

CURRICULUM VITAE

- ❖ **NAME** : DR. PRITI BOORA DOON
- ❖ **DESIGNATION** : ASSOCIATE PROFESSOR
- ❖ **DATE OF BIRTH** : 24TH DECEMBER 1979
- ❖ **FIELD OF SPECIALIZATION** : ORGANIC CHEMISTRY
- ❖ **TEACHING EXPERIENCE** : 14 YEARS 9 MONTHS
- ❖ **RESEARCH EXPERIENCE** : 17 YEARS 9 MONTHS
- ❖ **FIELD OF RESEARCH INTEREST** : LUMINESCENT MATERIALS, METAL COMPLEXES AS LIGHT EMITTING MATERIALS (OLED'S) AND PHOSPHOR MATERIALS
- ❖ **OFFICE ADDRESS** : DEPARTMENT OF CHEMISTRY, MAHARSHI DAYANAND UNIVERSITY, ROHTAK-124001 (HARYANA) INDIA
- ❖ **RESIDENTIAL ADDRESS** : H. NO.: 76-P, SECTOR 14, ROHTAK-124001 (HARYANA) INDIA
- ❖ **EMAIL** : pritiboora@gmail.com, pritiboora.chem@mdurohtak.ac.in
- ❖ **EDUCATIONAL QUALIFICATIONS:**



DEGREE	YEAR OF PASSING	UNIVERSITY/INSTITUTE
Ph. D	2008	M. D. UNIVERSITY, ROHTAK, HARYANA, INDIA
NET	2003	UGC/CSIR
M. Sc.	2002	M. D. UNIVERSITY, ROHTAK, HARYANA, INDIA
B. Sc.	2000	M. D. UNIVERSITY, ROHTAK, HARYANA, INDIA

❖ **ACADEMIC SOCIETIES / ASSOCIATIONS MEMBERSHIP:**

- Life Member of Indian Science Congress Association, Kolkata
- Life Member of ISEAC

❖ **CAREER PROFILE:**

DESIGNATION	INSTITUTION	DURATION	
ASSOCIATE PROFESSOR	DEPARTMENT OF CHEMISTRY, M.D. UNIVERSITY, ROHTAK	MAY 01, 2022	TILL DATE
ASSISTANT PROFESSOR	DEPARTMENT OF CHEMISTRY, M.D. UNIVERSITY, ROHTAK	MAY 01, 2010	APRIL 30, 2022
LECTURER (GUEST)	Pt. NEKI RAM SHARMA GOVT.COLLEGE, ROHTAK	AUGUST 12, 2008	APRIL 30, 2010

❖ TRAINING PROGRAMMES AND WORKSHOPS:

1. Workshop on Nanotechnology on 25th March, 2011 at Dept. of Physics, M. D. University, Rohtak.
2. Workshop on Current Perspectives in Advance Science from Feb 8-9, 2012 at Pt. N.R.S. Govt. College, Rohtak.
3. Orientation Course from B.P.S. Mahila Vishwavidalaya from Dec 13, 2010 to Jan 11, 2011.
4. Refresher Course from ACS, Kurukshetra University, Kurukshetra from June 11 to July 1, 2014.
5. Refresher Course from Human Resource Development Centre, University of Rajasthan, Jaipur dated 04-09-2017 to 23-09-2017.
6. Two week Capacity Building Program at Faculty Development Centre, M.D. University, Rohtak dated: 11-03-2019 to 24-03-2019.
7. AICTE Training and Learning (ATAL) Academy, Online Elementary FDP on Life Skills for Blissful Life from 07-06-2021 to 11-06-2021 at Centre for Life Skills and Soft Skills (CLAS), Swaraj Sadan, M.D. University Rohtak.
8. Online Short Term Course on "Value Based Education" from 04 August 2021 to 10 August 2021 organized by UGC Human Resource Development Centre, Aligarh Muslim University, Aligarh.
9. The GIAN Online Course on "Fuel Cells: Fundamental Concepts, Materials Chemistry and Applications from 17th to 21st January 2022 Organized by the Department of Chemistry – M.A.N.I.T (Bhopal, India) under the GIAN Initiative of Ministry of Education (Government of India).
10. Workshop organized on September 11-16, 2023 on the topic "Employability Enhancement Skills" by Mahindra Pride (Nandi Foundation).
11. Curriculum workshop on October 27-28, 2023 on the topic "Subject Specific Benchmarking of Learning Outcomes".

