, Sept 2023, 29010-29024	0272-8842	5.6	
181	<i>Highly efficient near UV excitable GdSr₂AlO₅:Eu³⁺ red emitting nanophosphors: Structure refinement, photoluminescence, Judd-Ofelt analysis and thermal stability for w-LEDs</i> Pawan Kumar, Devender Singh* and Isha Gupta	Journal of Alloys and Compounds 966, 2023, 171410	ISSN: 0925-8388	6.2	
180	<i>Structural, optical and Judd-Ofelt analyses of Gd_{2-x}Eu_xSi₂O₇ nanocrystals for lighting applications</i> Isha Gupta, Devender Singh* , Sitender Singh, Pawan Kumar, Shri Bhagwan and Vinod Kumar	Chemical Physics Letters 826, 2023, 140670	ISSN: 0009-2614	3.1	
179	<i>Structural and luminescent features of warm reddish-orange light-emitting Sm(III) doped Gd₂Si₂O₇ nanophosphors for near UV-energized LEDs</i> Isha Gupta, Devender Singh* , Sitender Singh, Pawan Kumar, Shri Bhagwan and Vinod Kumar	Journal of Luminescence 263, 2023, 12	ISSN: 0022-2313	3.6	
178	<i>Crystallographic and luminescence studies of Gd₂Si₂O₇:Er³⁺ nanomaterials for NUV energized lighting applications</i> Isha Gupta, Devender Singh* , Pawan Kumar, Sitender Singh, Shri Bhagwan and Vinod Kumar	Journal of Molecular Structure 1287, 2023, 135595	ISSN: 0022-2860	4.7	
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176	<i>Samarium (III) Complexes with Fluorinated Diketones and Heteroaromatic Auxiliary Moieties; Synthesis and Spectral Analyses</i> Anjali Hooda, Devender Singh* , Anuj Dalal, Kapeesha Nehra, Sumit Kumar, Rajender Singh Malik, Brijesh Rathi and Parvin Kumar	Inorganica Chimica Acta 553, 2023, 121543	ISSN: 0020-1693	3.2	
175	<i>Materials catalyst for CO₂ capture and conversion into cyclic carbonate: Progress and Challenges</i> Payal Tyagi, Devender Singh , Neeti Malik, Sumit Kumar, Rajender Singh Malik	Materials Today 65, 2023, 133-165	ISSN: 1873-4103	22	
174	<i>N-Donor Auxiliary Ligand-based Terbium (III) β-diketonates: Preparation and Photophysical Studies</i> Anjali Hooda, Devender Singh* , Anuj Dalal, Kapeesha Nehra, Sumit Kumar, Rajender Singh Malik, Harkesh Sehrawat and Parvin Kumar	Journal of Luminescence 258, 2023, 119828	ISSN: 0022-2313	3.6	
173	<i>Crystal structure, morphological and photoluminescent studies of Tb³⁺ doped YAlO₃ perovskite for advanced display applications</i> Isha Gupta, Sitender Singh, Pawan Kumar, Shri Bhagwan, Vinod Kumar and Devender Singh*	Luminescence doi.org/10.1002/bio.4486 2023	ISSN: 1522-7243	3	
172	<i>Synthetic, structural and optical characteristic of novel color tunable reddish-orange Gd₄Al₂O₉:Sm³⁺ nanocrystalline materials for solid-state photonic appliances</i> Isha Gupta, Sitender Singh, Pawan Kumar, Shri Bhagwan, Vijeta Tanwar, Simran Nehra, Vinod Kumar, Devender Singh*	Inorganic Chemistry Communications 148, 2023, 110332	ISSN: 1387-7003	5.4	
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170	<i>Parsing structural fragments of thiazolidin-4-one based α-amylase inhibitors: A combined approach employing in vitro colorimetric screening and GA-MLR based QSAR modelling supported by molecular docking, molecular dynamics simulation and ADMET studies</i> Rahul Singh, Parvin Kumar*, Jayant Sindhu, Meena Devi, Ashwani Kuma, Sohan Lal, Devender Singh	Computers in Biology and Medicine 157, 2023, 106776	ISSN: 0010-4825	6.3	
169	<i>A study of phase evolution, crystallographic and down-conversion luminescent behaviour of monoclinic Y₄Al₂O₉:Dy³⁺ nanophosphors for white light applications</i> Pawan Kumar ^a , Devender Singh* , Isha Gupta ^a , Sitender Singh ^a , Simran Nehra ^b and Ramesh Kumar ^c	Optical Materials 138, 2023, 113677	ISSN: 0925-3467	3.8	
168	<i>Er³⁺-doped Y₄Al₂O₉ nanophosphors for advance display applications: Synthesis, crystal chemistry and down conversion photoluminescent investigation</i> Pawan Kumar ^a , Devender Singh* , Isha Gupta, Sitender Singh, Simran Nehra and Ramesh Kumar	Material Chemistry and Physics 301, 2023, 127610	ISSN: 0254-0584	4.7	
167	<i>Optical, Electrochemical and Photophysical Analyses of Heteroleptic Luminescent Ln(III) Complexes for Lighting Applications</i> Anjali Hooda, Devender Singh* , Anuj Dalal, Kapeesha Nehra, Sumit Kumar, Rajender Singh Malik, Ramesh Kumar, Parvin Kumar and Brijesh Rathi	RSC Advances 13, 2023, 9033	ISSN: 0022-2313	4.6	
166	<i>Luminescent Tb(III) Complexes with Lewis Bases for Displays: Synthesis and Spectral Investigation</i> Anjali Hooda, Devender Singh* , Kapeesha Nehra, Anuj Dalal, Sumit Kumar, Rajender Singh Malik, Brijesh Rathi and Parvin Kumar	Inorganic Chemistry Communication 151, 2023, 110583	ISSN: 1387-7003	5.4	
165	<i>Preparation, Spectral and Judd Ofelt Analysis of Luminous Octa-coordinated Europium(III) Complexes</i> Anjali Hooda, Devender Singh* , Anuj Dalal, Kapeesha Nehra, Sumit Kumar ^b , Rajender Singh Malik, Ramesh Kumar and Parvin Kumar	Journal of Photochemistry and Photobiology A: Chemistry 440, 2023, 114646	ISSN: 1010-6030	4.7	
164	<i>Gadolinium-based Sm³⁺ activated GdSr₂AlO₅ nanophosphor: Synthesis, Crystallographic and Opto-electronic analysis for warm wLEDs</i> Pawan Kumar, Devender Singh* , and Isha Gupta	RSC Advances 13, 2023, 7703	ISSN: 2046-2069	4.6	
163	<i>Photophysical Characteristic of Eu(III) 1,3-diketones with substituted 1,10-phenanthroline auxiliary moieties</i> Anjali Hooda, Devender Singh* , Kapeesha Nehra, Anuj Dalal, Sumit Kumar, Rajender Singh Malik, Ramesh Kumar and Parvin Kumar	Journal of Molecular Structure 1282, 2023, 135200	ISSN: 0022-2860	4.7	
162	<i>Combustion derived single phase Y₄Al₂O₉:Tb³⁺ nanophosphor: Crystal chemistry and optical analysis for solid state lighting applications</i> Pawan Kumar, Devender Singh* , Isha Gupta, Sitender Singh, Simran Nehra and Ramesh Kumar	RSC Advances 13, 2023, 7752	ISSN: 2046-2069	4.6	
161	<i>Realization of warm reddish-orange light emitter single phase Y₄Al₂O₉:Sm³⁺ nanophosphors for indoor lighting applications</i> Pawan Kumar ^a , Devender Singh* , Isha Gupta ^a , Sitender Singh ^a , Simran Nehra ^b and Ramesh Kumar ^c	Journal of Luminescence 257, 2023, 119703	ISSN: 0022-2313	3.6	

