CURRICULUM VITAE

- **NAME** : **DR. PRITI BOORA DOON**
- **DESIGNATION** : PROFESSOR
- **DATE OF BIRTH** : 24TH DECEMBER 1979
- **FIELD OF SPECIALIZATION** : ORGANIC CHEMISTRY
- **TEACHING EXPERIENCE** : 15 YEARS 5 MONTHS
- **RESEARCH EXPERIENCE** : 18 YEARS 5 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 Vigyan Bharati, Haryana
  - Life Member of Indian Science Congress Association, Kolkata
  - Life Member of ISEAC

- **CAREER PROFILE**:

DESIGNATION	INSTITUTION	DURATION	
PROFESSOR	DEPARTMENT OF CHEMISTRY, M.D. UNIVERSITY, ROHTAK	MAY 01, 2025	TILL DATE
ASSOCIATE PROFESSOR	DEPARTMENT OF CHEMISTRY, M.D. UNIVERSITY, ROHTAK	MAY 01, 2022	APRIL 30, 2025
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. "IBM Skills Build for Job-Seekers" orientation program on September 13, 2024.
2. Sweep program for Vote Appeal for students on September 13, 2024.
3. IBM lecture on Job reddiness on November 28,2024 under CCPC
4. Swachhata Campaign on January 24,2025 under scheme of Government of India.
5. Workshop organized on February 17-22, 2025 on the topic "Employability Enhancement Skills" by Mahindra Pride (Nandi Foundation).
6. Coordinator in Environment Sustainability and Social Awareness Programme on theme " Clean and Green Drive" organized by Department of Chemistry.
7. Organized extension Lecture on the topic “Well Being as a foundation stone to Excel Career Opportunities” under CCPC M.D.U, Rohtak.
8. Organized extension Lecture on the topic “Vedic Philosophy, Yoga and Pranayam : Bridging Ancient Wisdom with Modern Values” under CCPC M.D.U, Rohtak.
9. Workshop on Nanotechnology on 25th March, 2011 at Dept. of Physics, M. D. University, Rohtak.
10. Workshop on Current Perspectives in Advance Science from Feb 8-9, 2012 at Pt. N.R.S. Govt. College, Rohtak.
11. Orientation Course from B.P.S. Mahila Vishwavidalaya from Dec 13, 2010 to Jan 11, 2011.
12. Refresher Course from ACS, Kurukshetra University, Kurukshetra from June11 to July 1, 2014.
13. Refresher Course from Human Resource Development Centre, University of Rajasthan, Jaipur dated 04-09-2017 to 23-09-2017.
14. Two week Capacity Building Program at Faculty Development Centre, M.D. University, Rohtak dated: 11- 03-2019 to 24-03-2019.
15. 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.
16. 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.
17. 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).
18. Organized Industrial visit on 8 September 2023 as Coordinator under CCPC to Amul Plant, Rohtak.
19. Workshop organized on September 11-16, 2023 on the topic "Employability Enhancement Skills" by Mahindra Pride (Nandi Foundation).
20. Curriculum workshop on October 27-28, 2023 on the topic "Subject Specific Benchmarking of Learning Outcomes".

❖ **RESEARCH GUIDANCE**:

- Ph. D. Awarded : **7 Scholars**
- Scholars Presently Working : **4 Scholars**

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

1. Member of Quality Advisory Council.
2. Additional Coordinator Criterion-V (Student Support and Progression) in NAAC.
3. Innovation Officer in Department of Chemistry, M.D.U, Rohtak.
4. Departmental Coordinator of Career Counseling and Placement Cell.
5. Member of Academic Council, Faculty of Physical Sciences, U.G and P.G. Board of Studies.
6. 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).
7. Worked as Organizing Member for the 1st Chemistry Alumni Meet (March 29, 2018).
8. 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).
9. 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).
10. 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).
11. Member of UMC Committee.
12. 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).
13. Worked as Organizing secretary of International conference ETFMS-2024 on 21-22 November 2024 in Department of Chemistry, M.D. University, Rohtak.