❖ RESEARCH GUIDANCE:

- Awarded Ph. D. : **6 Scholars**
- Scholars Presently Working : **5 Scholars**

❖ ASSIGNMENT WITH IN THE M.D. UNIVERSITY, ROHTAK:

1. Departmental Coordinator of Career Counseling and Placement Cell.
2. Member of Academic Council, Faculty of Physical Sciences, U.G and P.G. Board of Studies.
3. Worked as Secretary in the National Conference on Recent Advances in Chemical Sciences (NCRACS-2018) organized by Department of Chemistry, Maharshi Dayanand University, Rohtak (March 7, 2018).
4. Worked as Organizing Member for the 1st Chemistry Alumni Meet (March 29, 2018).
5. Worked as Joint Secretary in the 1st National Conference on "Science & Technology for Sustainable

Development” organized by Department of Chemistry, Maharshi Dayanand University, Rohtak (Feb 12-13, 2019).

6. Worked as Joint Secretary in the 2nd National Conference on “Science & Technology for Rural Development” organized by Department of Chemistry, Maharshi Dayanand University, Rohtak (October 14-15, 2019).
7. Worked as Joint Secretary in the International Conference on Science & Technology: Rural Development organized by Department of Chemistry, Maharshi Dayanand University, Rohtak (March 4-5, 2020).
8. Additional Coordinator Criterion-V (Student Support and Progression) in NAAC.
9. Member of UMC Committee.
10. Worked as Secretary in the National Conference on Recent Trends in Materials and Life Sciences organized by Department of Chemistry, Maharshi Dayanand University, Rohtak (September 29, 2023).

❖ **ABROAD VISITS:**

- Visited Hynes Convention Center Boston Massachusetts U.S.A.
- Visited London, U.K.
- Visited San Francisco, U.S.A.

❖ **INVITED LECTURES DELIVERED OUTSIDE INSTITUTE:**

1. Delivered Extension Lectures at Pt. N.R.S. Govt. College Rohtak on UV Spectroscopy.
2. Delivered a Talk as Resource Person at Sri Venkateswara University, Tirupati, India, October 19, 2023 on Chemistry for Well-being.
3. Delivered a Talk as Resource Person at Government College for Women A, Guntur, Andhra Pradesh, India, December 08, 2023 on Gender Sensitization.

❖ **AWARDS AND DISTINCTIONS:**

1. Best Paper Award in National Conference at Panipat, March 26, 2016 organized under aegis of ISCA Kurukshetra Chapter sponsored by DST, New Delhi, DHE Haryana organized by Department of Chemistry Arya P.G. College, Panipat, Haryana.
2. Recipient of “Bharat Gaurav Award”, at India International centre, New Delhi, Dec 21, 2016 for outstanding services, achievements and contribution in the field of Chemistry.
3. Best Paper Award in National Conference at Hisar, Feb 22-23, 2017 organized by Department of Chemistry, G.J. University of Science and Technology, Hisar, India.
4. Best Paper Award in National Conference at Panipat, April 1, 2017 organized under aegis of ISCA Kurukshetra Chapter organized by Department of Chemistry, Arya P.G. College, Panipat, Haryana.

5. Best Paper Award in International Conference at Delhi, May 19, 2018 organized by "Krishi Sanskriti" in Jawaharlal Nehru University, New Delhi.

❖ **LIST OF PUBLICATIONS:**

SR. NO.	TITLE WITH NAME OF AUTHOR(S) AS APPEARING IN THE PUBLICATIONS	JOURNAL NAME, VOL, YEAR, PAGES	IMPACT FACTOR	ISSN /ISBN NO.
01.	Amperometric trace determination of As(III), As(V) and Pb(II) with thioglycolic acid. S.P. Khatkar, P.Boora .	Asian J. Chem. 18 (2006) 727–729	0.27	0970-7077
02.	New Amperometric Method for trace determination of Ga(III), In(III), Tl(I) and Tl(III) with thioglycolic acid. S.P. Khatkar, Vinod Bala, Priti boora .	Indian Society for Electroanalytical Chemistry (ISEAC), DM-ELANTE-2008, Page No. 149-152.	978-81-901950-1-0
03.	New Amperometric Method for trace Determination of Sb(III) and Te(IV) with thioglycolic acid. S.P. Khatkar, P.Boora .	Indian Society for Electroanalytical Chemistry (ISEAC), 2011
04.	Amperometric Trace Determination of Se(IV) and Se(VI) using Thioglycolic Acid. Priti Boora , Rajni Arora, V.B Taxak, Dayawati and S.P. Khatkar	Research Journal of Pharmace., Biol. and Chemical Sciences, 14(2013)1661	0.35	0975-8585
05.	Luminescent properties of europium complex by replacement of water molecules by 1,10- phenanthroline, R. Kumar, R. Arora, P.Boora , V.B. Taxak, S.P. Khatkar, Asian J. Chem. 26 (2014) 583–586.	Asian J. Chem. 26 (2014) 583–586.	0.27	0970-7077