160	<i>Crystallographic and optical investigation of reddish-orange color tunable GdAlO₃:Sm³⁺ perovskite nanomaterials for solid state lighting applications</i> Pawan Kumar ^a , Devender Singh^{ab} , Isha Gupta ^a , Sitender Singh ^a and Vinod Kumar ^b	Chemical Physics Letters 812, 2023, 140277	ISSN: 0009-2614	3.1	
159	<i>Structural and photophysical measurements of Er³⁺ doped Gd₄Al₂O₉ nanophosphors for solid-state lighting applications</i> Isha Gupta, Devender Singh ^a , Sitender Singh, Pawan Kumar, Shri Bhagwan and Vinod Kumar	Chemical Physics Letters 814, 2023, 140350	ISSN: 0009-2614	3.1	
158	<i>Structural and luminescent behaviour of Dy(III) activated Gd₃Al₅O₁₂ nanophosphors for white-LEDs applications</i> Pawan Kumar, Sitender Singh, Isha Gupta, Kapeesha Nehra, Vinod Kumar and Devender Singh[*]	Material Chemistry and Physics 295, 2023, 127035	ISSN: 0254-0584	4.7	
157	<i>Preparation, structural and photometric properties of single-phased Gd₃Al₅O₁₂:Tb³⁺ green-emitting phosphors for solid state lighting purpose</i> Pawan Kumar, Sitender Singh, Isha Gupta, Anuj Dalal, Vinod Kumar and Devender Singh[*]	Materials Science and Engineering B 288, 2023, 116189	ISSN: 0254-0584	4.6	
156	<i>Luminous lanthanide diketonates: Review on synthesis and optoelectronic characterizations</i> Anuj Dalal, Kapeesha Nehra, Anjali Hooda, Devender Singh[*] , Parvin Kumar, Sumit Kumar, Rajender Singh Malik and Brijesh Rathi	Inorganica Chimica Acta 550, 2023, 121406	ISSN: 0020-1693	3.2	
155	<i>Synthesis of green emissive Tb(III) complexes for displays: Optical, electrochemical and photoluminescent analysis</i> Kapeesha Nehra, Anuj Dalal, Anjali Hooda, Raman Kumar Saini, Devender Singh[*] , Sumit Kumar, Rajender Singh Malik and Parvin Kumar	Luminescence 38, 2023, 56-63	ISSN: 1522-7243	3	
154	<i>Red emissive β-diketonate Ln(III) complexes for displays: Preparation, spectroscopic and optical investigations</i> Anuj Dalal, Kapeesha Nehra, Anjali Hooda, Pawan Kumar, Devender Singh[*] , Sumit Kumar, Ramesh Kumar, and Parvin Kumar	Optik International Journal for Light and Electron Optics 276, 2023, 170648	ISSN: 0030-4026	3.1	
153	<i>Reddish-orange color tunable Sm³⁺ activated Gd₃Al₅O₁₂ phosphors: Crystallographic and photophysical investigation for lighting applications</i> Pawan Kumar, Sitender Singh, Isha Gupta, Anjali Hooda, Vinod Kumar and Devender Singh[*]	Journal of Molecular Structure 1271, 2023, 134074	ISSN: 0022-2860	4.7	
152	<i>Quantum dots decorated polyaniline plastic nanocomposites as a novel amperometric sensor for formaldehyde: Experimental and theoretical</i> Harish Kumar, Neetu Kumari, Devender Singh	Talanta Open 6, 2022, 100141	2666-8319	3.7	
151	<i>Emerging green light emission of Er³⁺-activated single phased GdAlO₃ phosphors for lighting applications</i> Pawan Kumar ^a , Devender Singh^{ab} , Isha Gupta ^a , Sitender Singh ^a and Vinod Kumar ^b	Luminescence 37, 2022, 2028-2040	ISSN: 1522-7243	3	
150	<i>Heteroleptic Eu(III) Emissive Complexes: Luminescent, Optoelectronic and Theoretical Investigation</i> Anjali Hooda, Anuj Dalal, Kapeesha Nehra, Pawan Kumar, Devender Singh[*] , Rajender Singh Malik and Sumit Kumar	Journal of Luminescence 252, 2022, 119272	ISSN: 0022-2313	3.6	
149	<i>Perovskite GdAlO₃:Dy³⁺ nanophosphors: A gel-combustion synthesis, phase evaluation and down conversion luminescent characteristics for WLED's</i> Pawan Kumar ^a , Devender Singh^{ab} , Isha Gupta ^a , Sitender Singh ^a and Vinod Kumar ^b	Journal of Luminescence 252, 2022, 119409	ISSN: 0022-2313	3.6	
148	<i>Monte Carlo Based QSGFEAR: Prediction of Gibb's Free Energy of Activation at Different Temperatures Using SMILES Based Descriptors</i> Rahul Singh, Parvin Kumar, Meena Devi, Sohan Lal, Ashwani Kumar, Jayant Sindhu, Alla P. Toropova, Andrey A. Toropov, Devender Singh	New Journal of Chemistry 2022,46, 19062-19072	1369-9261	2.5	
147	<i>Phase Recognition and Spectroscopic Characteristics of Single-Phase Tb³⁺ doped Gd₄Al₂O₉ Nanophosphors for NUV energized Advanced Photonic Appliances</i> Isha Gupta ^a , Devender Singh^a , Sitender Singh ^a , Pawan Kumar ^a , Shri Bhagwan ^a and Vinod Kumar ^b	Journal of Luminescence 252, 2022, 119327	ISSN: 0022-2313	3.6	
146	<i>Crystal configuration, spectroscopic and optical characteristics of Er³⁺ doped YAlO₃ perovskites for advanced photonic appliances</i> Isha Gupta, Pawan Kumar, Sitender Singh, Shri Bhagwan, Sunil Kumar Chhikara and Devender Singh[*]	Inorganica Chimica Acta 543, 2022, 121183	ISSN: 0020-1693	3.2	
145	<i>Structural, morphological and optoelectronic aspects of YAlO₃:Dy³⁺ doped nanocrystalline materials for NUV energized WLEDs</i> Isha Gupta, Sitender Singh, Pawan Kumar, Shri Bhagwan, Vinod Kumar and Devender Singh [*]	Current Applied Physics 43, 2022, 78-89	1567-1739	3.1	
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143	<i>Cool green light emitting GdAlO₃:Tb³⁺ perovskite nanomaterials: Crystal</i>	Inorganic Chemistry	ISSN: 1387-	5.4	