❖ **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. Research Publication Promotion Incentive award for the calendar year 2022.
2. Research Publication Appreciation award for the calendar year 2022.
3. Travel Grant for International conference for the calendar year 2022.
4. Research Publication Promotion Incentive award for the calendar year 2023 awarded on April 19,2025.
5. 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.
6. Recepient of "Bharat Gaurav Award", at India International centre, New Delhi, Dec 21, 2016 for outstanding services, achievements and contribution in the field of Chemistry.
7. 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.
8. 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.
9. 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 Determinationof 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 Eu3+-doped GdSrAl3O7 nanophosphor. S. Singh, S.P. Khatkar, **P. Boora**, V.B. Taxak	J. Mater. Sci. 49 (2014) 4773–4779.	3.9	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	2.8	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	1.9	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.	1.9	0022-1139
10.	Synthesis, photoluminescence features with intramolecular energy transfer and Judd–Ofelt analysisof 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	2.8	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.	3.1	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	2.8	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.	1.9	0022-1139
14.	Synthesis, photoluminescence and biological propertiesof 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.	4.6	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	3.1	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	4.6	1873-3557
17.	Synthesis, Photoluminescence Behavior of Green Light Emitting Tb(III) Complexes and Mechanistic Investigationof 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	3.1	1573-4994
18.	Optical analysis of a novel color tunable Ba2Y(1-)Eu AlO5 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.	3.6	1872-7883
19.	Structural and photoluminescent analysis in Judd-Ofelt framework of color tunable SrGd2(1-x)Eu2xAl2O7 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	3.6	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.	3.2	1873-3255
21.	Color tunable nanocrystalline SrGd2Al2O7:Tb3+ 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.	5.6	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	11.0	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)	4.7	1042-6914
25.	A novel strategy for high color purity virescentEr^{3+}-doped $SrLaAlO_4$ nanocrystals for solid-state lightingapplications. Priyanka Sehrawat, Avni Khatkar, **PritiBoora,**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	2.8	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)	1.6	0038-7010
27.	Facile combustion synthesis of Sm^{3+} activated orange-red light emanating $Sr_6Y_2Al_4O_{15}$ 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)	3.6	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)	5.6	1873-3956
29.	Structural and optical investigation of Tb^{3+}-doped $Ba_3Y_4O_9$ 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	3.5	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	1.6	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)	3.1	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)	3.1	0009-2614
33.	Crystal structure engineering and optical analysis of novel greenish $Sr_9Al_6O_{18}:Er^{3+}$ 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)	3.1	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)	3.1	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)	3.1	0009-2614
36.	Structural, optical and morphological features of combustion derived $Ba_3Y_4O_9:Dy^{3+}$ 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 $Sr_9Al_6O_{18}:Sm^{3+}$ nano-cubesfor advanced optoelectronic applications. Priyanka Sehrawat, Dayawati, **Priti Boora**, R.K. Malik, S.P. Khatkar, V.B. Taxak	Ceramics International, 47, 5432 – 5445, (2021)	5.6	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)	3.0	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	3.1	1053-0509
40.	Structural and photometric investigations of green emanating Er3+ activated SrGd2Al2O7 nanophosphorsfor solid state illumination applications. P. Chhillar, A. Hooda, V.B. Taxak, S.P. Khatkar, **P. Boora Doon**	Materials Chemistry and Physics. 277, (2022), 125542	4.7	0254-0584
41.	Crystal chemistry and photoluminescent aspects of down-converted Tb3+ activated SrGdAlO4 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	3.5	0022-4596
42.	Synthesis and optoelectronic features of cool white light-emitting Ba3GdP3O12: Dy3+ 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	2.8	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.	4.7	1010-6030

44.	Photophysical investigations of red light emanating Eu(III) complexes with dioxoester functionalized ligandfor 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	4.7	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. BooraDoon**	Opt. Mater. (Amst). 132 (2022) 112765	4.2	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	3.0	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)	3.1	1053-0509
48.	Investigation into photoluminescence possessions of cool white light emanating novel Dy3+ 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.	4.7	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	3.2	1873-3255
50.	Spectroscopic features of Sm3+ complexes based on β-ketoester functionalized ligand for advanced optoelectronic application. M. Punia, **P. Boora Doon**	Opt. Mater. (Amst). (2023)	4.2	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	3.0	1522-7243
52.	Facile synthesis and photophysical properties of combustion derived Dy^{3+}doped $Ca_9La(PO_4)_7$ nanophosphors for advanced solid-state lighting applications. P. Chhillar, **P.B. Doon**	Inorg. Chem. Commun 159(2024) 111844	5.4	1879-0259
53.	Achieving Enhanced Cool White Light from Combustion Derived Dy3+Activated Ca9Y(PO4)7 Nanophosphors for Commercial Lighting Applications. P. Chhillar, **P.B. Doon**	Journal of Electronic Materials 53 (2024) 2319-2332	2.5	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)	3.1	1573-4994
55.	Optimized solution combustion synthesis of NUV excitable Tb^{3+} activated $Ca_9Gd(PO_4)_7$ 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	4.6	1873-4944
56.	Structural and green emissive characteristics of NUV energized Tb^{3+}activated $Ca_9La(PO_4)_7$ nanophosphors: A desirable illuminating material for multifarious applications. P. Chhillar, **P.B. Doon**	Inorg. Chem. Commun 171 (2025) 113652	5.4	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	3.6	1872-7883