06.	Structural and luminescent properties of Eu ³⁺ -doped GdSrAl ₃ O ₇ nanophosphor. S. Singh, S.P. Khatkar, P. Boora , V.B. Taxak	J. Mater. Sci. 49 (2014) 4773–4779.	4.682	0022-2461
07.	Enhanced optoelectronics properties of europium(III) complexes with β -diketone and nitrogen heterocyclic ligands, M. Bala, S. Kumar, P. Boora , V.B. Taxak, A. Khatkar, S.P. Khatkar	J. Mater. Sci. Mater. Electron. 25 (2014) 2850–2856	2.779	0957-4522
08.	Synthesis, photoluminescent features and intramolecular energy transfer mechanism of europium(III) complexes with fluorinate β -diketone ligand an auxiliary ligands. M. Bala, S. Kumar, V.B. Taxak, P. Boora , S.P. Khatkar	J. Fluor. Chem. 178 (2015) 6–13	2.226	0022-1139
09.	Investigations of luminescent behavior and intramolecular energy transfer mechanism of europium(III) complexes with fluorinated β -ketoesterligand, R. Devi, M. Bala, S.P. Khatkar, V.B. Taxak, P. Boora	J. Fluor. Chem. 181 (2016) 36–44.	2.226	0022-1139
10.	Synthesis, photoluminescence features with intramolecular energy transfer and Judd–Ofelt analysis of highly efficient europium(III) complexes. R. Devi, M. Dalal, M. Bala, S.P. Khatkar, V.B. Taxak, P. Boora J. Mater. Sci. Mater. Electron. 27 (2016) 12506–12516	J. Mater. Sci. Mater. Electron. 27 (2016) 12506–12516	2.779	0957-4522
11.	Optical Features of Efficient Europium(III) Complexes with β -Diketonato and Auxiliary Ligands and Mechanistic Investigation of Energy Transfer Process, M. Bala, S. Kumar, V.B. Taxak, P. Boora , S.P. Khatkar	J. Fluoresc. 26 (2016) 1813–1823.	2.525	1573-4994
12.	Terbium(III) complexes sensitized with β -diketone and ancillary ligands: Synthesis, elucidation of photoluminescence properties and mechanism. M. Bala, S. Kumar, V.B. Taxak, P. Boora , S.P. Khatkar	J. Mater. Sci. Mater. Electron. 27 (2016) 9306–9313	2.779	0957-4522

13.	Synthesis, NMR, photoluminescence studies and intramolecular energy transfer process of europium(III) complexes. M. Bala, S. Kumar, R. Devi, V.B. Taxak, P. Boora , S.P. Khatkar	J. Fluor. Chem. 188 (2016) 177–184.	2.226	0022-1139
14.	Synthesis, photoluminescence and biological properties of terbium(III) complexes with hydroxyketone and nitrogen containing heterocyclic ligands. Poonam, R. Kumar, P. Boora , A. Khatkar, S.P. Khatkar, V.B. Taxak.	Spectrochim. Acta - Part A Mol. Biomol. Spectrosc. 152 (2016) 304–310.	4.831	1873-3557
15.	Relative Study of Luminescent Properties with Judd- Ofelt Characterization in Trivalent Europium Complexes Comprising ethyl-(4-fluorobenzoyl) Acetate, R. Devi, S. Chahar, S.P. Khatkar, V.B. Taxak, P. Boora	J. Fluoresc. 27 (2017) 1349–1358	2.525	1573-4994
16.	Synthesis and photoluminescence properties of europium(III) complexes sensitized with β -diketonato and N, N-donors ancillary ligands. M. Bala, S. Kumar, R.Devi, V.B. Taxak, P. Boora , S.P. Khatkar	Spectrochim. Acta - Part A Mol. Biomol. Spectrosc. 196 (2018) 67–75	4.831	1873-3557
17.	Synthesis, Photoluminescence Behavior of Green Light Emitting Tb(III) Complexes and Mechanistic Investigation of Energy Transfer Process. M. Bala, S. Kumar, R. Devi, A. Khatkar, V.B. Taxak, P. Boora , S.P. Khatkar,	J. Fluoresc. 28 (2018) 775–784	2.525	1573-4994
18.	Optical analysis of a novel color tunable Ba ₂ Y(1-x)Eu AlO ₅ nanophosphor in Judd-Ofelt framework for solid state lighting. S. Chahar, M. Dalal, R. Devi, A. Khatkar, P. Boora , V.B. Taxak, S.P. Khatkar.	J. Lumin. 199 (2018) 442–449.	4.171	1872-7883
19.	Structural and photoluminescent analysis in Judd-Ofelt framework of color tunable SrGd ₂ (1-x)Eu _{2x} Al ₂ O ₇ nanophosphor for white light emitting materials, S. Chahar, R. Devi, M. Dalal, P. Boora , V.B. Taxak, S.P. Khatkar	J. Lumin. 194 (2018) 271–278	4.171	1872-7883