	structure and spectroscopic characteristics for advance display appliances Pawan Kumar ^a , Devender Singh ^{a*} , Isha Gupta ^a , Sitender Singh ^a Vinod Kumar ^b , Harish Kumar ^c and Sunil Kumar Chhikara ^d	Communications 145, 2022, 110064	7003		
142	Synthesis, thermal and photoluminescence investigation of Tb(III) β -diketonates with 1,10-phenanthroline derivatives Kapeesha Nehra, Anuj Dalal, Anjali Hooda, Shri Bhagwan, Komal Jakhar, Devender Singh [*] , Rajender Singh Malik, Sumit Kumar and Brijesh Rathi	Journal of Luminescence 251, 2022, 119233	ISSN: 0022-2313	3.6	
141	Preparation and luminescence behaviour of perovskite $\text{LaAlO}_3\text{:Tb}^{3+}$ nanophosphors for innovative displays Pawan Kumar, Sitender Singh, Isha Gupta, Vinod Kumar and Devender Singh [*]	Optik International Journal for Light and Electron Optics 267, 2022, 169709	ISSN: 0030-4026	3.1	
140	Luminous $\text{LaAlO}_3\text{:Dy}^{3+}$ perovskite nanomaterials: Synthesis, structural and luminescent characteristics for WLEDs Pawan Kumar, Sitender Singh, Isha Gupta, Vinod Kumar and Devender Singh [*]	Luminescence 37, 2022, 1932-1941	ISSN: 1522-7243	3	
139	Mononuclear luminous β -diketonate Ln(III) complexes with heteroaromatic auxiliary ligands: Synthesis and luminescent characteristics Anjali Hooda, Anuj Dalal, Kapeesha Nehra, Pawan Kumar, Devender Singh [*] , Sumit Kumar, Rajender Singh Malik, Ramesh Kumar, and Parvin Kumar	Luminescence 37, 2022, 1921-1931	ISSN: 1522-7243	3	
138	Computational and Spectroscopic Evaluation of 1,10-Phenanthroline based Eu(III) Fluorinated β -Diketonate Complexes for Displays Kapeesha Nehra, Anuj Dalal, Anjali Hooda, Sitender Singh and Devender Singh [*]	Journal of Luminescence 251, Nov.2022, 119111	ISSN: 0022-2313	3.6	
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136	CORAL: Quantitative Structure Retention Relationship (QSRR) of flavors and fragrances compounds studied on the stationary phase methyl silicone OV-101 column in gas chromatography using correlation intensity index and consensus modelling Parvin Kumar, Ashwani Kumar, Sohan Lal, Devender Singh [*] , Shahram Lotfi, Shahin Ahmadi	Journal of Molecular Structure 1265, 2022, 133437	ISSN: 0022-2860	4.7	
135	Phase recognition, structural measurements and photoluminescence studies of reddish-orange-emissive $\text{YAlO}_3\text{:Sm}^{3+}$ perovskite nanophosphors for NUV energized WLEDs Isha Gupta, Pawan Kumar, Sitender Singh, Shri Bhagwan, Vinod Kumar, Devender Singh [*]	Journal of Molecular Structure 1257, 2022, 133567	ISSN: 0022-2860	4.7	
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133	Structural and optical characterization of trivalent samarium-activated LaAlO_3 nanocrystalline materials for solid-state lighting Pawan Kumar, Sitender Singh, Isha Gupta, Vinod Kumar and Devender Singh [*]	Journal of Molecular Structure 1265, 2022, 133362	ISSN: 0022-2860	4.7	
132	Effect of Substituted 2,2'-Bipyridine Derivatives on Luminescence Characteristics of Green Emissive Terbium Complexes: Spectroscopic and Optical Analysis Anuj Dalal, Anjali Hooda, Kapeesha Nehra, Devender Singh [*] , Sumit Kumar, Rajender Singh Malik and Parvin Kumar	Journal of Molecular Structure 1265, 2022, 133343	ISSN: 0022-2860	4.7	
131	Red Emissive Ternary Europium Complexes: Synthesis, Optical and Luminescent Characteristics Anuj Dalal, Kapeesha Nehra, Anjali Hooda, Devender Singh [*] , Sumit Kumar and Rajender Singh Malik	Luminescence 37, 2022, 1309-1320	ISSN: 1522-7243	3	