58.	Exploration of structural and photophysical attributes of orange light emitting Sm (III) complexes with β-diketone antenna for advanced optoelectronic prospects. N. Dua, **P.B. Doon**	Journal of Materials Science : Materials in Electronics 36 (2025) 534	2.8	0957-4522
59.	Exploring the luminescence and photometric behavior of green emitting NUV excited Er^{3+} doped $Ca_9Y(PO_4)_7$ nanophosphor: A promising material for solid-state illumination applications. P. Chhillar, **P.B. Doon**	Solid State Sciences 163 (2025) 107885	3.3	1873-3085
60.	Photometric study and spectral characterization of samarium-tris-β-carboxylate complexes with heterocyclic auxiliary moieties. R. Gaur, **P.B. Doon**	Journal of Molecular Structure 1335 (2025) 141917	4.7	1872-8014

❖ **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**	4th ISEAC International Discussion Meet on Electrochemistry and its Applications	February 07-10, 2011	**International**	4th ISEAC held at mascot hotel, Thiruvananthapuram
03.	Combustion Synthesis and Luminescent properties of $SrLa_2O_4:Tb^{3+}$ Nanoparticles	**Priti Boora Doon**	Recent Advances inChemical Sciences	February 24-26, 2013	**International**	Department of Chemistry, Arya P.G. College, Panipat, Haryana, India
04.	Photoluminescencebehaviour of Dysprosium(III) complex with ancillary ligand.	**Priti Boora Doon**	EmergingTrends in Chemistry	March12-13, 2014	**National**	AIJHM college, Rohtak, Haryana
05.	Preparation and characterization of photoluminescent Tb(HMBP)3.biq	**Priti Boora Doon**	Photonics and Materials Science	March20-21, 2014	**National**	Department of Applied Physics, GJUniversity of Science and Technology, Hisar, India.
06.	Synthesis, Antimicrobial and Antioxidant propertiesof Tb(HDAP)3.neo	**Priti Boora Doon**	Science and Technology for Human Development	March20-21, 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 developmentsin Chemical Sciences: Opportunitiesfor 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	March26, 2016	**National**	Department of Chemistry, Arya P.G. College, Panipat, Haryana, India
10.	Investigation of luminescent properties of europium(III) complex withβ-ketoester ligand and ancillary ligand	**Priti Boora Doon**	Advances in multidisciplinary aspects of Science and Engineering	Novembe r 23, 2016	**National**	Central Instrumentation Laboratory (CIL), DCRUST, Murthal, Sonepat, 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 avid.	**Priti Boora Doon**	Symbiotic Development of Mathematical, Physical, Chemical & Computational Sciences	October28-30, 2017	**International**	Department of Mathematics G.J. University of Science and Technology, Hisar, India.
14.	Synthesis and antimicrobial properties of$Eu(HQCA)_3.H_2O$	**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 andEngineering	November 16-18, 2017	**International**	Department of Chemistry, Birla Institute of Technology and Science, Pilani Campus and Material ResearchSociety of India (MRSI), Rajasthan Chapter
16.	Investigation of structural and luminescence features of europium(III) complex with organic ligand	**PritiBoora 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 Sustainable Development.	May 19, 2018	**International**	Convention Centre Jawaharlal Nehru University, New Delhi.
18.	Investigations of luminescent properties and energy transfer mechanism of europium(III) complex.	**Priti Boora Doon**	1st 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 featuresof Europium (III) Complex for optoelectronic application	**Priti Boora Doon**	2nd 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 featuresof ternary Terbium (III) Complex with tetradentateligand and Bathophenanthroline	**Priti Boora Doon**	Innovations in Science, Engineering & Technology	Novembe r 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, 107th 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 Transformatio n 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)	Decembe r 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, Sonipat, 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 Challanges	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.	Structural features and optoelectronic investigation of Tb (III) complex with β-diketone ligand and 1,10-phenanthroline as ancillary ligand for modern photonic applications	**Priti Boora Doon**	Research Challenges In Science and Technology (ICRCST-24)	September 3-4, 2024	**International**	Institute for Sustainable Innovation & Technology (ISIT), San Francisco, USA
32.	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	November 21-22, 2024	**International**	Department of Chemistry, Maharshi Dayanand University, Rohtak, Haryana, India