20.	Judd-Ofelt characterization and energy transfer mechanism of highly luminescent europium(III) complexes with 1-(5-chloro-2-hydroxyphenyl)-1,3- butanedione, R. Devi, Priyanka, S. Chahar, S.P. Khatkar, V.B. Taxak, P. Boora	Inorganica Chim.Acta. 471 (2018) 364–371.	3.118	1873-3255
21.	Color tunable nanocrystalline SrGd ₂ Al ₂ O ₇ :Tb ³⁺ phosphor for solid state lighting, S. Chahar, R. Devi, M.Dalal, M. Bala, J. Dalal, P. Boora , V.B. Taxak, R. Lather, S.P. Khatkar	Ceram. Int. 45 (2019) 606–613.	5.532	1873-3956
22.	Synthesis and photoluminescent performance of novel europium (III) carboxylates with heterocyclic ancillary ligands. Priyanka Dhankhar, Rekha Devi, Sushma Devi, Sangeeta Chahar, Mandeep Dalal, V. B. Taxak, S. P. Khatkar and Priti Boora	Rare Metals, May, 2019	6.318	1001-0521
23.	Synthesis, NMR and optical features of intense green color terbium (III) complexes. Manju Bala, Satish Kumar, Sangeeta Chahar, V.B. Taxak, Priti Boora , S.P. Khatkar	Optik, Volume 202, (2020), 163636	2.84	1618-1336
24.	Fabrication of single-phase BaLaAlO ₄ :Dy ³⁺ nanophosphors by combustion synthesis. Priyanka Sehrawat, Avni Khatkar, Priti Boora , Mukesh Kumar, Sonika Singh, R. K. Malik, S. P. Khatkar and V. B. Taxak	Materials and Manufacturing Processes, 1259-1267, (2020)	4.616	1042-6914
25.	A novel strategy for high color purity virescent Er ³⁺ -doped SrLaAlO ₄ nanocrystals for solid-state lighting applications. Priyanka Sehrawat, Avni Khatkar, Priti Boora , Anju Hooda, Mukesh Kumar, R.K. Malik, S.P.Khatkar and V. B. Taxak	Journal of Materials Science: Materials in Electronics, 31,(2020), 6072–60831	2.779	0957-4522
26.	Photoluminescent report on red light emitting europium(III) complexes with heterocyclic acid. Priyanka Dhankhar, Manisha Bedi, Jyoti Khanagwal, Vinod B. Taxak, Satyender P. Khatkar and Priti Boora Doon	Spectroscopy Letters, 53, 256-269, (2020)	1.340	0038-7010

27.	Facile combustion synthesis of Sm ³⁺ activated orange-red light emanating Sr ₆ Y ₂ Al ₄ O ₁₅ nanophosphor for photonic applications. Anju Hooda, Avni Khatkar, Priti Boora , Sushma Devi, Priyanka Sehrawat, Priya Phogat, S.P. Khatkar, V.B. Taxak	Journal of Luminescence, 224,117277, (2020)	4.171	1872-7883
28.	Emanating cool white light emission from novel down-converted SrLaAlO ₄ :Dy ³⁺ nanophosphors for advanced optoelectronic applications. Priyanka Sehrawat, Avni Khatkar, Priti Boora , MukeshKumar, R.K. Malik, S.P. Khatkar, V.B. Taxak	Ceramics International, 46, 16274-16284, (2020)	5.532	1873-3956
29.	Structural and optical investigation of Tb ³⁺ -doped Ba ₃ Y ₄ O ₉ nanocrystals for solid state lighting applications. Sushma Devi, Avni Khatkar, Anju Hooda, V.B. Taxak, Priti Boora , Priyanka Dhankhar, S.P. Khatkar	Journal of Solid State Chemistry, 288, (2020), 121333	3.656	0022-4596
30.	Synthesis and photoluminescence analysis of europium(III) complexes with pyrazole acid and nitrogencontaining auxiliary ligands. Jyoti Khanagwal, S. P. Khatkar, Priyanka Dhankhar, Manju Bala, Rajesh Kumar, Priti Boora and V. B. Taxak	Spectroscopy Letters,53,(2020),625-647	1.340	0038-7010
31.	Tailoring the tunable luminescence from novel Sm ³⁺ doped SLAO nanomaterials for NUV-excited WLEDs. Priyanka Sehrawat, Avni Khatkar, Priti Boora , JyotiKhanagwal, Mukesh Kumar, R.K. Malik, S.P. Khatkar, V.B. Taxak	Chemical Physics Letters, 75516, (2020)	2.719	0009-2614
32.	Combustion derived colortunable Sm ³⁺ activated BaLaAlO ₄ nanocrystals for various innovative solid stateilluminants. Priyanka Sehrawat, Avni Khatkar, Priti Boora , Mukesh Kumar, R.K. Malik, S.P. Khatkar, V.B. Taxak	Chemical Physics Letters, 758, 137937(2020)	2.719	0009-2614
33.	Crystal structure engineering and optical analysis of novel greenish Sr ₉ Al ₆ O ₁₈ :Er ³⁺ nanomaterials for NUV excitable cool-white LED applications. Priyanka Sehrawat,Dayawati, Priti Boora , Mukesh Kumar, R.K. Malik, S.P. Khatkar, V. B. Taxak	Chemical Physics Letters, 759, 138044,(2020)	2.719	0009-2614