130	Fluorinated β -diketonate-based Sm(III) complexes: spectroscopic and optoelectronic characteristics Anuj Dalal, Kapeesha Nehra, Anjali Hooda, Devender Singh [*] , Jyotika Dhankhar and Sumit Kumar	Luminescence 37, 2022, 1328-1334	ISSN: 1522-7243	3	
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128	Red Luminous Ternary Europium Complexes: Optoelectronic and Photophysical Analysis Anjali Hooda, Anuj Dalal, Kapeesha Nehra, Sitender Singh, Devender Singh [*] , Sumit Kumar and Rajender Singh Malik	Journal of Luminescence 248, 2022, 118989	ISSN: 0022-2313	3.6	
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125	<i>Heteroleptic Luminous Ternary Europium Complexes: Synthesis, Electrochemical and Photophysical Investigation</i> Kapeesha Nehra, Anuj Dalal, Anjali Hooda, Devender Singh* , Sumit Kumar and Rajender Singh Malik	Chemical Physics Letters 800, 2022, 139675	ISSN: 0009-2614	3.1	
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117	<i>Structural, Spectroscopic and Optical Analysis of Heterocyclic Ligands (N, O) Based Mg(II) Complexes for Advance Photonic Applications</i> Shri Bhagwan, Isha Gupta, Vijeta Tanwar, Vandna Nishal, Raman Kumar Saini and Devender Singh*	Journal of Molecular Structure 1262, 2022, 133052	ISSN: 0022-2860	4.7	
116	<i>Preparation, optoelectronic and spectroscopic analysis of fluorinated heteroleptic samarium complexes for display applications</i> Kapeesha Nehra, Anuj Dalal, Anjali Hooda, Komal Jakhar, Devender Singh* and Sumit Kumar	Inorganica Chimica Acta 537, 2022, 120958	ISSN: 0020-1693	3.2	
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112	<i>Terbium Complexes of Asymmetric β-diketone: Preparation, Photophysical and Thermal Investigation</i> Anjali Hooda ^a , Kapeesha Nehra ^a , Anuj Dalal ^a , Sitender Singh ^a , Raman Kumar Saini ^a , Sanjay Kumar ^b and Devender Singh*	Inorganica Chimica Acta 536, 2022, 120881	ISSN: 0020-1693	3.2	
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6	<i>Synthesis and photoluminescent characteristics of yellow ZnS:Cu,Cl phosphor.</i> Gaytri Sharma, Anita Sharma, Devender Singh , Ishwar Singh, Young-Woo Rhee and Sang Do-Han	Indian Journal of Chemistry, 2005, 44A, 447-451.	0376-4710	0.491	
5	<i>Crystal growth of electroluminescent ZnS:Cu,Cl phosphor and its TiO₂ coating by sol-gel method for thick film EL device.</i> Sang Do-Han, Ishwar Singh, Devender Singh , You-He Lee, Gaytri Sharma and Chi-Hwan Han	Journal of Luminescence, 2005, 115, 97-103.	0022-2313	3.6	
4	<i>Preparation of small-sized particles of Eu²⁺-activated barium magnesium aluminate phosphors</i> Sang Do-Han, Chi-Hwan Han Ishwar Singh and Devender Singh	Indian Journal of Chemistry - Section A Inorganic, Physical, Theoretical and Analytical Chemistry, 43A, 2004, 2542-2544.	ISSN: 0376- 4710	0.491	
3	<i>Reaction of lead(II) with 2,6-bis(1-hydroxy-2-naphthylazo)pyridine as a spectrophotometric method for determination of phosphate and citrate.</i> Ishwar Singh, Ashok K. Sharma, Sanjiv K. Yadav and Devender Singh	Asian journal of Chemistry, 2003, 15 (3&4), 1699-1702.	ISSN: 0970- 7077	0.535	
2	<i>Synthesis and analytical applications of a new heterocyclic bis-azo dye: 2,6-Bis(7-hydroxyphenanthryl-8-azo)pyridine</i> Ishwar Singh, Ashok K. Sharma, Sanjiv K. Yadav and Devender Singh	Asian journal of Chemistry, 2003, 15(2), pp 1069-1074.	ISSN: 0970- 7077	0.535	
1	<i>Synthesis and analytical studies of a new bis-azo dye: 2,6-Bis(9-hydroxyphenanthryl-10-azo)pyridine</i> Ishwar Singh, Ashok K. Sharma, Sanjiv K. Yadav, Devender Singh and Sang Do-Han	Asian journal of Chemistry, 2003, 15(1), 185-190.	ISSN: 0970- 7077	0.535	