34.	Structural, spectroscopic and optical analysis of green-glowing BaLaAlO ₄ :Er ³⁺ nanomaterials for photonic applications. Priyanka Sehrawat, Avni Khatkar, Priti Boora , Sonika Singh, Mukesh Kumar, R.K. Malik, S.P. Khatkar, V.B. Taxak	Chemical Physics Letters, 760, 138004,(2020)	2.719	0009-2614
35.	Multicolor luminescence evolving from single-phase Eu ³⁺ /Tb ³⁺ co-doped SrLaAlO ₄ nanomaterials for advanced photonic appliances. Priyanka Sehrawat, R.K.Malik, Priti Boora , Monika Punia, Monika Sheoran, Pooja Chhillar, S.P. Khatkar, V.B. Taxak	Chemical Physics Letters, 763, 138243,(2021)	2.719	0009-2614
36.	Structural, optical and morphological features of combustion derived Ba ₃ Y ₄ O ₉ :Dy ³⁺ nanocrystalline phosphor with white light emission Anju Hooda, Avni Khatkar, Priti Boora , Sonika Singh, Sushma Devi, S.P. Khatkar, V.B. Taxak	Optik,228, 166176,(2021)	2.84	1618-1336
37.	Achieving orange red emission with high color purity from novel perovskite based Sr ₉ Al ₆ O ₁₈ :Sm ³⁺ nano-cubes for advanced optoelectronic applications. Priyanka Sehrawat, Dayawati, Priti Boora , R.K. Malik, S.P. Khatkar, V.B. Taxak	Ceramics International, 47, 5432 – 5445, (2021)	5.532	1873-3956
38.	Synthesis of cool white light emitting novel dysprosium (Dy ³⁺) complexes with tetradentate β-ketoamide and heterocyclic auxiliary ligands. Monika Punia, Satyender Pal Khatkar, Vinod Bala Taxak, Priyanka Dhankhar, Priti Boora Doon	Luminescence, 36, 1209 – 1219,(2021)	2.613	1522-7235
39.	New Insights into Optoelectronic Features of Eu(III) Complexes with Heterocyclic Ligand for Advanced Optical Applications. M. Bedi, P. Chhillar, P. Dhankhar, J. Khanagwal, V.B. Taxak, S.P. Khatkar, P.B. Doon	Journal of Fluorescence. 32, (2022), 1073–1087	2.525	1053-0509
40.	Structural and photometric investigations of green emanating Er ³⁺ activated SrGd ₂ Al ₂ O ₇ nanophosphors for solid state illumination applications. P. Chhillar, A. Hooda, V.B. Taxak, S.P. Khatkar, P. Boora Doon	Materials Chemistry and Physics. 277, (2022), 125542	4.778	0254-0584