➤ **Major Instrument Handles (Training/Software):** Photoluminescent Spectrophotometer, UV-Visible Spectrophotometer, IR Spectrometer, Cyclovoltametry, Thermogravimetry, X-Ray Diffractometer etc.

➤ **Major Software Handles (Training):** Origin, Chemdraw, Avogadro, Orca, Setfos, JOES, Osram

➤ **Invited talk in Refresher Course/ conference/seminar/workshop/symposia etc.**

1. Delivered a talk on “Emerging Energy Materials: Characterization and their Applications” in Online Refresher Course (RC- 351) on “Chemistry” organized by UGC Malaviya Mission Teacher Training Centre of Himachal Pradesh University, Shimla (HP). (28. 11-2024).
2. Delivered a talk on “Display Materials: Characterization and their Applications” in STUTI programme of DST, New Delhi organized by the DCRUST Murthal (15.07.2022).
3. Delivered a talk on "Materials: Applications and their Chemistry" in Online Refresher Course on “Chemistry” organized by HRDC of Kurukshetra University, Kurukshetra (Haryana). (12-10-2020).
4. Delivered a talk on "Chemistry : Various application of Materials" in Online Refresher Course on “Chemistry” organized by HRDC of Guru Jambheshwar University of Science & Technology, Hisar (Haryana) (07-10-2020).