41.	Crystal chemistry and photoluminescent aspects of down-converted Tb ³⁺ activated SrGdAlO ₄ nanophosphors for multifunctional applications. P. Chhillar, A. Hooda, V.B. Taxak, S.P. Khatkar, S. Devi, P.B. Doon	Journal of Solid State Chemistry. 310, (2022), 123030	3.656	0022-4596
42.	Synthesis and optoelectronic features of cool white light-emitting Ba ₃ GdP ₃ O ₁₂ : Dy ³⁺ nanophosphors for multifarious application prospects. P. Chhillar, M. Bedi, A. Hooda, M. Punia, V.B. Taxak, S.P. Khatkar, P.B. Doon	Journal of Materials Science: Materials in Electronics. (2022), 33, 26343-26356	2.779	0957-4522
43.	Photoluminescent performance of bright orange light emanating Sm(III) complexes with β-ketoester functionalized ligand for competent photophysical appliances. M. Punia, P. Chhillar, M. Bedi, N. Dua, S.P. Khatkar, V.B. Taxak, P. Boora Doon	Journal of Photochemistry and Photobiology A: Chemistry, 433, (2022), 114172.	5.141	1010-6030
44.	Photophysical investigations of red light emanating Eu(III) complexes with dioxoester functionalized ligand for optoelectronic applications. M. Bedi, M. Punia, R. Devi, V.B. Taxak, S.P. Khatkar, P. Boora Doon	Journal of Photochemistry and Photobiology A: Chemistry, 431, (2022), 114003	5.141	1010-6030
45.	Highly efficient, orange light emanating Sm(III) complexes with furan functionalized ligand for high quality illumination in display devices. M. Bedi, M. Punia, N. Dua, P. Chhillar, V.B. Taxak, S.P. Khatkar, P. Boora Doon	Opt. Mater. (Amst). 132 (2022) 112765	3.754	0925-3467
46.	Investigations into spectroscopic and optoelectronic behaviour of furoic acid-based Eu(III) complexes for advanced photonic applications. M. Bedi, M. Punia, V.B. Taxak, S.P. Khatkar, P.B. Doon	Luminescence. 37 (2022) 1098–1108	2.613	1522-7243
47.	Structural Insights and Photophysical Screening of Sm (III) Complexes with Heterocyclic Ligand for Optical Applications. M. Bedi, P. Dhankhar, V.B. Taxak, S.P. Khatkar, P.B. Doon	J. Fluoresc. (2023)	2.525	1053-0509

48.	Investigation into photoluminescence possessions of cool white light emanating novel Dy ³⁺ complexes with β -ketoester antenna for advanced photonic devices, M. Punia, M. Bedi, N. Dua, P. Chhillar, V.B. Taxak, S.P. Khatkar, P.B. Doon	J. Photochem. Photobiol. A Chem. 435 (2023) 114301.	5.141	1010-6030
49.	High photometric and spectroscopic features of emerald light emitter terbium (III) β -Ketoester functionalised complexes for modern lighting devices. M. Punia, P. Dhankhar, N. Dua, V.B. Taxak, S.P. Khatkar, P. Boora Doon	Inorganica Chim.Acta. 544 (2023) 121225	3.118	1873-3255
50.	Spectroscopic features of Sm ³⁺ complexes based on β -ketoester functionalized ligand for advanced optoelectronic application. M. Punia, P. Boora Doon	Opt. Mater. (Amst). (2023)	3.754	0925-3467
51.	Designing and Judd-Ofelt evaluation of versatile luminescent Eu (III) complexes sensitized with β -diketone ligand for multifarious applications. N. Dua, M. Punia, P. Chhillar, M. Bedi, S. P. Khatkar, V.B. Taxak, P.B. Doon	Luminescence 38 (2023) 783-795	2.9	1522-7243
52.	Facile synthesis and photophysical properties of combustion derived Dy ³⁺ doped Ca ₉ La(PO ₄) ₇ nanophosphors for advanced solid-state lighting applications. P. Chhillar, P.B. Doon	Inorg. Chem. Commun 159(2024) 111844	4.4	1879-0259
53.	Achieving Enhanced Cool White Light from Combustion Derived Dy ³⁺ Activated Ca ₉ Y(PO ₄) ₇ Nanophosphors for Commercial Lighting Applications. P. Chhillar, P.B. Doon	Journal of Electronic Materials 53 (2024) 2319-2332	2.2	0361-5235
54.	Structural and Photometric Study of cool White Light Emitting Dy(III) Complexes Sensitized with β -diketone for Lighting Applications. N. Dua, M. Punia, P.B. Doon	Journal of Fluorescence (2024)	2.6	1573-4994

55.	Optimized solution combustion synthesis of NUV excitable Tb ³⁺ activated Ca ₉ Gd(PO ₄) ₇ nanophosphor: A downshifting bright green emitter for advanced solid state lighting prospects. P. Chhillar, P.B. Doon	Materials Science and Engineering: B 311 (2025) 117849	3.9	1873-4944
56.	Structural and green emissive characteristics of NUV energized Tb ³⁺ activated Ca ₉ La(PO ₄) ₇ nanophosphors: A desirable illuminating material for multifarious applications. P. Chhillar, P.B. Doon	Inorg. Chem. Commun 171 (2025) 113652	4.4	1879-0259
57.	Structural and photophysical investigations of thermally stable Dy (III) ion complexes incorporated with β-ketocarboxylate and ancillary moieties. R. Gaur, P.B. Doon	Journal of Luminescence 278 (2025) 120995	3.3	1872-7883