➤ Participation and papers presented in conference/seminar/workshop/symposia etc.

S. N	Title of the paper presented	Title of the conference/ seminar etc & organizer	Date of event	Conferences details
36	Enhancing luminescence of europium(III) β -diketonates with ancillary ligands: Investigating opto-electronic characteristics	3 rd Indian analytical congress (IAC-2022)(An International conference and exhibition), Dehradun, Uttarakhand, India	5-7 June, 2024	International
35	Sm(III) doped GdSr ₂ AlO ₅ nanophosphors: Structural and Optical Analysis for Lighting Applications	International Conference on “ <i>Designing a Sustainable Future: Advances and Opportunities in Green chemistry</i> (ICGC-2023)” at Leh Campus, Taru Thang, University of Ladakh	3-5 July, 2023	International
34	Terbium Doped Y ₄ Al ₂ O ₉ Nanophosphors: Optical and Structural Characteristics for Solid State Displays	11th International Conference on Materials for Advanced Technologies (ICMAT2023) held at Suntec, Singapore	26-30 June, 2023	International
33	Mononuclear Luminous Ln(III) complexes with bidentate ligands for lighting applications: Synthesis and photophysical investigations	2 nd Indian analytical congress (IAC-2022)(An International conference and exhibition), Dehradun, Uttarakhand, India	26-28 May, 2022	International
32	Synthesis and luminescent characteristics of fluorinated diketone based Eu ³⁺ compounds for display applications	1 st International Conference on Indian Science Congress Association-Rohtak Chapter on Science & Technology: Rural development (ICSTRD 2020)	March 4-5, 2020	International
31	Structural and photoluminescent analysis of trivalent europium doped MLaAl ₃ O ₇ (M = Ba, Ca, Mg and Sr) nanophosphors	Indian Analytical Congress-2019 (An International Analytical Conference and Exhibition)	December 12-14, 2019	International
30	Synthesis and Optical Investigation of M ₂ Si ₃ O ₈ :Eu ³⁺ (M=Ca and Sr) Nanophosphors for Display Devices	National Conference on Science & Technology for Rural development (NCSTRD 2019)	Oct, 14-15, 2019	National
29	Luminescence and structural Characteristics of Europium(III) activated SrGdAl ₃ O ₇ Nanophosphor	National Conference on Science & Technology for Sustainable development (NCSTSD 2019)	Feb, 12-13, 2019	National
28	Preparation and Optoelectronic Characterization of Zinc-Complexes for display applications	National Conference on Nano Structured Materials and Device Technologies (NCNSMDT-2018)	Dec, 21-22, 2018	National
27	Synthesis and Luminescent Characterization of Color-Tunable Mixed Ligand Based Light Emitting Zinc-Complexes	International Conference on Advances in Analytical Sciences (ICAAS-2018), Dehradun, Uttarakhand, India	15-17 March, 2018	International
26	Luminescence Characterization of Silicate Nanophosphors for Display Applications	National conference held at Gurukul Kangri Visvidhalaya, Haridwar, Uttarakhand	20-22 Nov, 2016	National
25	Optical Characterization of Trivalent Europium Doped M ₂ SiO ₄ (M=Sr, Ca, Mg) Nanophosphors for Optoelectronic Applications	International Conference IUMRS-ICEM2016 held at Suntec, Singapore	4-8 July, 2016	International
24	Synthesis and luminescent characterization of CaMgSi ₂ O ₆ :RE ³⁺ (RE ³⁺ =Eu or Tb) nanophosphors	International Conference on Materials Science & Technology held at University of Delhi, Delhi, India	1-4 march, 2016	International
23	Synthesis and Optical Characteristics of Color-Tunable Mixed Ligand Based Zinc Complexes for Organic Light Emitting Devices	NCOSC-2016, Department of Chemistry, Guru Jambheshwar University of Science and Technology, Hisar, Haryana	17-18 Feb, 2016	National
22	Enhanced optical characterization of the terbium (III)-complexes of β -diketone and ancillary ligands	Presented at International conference held at Birla Institute of Technology and Science, Pilani	16-18 Oct. 2015	International
21	Synthesis and improved optical properties of the β -diketone based Eu(III)-complexes	Presented at National conference held at Gurukul Kangri Vishvidhalaya, Haridwar	28-30 Sept 2015	National
20	Preparation and optical characterization of the blue-green nanophosphors	NSAS held at Jamia Humdard University, New Delhi	Feb, 2015	National
19	Synthesis and Spectral Characterization of Europium doped MY ₂ O ₄ phosphors	Indian Science Congress, held at University of Mumbai, Maharashtra	3-7 Jan, 2015	National
18	Synthesis and Optical Characterization of Terbium Doped M ₂ SiO ₄ Nanophosphors	Presented in the National conference (NCNRE-2014) held at Jamia Milia Islamia University, New Delhi	28-29 April, 2014	National
17	Synthesis and characterization of Zinc-schiff base complex as a blue electroluminescent material	Presented in the Indian Science Congress (ISCA), Jammu University, Jammu.	3-7 Feb, 2014	National
16	Synthesis and Optoelectronic Characterization of SrAl ₄ O ₇ : Eu ²⁺ , (Dy, Y) ³⁺ nano phosphor	Presented in the National conference on Advances in Chemical Sciences (ACS-2013), held at Department of Chemistry, Maharshi Dayanand University, Rohtak, Haryana.	1-2 Mar, 2013	National
15	Synthesis and Optoelectronic Characterization of the Green Nano Phosphor	Presented in the 31 st Annual Conference of Indian Council of Chemists (ICC), held at Department of Chemistry, Saurashtra University, Rajkot, Gujrat.	26-28 Dec., 2012	National
14	Synthesis and Characterization of the SrLa ₂ O ₄ :Eu phosphor	Presented in National Conference on “Global Challenges: New Frontiers in Chemical Sciences” (GC-NFCS-2012), held at KUK.	22-23Sep, 2012	National

13	Micro-determination of Lead(II) in Environmental and Biological samples	Presented in the National Seminar on Environmental Pollution and its Mitigation Strategies, held at JNU, New Delhi.	28-29 Mar, 2012	National
12	Enhanced Red emission from europium doped Yttrium oxide Nano phosphor	Presented in the International Conference on Global Trends in Pure & applied Chemical Sciences (ICGTCS-2012), held at Udaipur, India	3-4 Mar, 2012	International
11	Determination of Uranium Using a Heterocyclic Azo Dye as a Colorimetric Reagent	Presented in the National conference on SETMRC, held at Ujjain, M.P.	25-26 Nov 2011	National
10	Synthesis and optical characterization of nano ZnS phosphor	Presented in the Indian Science Congress, SRM University, Chennai	3-7 Jan 2011	International
9	Synthesis and Optical properties of red nano $(Y_{1-x}Eu_x)_{2-y}K_yO_{3-y}$ phosphor	Presented in the Indian Council of Chemist, Punjab University, Chandigarh	Dec 2010	National
8	Synthesis of green (ZnS:Cu,Cl) electroluminescent phosphor for thick-film EL devices	Presented in the Indian Science Congress, KERALA, Jan 2010	3-7 Jan, 2010	National
7	Synthesis and Optical Characterization of Nanocrystalline $Y_2O_3:Tb^{3+}$ Phosphor By Novel Method	Presented in the 27 th Annual conference of Indian Council of Chemist held at Haridwar	Dec, 2008	National
6	Preparation and Optical Properties of Green Eu-Doped Long Persistent Aluminate Phosphor	95 th Indian Science Congress, Visakhapatnam, Andhra Pradesh	3-7 Jan, 2008	National
5	Synthesis and optical characterization of nano $(Y_{1-x}Eu_x)_2O_3$: MX phosphor	International Workshop on Advanced Materials and Technologies for Nano and Oxide Electronics, IIT, Delhi	Feb. 2007	International
4	A new method for the preparation of nano long persistent aluminate phosphor and their optical properties	18th Annual General Meeting of the Materials Research Society of India (MRSI), NPL, New Delhi	Feb. 2007	National
3	Synthesis and luminescence characterization of Eu-doped Y_2O_3 phosphor by improved combustion method	National Symposium on Modern Trends in Chemical Sciences, KU, Kurukshetra	Oct, 2006	National
2	Synthesis and optical characterization of Eu-doped Y_2O_3 and $[(Y,Gd)_2O_3]$ phosphor by improved method	ASID 06, New Delhi	Oct, 2006	International
1	Micro-determination of copper in foodstuffs and biological samples with the help of a new bis-azo dye.	Presented in '90th Indian Science Congress' held at Bangalore	Jan 2003	National