❖ **PAPER PRESENTED IN CONFERENCE/ SEMINAR/ WORKSHOP ETC:**

SR. NO.	TITLE OF THE PAPER PRESENTED	PRESENTED BY	TITLE OF THE CONFERENCE/ SEMINAR ETC & ORGANIZER	DATE OF THE EVENT	CONFERENCE DETAILS	ORGANIZED BY
01.	Amperometric Trace Determination of Se(IV) and Se(VI) using Thioglycolic Acid	Priti Boora Doon	Innovations in Indian Science, Engineering & Technology	November 24-26, 2006	National	NCISET secretariat, IPR Management Group, National Physical Laboratory, Delhi
02.	New Amperometric Method for The Trace Determination of Sb(III) and Te(IV) with Thioglycolic Acid	Priti Boora Doon	4 th ISEAC International Discussion Meet on Electrochemistry and its Applications	February 07-10, 2011	International	4 th ISEAC held at mascot hotel, Thiruvananthapuram

03.	Combustion Synthesis and Luminescent properties of SrLa ₂ O ₄ :Tb ³⁺ Nanoparticles	Priti Boora Doon	Recent Advances in Chemical Sciences	February 24-26, 2013	International	Department of Chemistry, Arya P.G. College, Panipat, Haryana, India
04.	Photoluminescence behaviour of Dysprosium(III) complex with ancillary ligand.	Priti Boora Doon	Emerging Trends in Chemistry	March 12-13, 2014	National	AIJHM college, Rohtak, Haryana
05.	Preparation and characterization of photoluminescent Tb(HMBP) ₃ .biq	Priti Boora Doon	Photonics and Materials Science	March 20-21, 2014	National	Department of Applied Physics, GJ University of Science and Technology, Hisar, India.
06.	Synthesis, Antimicrobial and Antioxidant properties of Tb(HDAP) ₃ .neo	Priti Boora Doon	Science and Technology for Human Development	March 20-21, 2015	National	ISCA Haridwar chapter and Department of ancient Indian History, cultural and Archaeology Gurukul Kangri University, Haridwar
07.	Characterization and enhanced photoluminescent properties of europium(III) complex with β-ketoester ligand	Priti Boora Doon	Nascent developments in Chemical Sciences: Opportunities for academia-industry collaboration	October 16-18, 2015	International	Department of Chemistry Birla Institute of Technology and Science, Pilani, Rajasthan (INDIA)

08.	Investigation of Structural and Photoluminescence behavior of europium(III) complex with chromophoric ligand.	Priti Boora Doon	Organic Synthesis and Catalysis (NCOSC)	February 17-18, 2016	National	Department of Chemistry, G.J. University of Science and Technology, Hisar, India.
09.	Study of structural and photoluminescence behaviour of europium(III) complex with chromophoric β -ketoester ligand	Priti Boora Doon	Chemical Sciences: Emerging Scenario and Global Challenges	March 26, 2016	National	Department of Chemistry, Arya P.G. College, Panipat, Haryana, India
10.	Investigation of luminescent properties of europium(III) complex with β -ketoester ligand and ancillary ligand	Priti Boora Doon	Advances in multidisciplinary aspects of Science and Engineering	November 23, 2016	National	Central Instrumentation Laboratory (CIL), DCRUST, Murthal, Sonapat, Haryana
11.	Enhanced luminescence of europium(III) complex with β -ketoester ligand and 2,2'-bipyridine for luminescent materials	Priti Boora Doon	Advanced Physical Methods in Chemical Sciences	February 22-23, 2017	National	Department of Chemistry, G.J. University of Science and Technology, Hisar, India.
12.	Effect of substituent position on the luminescent properties of lanthanide complex with chromophoric ligand	Priti Boora Doon	Chemical and Environmental Sciences: Engineering dimensions and challenges ahead	April 01, 2017	National	Department of Chemistry, Arya P.G. College, Panipat, Haryana, India

13.	Photoluminescence study of organic metal complex containing hydroxyquinoline carboxylic acid.	Priti Boora Doon	Symbiotic Development of Mathematical, Physical, Chemical & Computational Sciences	October 28-30, 2017	International	Department of Mathematics G.J. University of Science and Technology, Hisar, India.
14.	Synthesis and antimicrobial properties of $\text{Eu}(\text{HQCA})_3 \cdot \text{H}_2\text{O}$	Priti Boora Doon	Microbes for Health and Wealth	November 14, 2017	International	Department of Microbiology, M.D. University, Rohtak
15.	Photoluminescence study of organic metal complex containing hydroxyquinoline carboxylic acid	Priti Boora Doon	Nano and Functional Materials, Interface between Science and Engineering	November 16-18, 2017	International	Department of Chemistry, Birla Institute of Technology and Science, Pilani Campus and Material Research Society of India (MRSI), Rajasthan Chapter
16.	Investigation of structural and luminescence features of europium(III) complex with organic ligand	Priti Boora Doon	Recent advances in Chemical Sciences	March 07, 2018	National	Department of Chemistry, M.D. University, Rohtak, Haryana
17.	Synthesis and characterization of luminescent Europium (III) Complex for fabrication of photoluminescent devices.	Priti Boora Doon	Recent Trends in Applied Physical, Chemical, Mathematics, Statistics and Energy Technology for	May 19, 2018	International	Convention Centre Jawaharlal Nehru University, New Delhi.