➤ Referee of International Journals

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| 1. Advances in Materials & Processing Technologies | 15. Journal of Molecular Liquids |
| 2. Journal of Alloys and Compounds | 16. Journal of Molecular Structure |
| 3. Ceramics International | 17. Journal of the Brazilian Chemical Society |
| 4. Chemical Physics Impact | 18. Luminescence |
| 5. Chemistry and Biodiversity | 19. Macromolecular Research (MARE) |
| 6. Chemistry Select | 20. Materials Chemistry and Physics |
| 7. Combustion Science and Technology | 21. Materials Science & Engineering B |
| 8. Crystal Research and Technology | 22. Materials Today Communications |
| 9. Dalton Transactions | 23. Optical Materials |
| 10. Indian Journal of Physics | 24. Polymers for Advanced Technologies |
| 11. Inorganic and Nano-Metal Chemistry | 25. RSC Advances |
| 12. International Journal of Polymeric Materials and Polymeric Biomaterials | 26. Spectroscopy Letters |
| 13. Journal of Applied Polymer Science | 27. Journal of Physics and Chemistry of Solids |
| 14. Journal of Materials Science: Materials in Electronics (JMSE) | 28. Microchemical Journal |
| | 29. Materials Today Communications |
| | 30. Crystal Research and Technology |

➤ Details of PhD Scholars (Ph.D. Completed – 10)

VIJETA TANWAR Email: vijetatanwar30@gmail.com Topic: Synthesis and Optoelectronic Characterization of Mixed Metal Oxide Phosphors Date of Registration: 17 May 2012	SHRI BHAGWAN Email: chemshri25@gmail.com Topic: Synthesis and Optoelectronic Characterization of Heterocyclic Ligand Based Metal Complexes Date of Registration: 28 May 2013
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SUMAN SHEORAN Email: sheoransimu@gmail.com Topic: Synthesis and Characterization of Luminescent Materials Date of Registration: 20 May 2014	SONIKA KADYAN Email: sonikasangwan27@gmail.com Topic: Structural Studies of Aluminate Phosphor Materials Date of Registration: 20 May 2014
SITENDER SINGH Email: berwalsitender@gmail.com Topic: Structural and Photoluminescent Characteristics of Phosphor Materials for Display Applications Date of Registration: 24 May 2018	ANUJ DALAL Email: anujdalal3@gmail.com Topic: Synthesis and Optoelectronic Characteristics of Rare-Earth Metal Complexes for Display Applications Date of Registration: 30 July 2019
KAPEESHA NEHRA Email: kapeeshanehra@gmail.com Topic: Preparation and Luminescent Characteristics of Heterocyclic Ligand Based Rare-earth Metal Complexes for OLEDs Applications Date of Registration: 30 July 2019	ANJLI HOODA Email: anjlihooda33@gmail.com Topic: Optoelectronic Study of Luminescent Metal Complexes for Displays Date of Registration: 2 February 2021
ISHA GUPTA Email: ishikagupta443@gmail.com Topic: Synthesis and Optoelectronic Analysis of Rare-Earth Doped Phosphors Date of Registration: 2 February 2021	PAWAN KUMAR Email: bhardwajpawan3061@gmail.com Topic: Synthesis, Structural and Optical Analysis of Phosphor Materials for Lighting Applications Date of Registration: 26 November 2021

Scholars Presently Working – 09

Sonia Redhu Email: redhusonia1996@gmail.com Topic: Synthesis and Spectroscopic Investigations of Lanthanide Metal Complexes Date of Registration: 28 November 2023	Vandana Aggarwal Email: vandanaaggarwal900@gmail.com Topic: Synthesis and Photoluminescent Analysis of Rare-Earth Metal Complexes for OLEDs Applications Date of Registration: 28 November 2023
Swati Dalal Email: swatidalal567@gmail.com Topic: Rare-Earth Metal Complexes: Preparation, Luminescence Properties and Applications Date of Registration: 28 November 2023	Sofia Malik Email: sofiamalik612@gmail.com Topic: Preparation and Optoelectronic Characteristics of Heterocyclic Ligand Based Lanthanide Complexes Date of Registration: 28 November 2023
Bharti Dahiya Email: dahiyabharti22@gmail.com Topic: Synthesis and Comprehensive Study of Phosphor for Innovative Displays Date of Registration: 25 January, 2025	Reshu Kajal Email: reshukajal72@gmail.com Topic: Designing Lanthanide Doped Nanophosphor: Detailed Investigations for Lighting Applications Date of Registration: 25 January, 2025
Rinki Jangra Email: rinkijangra1230@gmail.com Topic: Rare-Earth Activated Nanophosphors: Structural and Optical Analysis for Advanced Solid State Lighting Date of Registration: 25 January, 2025	Ekta Poonia Email: ektapoonia2306@gmail.com Topic: Synthesis and Photophysical Characteristics of Rare Earth Based Phosphor for Display Applications Date of Registration:
Meghna Email: drmeghna77@gmail.com Topic: Study of Lanthanide Doped Phosphors: Preparation and Optoelectronic Investigation for LEDs Application Date of Registration:	