			Sustainable Development.			
18.	Investigations of luminescent properties and energy transfer mechanism of europium(III) complex.	Priti Boora Doon	1 st National Conference on "Science & Technology for Sustainable Development".	February 12-13, 2019.	National	Department of Chemistry, Maharshi Dayanand University, Rohtak, Haryana, India
19.	Investigation of Photoluminescent properties of luminescent Europium (III) Complex Eu(IPA) ₃ .dmpH	Priti Boora Doon	TechConnect World Innovation Conference & Expo	June 17-19, 2019.	International	Hynes Convention Center Boston, Massachusetts, U.S.A.
20.	Synthesis, Structure elucidation and Photoluminescent features of Europium (III) Complex for optoelectronic application	Priti Boora Doon	2 nd National Conference on "Science & Technology for Rural Development".	October 14-15, 2019.	National	Department of Chemistry, Maharshi Dayanand University, Rohtak, Haryana, India
21.	Synthesis, Structural and Photoluminescent features of ternary Terbium (III) Complex with tetradentate ligand and Bathophenanthroline	Priti Boora Doon	Innovations in Science, Engineering & Technology	November 09-10, 2019	International	Department of Chemistry, Arya P.G. College, Panipat, Haryana, India

22.	Science and Technology: Rural Development	Priti Boora Doon	Science Communicators Meet, 107 th Indian Science Congress.	January 03-07, 2020	National	University of Agricultural Sciences, GKVK, Bengaluru, India
23.	Structural and Photophysical features of red light emitting europium (III) complex	Priti Boora Doon	Science & Technology: Rural Development	March04-05, 2020	International	Department of Chemistry, Maharshi Dayanand University, Rohtak, Haryana, India
24.	Synthesis and Photoluminescent Properties of Erbium(III) Complex with CAA and Neocuproine (co-ligand).	Priti Boora Doon	Technological Transformation and Preparedness in the Post COVID World	March22-23, 2021	International	Deenbandhu Chhotu Ram University of Science & Technology, Murthal, Sonipat, Haryana, India
25.	Synthesis and Photoluminescent Properties of Dysprosium(III) Complex with CAA and Neocuproine(co-ligand).	Priti Boora Doon	International Conference on Optoelectronics and Advanced Materials (ICOAM-2021)	March 26-27, 2021	International	Department of Physics, Sri Venkateshwara University, Tirupati, A.P., India
26.	Chaired Session of Advanced Developments in Chemistry and Allied Sciences- 2021 (ADCAS-21)	Priti Boora Doon	Advanced Developments in Chemistry and Allied Sciences-2021 (ADCAS-21)	December 16-17, 2021	International	Department of Chemistry, Deenbandhu Chhotu Ram University of Science & Technology, Murthal, Sonipat, Haryana, India

27.	Synthesis and Luminescent Properties of Dysprosium (III) Complex with tetradentate ligand (EDAA).	Priti Boora Doon	Advanced Developments in Chemistry and Allied Sciences-2021 (ADCAS-21)	December 16-17, 2021	International	Department of Chemistry, Deenbandhu Chhotu Ram University of Science & Technology, Murthal, Sonapat, Haryana, India
28.	Photoluminescent features of Samarium (III) Complex with tetrapodal main ligand and neocuproine as auxiliary Ligand	Priti Boora Doon	Innovations in Science, Engineering & Technology	February 19, 2022	National	Department of Chemistry, Arya P.G. College, Panipat, Haryana, India
29.	Structural features and photophysical screening of Eu (III) complex with β -diketone and neocuproine as ancillary ligand.	Priti Boora Doon	Science & Technology for Nation Development: Opportunities & Global Challenges	February 28, 2023	National	Department of Chemistry, Arya P.G. College, Panipat, Haryana, India
30.	New insights into photoluminescent performance of Sm (III) complex with β -diketone ligand and bathophenanthroline as ancillary ligand for optoelectronic applications	Priti Boora Doon	Recent Trends in Materials and Life Sciences	September 29, 2023	National	Department of Chemistry, Maharshi Dayanand University, Rohtak, Haryana, India

31.	Photometric and spectroscopic investigations of green light emanating Terbium (III) complex with dioxo ester as main ligand and 1,10-phenanthroline as auxiliary moiety.	Priti Boora Doon	Emerging trends in Functional materials in sciences		International	Department of Chemistry, Maharshi Dayanand University, Rohtak, Haryana, India
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