

Resume

- 1) Name: **Dr. Nameeta Brahme**
- 2) Date of Birth: 12/11/1972
- 3) Designation: Professor & Head (Physics)
- 4) Academic Qualifications in chronological order:

Degree	Name of board/University	Field	Year	Div/Percentage
High School	M.P. Board, Bhopal	As per syllabus	1987	I, 80.70%
Higher Secondary	M. P. Board, Bhopal	Science (PCM)	1989	I, 76.80%
B. Sc.	Dr. H. S. Gour, University, Sagar (M.P)	Science (PCM)	1992	I, 72.80%
M. Sc	Dr. H. S. Gour, Central University, Sagar (M.P)	Physics	1994	I, 65%
M. Phil.	G. G. D. Central University, Bilaspur (C.G)	Solid State Physics	1995	I, 79%
Ph. D.	G.G.D. Central University, Bilaspur (C.G)	Solid State Physics	2003	

5) Employment Record

No.	Name of the Employer	Post	Duration
1	Higher education, Bhopal	Assistant Professor, Physics	8 years 27/11/1996 to 15/09/2004
2	Pt. Ravishankar Shukla University, Raipur	Associate Professor, Physics	6 years 16/09/2004 to 16/09/2010
3	Pt. Ravishankar Shukla University, Raipur	Professor, Physics	12 years 6 month 16/09/2010 to at present

6) Present Post & Department

Professor and Head, School of Studies in Physics and Astrophysics

(a) Date of appointment: 16/09/2010

(b) Basic Pay: 1,99,600/-

7) State/National/international/University awards if any

- **Felicited by Governor of Chhattisgarh for the work done in the field of education on 8th March 2022.**
- **Fellow, Luminescence society of India on 9th December 2021**
- **Young Scientist award 2004 by CGCOST, Raipur**
- 7th Position in University Merit list of B. Sc. (1992) of Dr. H. S. Gaur University, Sagar (M.P.)
- First position in M. Phil. (Physics) in 1996 from Guru Ghasidas University, Bilaspur (C.G.).

8) Administration:

1. **Head of the department**, SoS in Physics and Astrophysics, Pt. R. S. University, Raipur, Chhattisgarh from 25 July 2016 to 30 June 2019 and from 1 July 2022 to at present.
2. **In charge**, University Guest House and HRDC guest house, Pt. R. S. University, Raipur, Chhattisgarh from 01/07/2020 to at present.
3. **Chairman, Board of studies in Physics** from **20/07/2017 to 20/07/2020**.
4. **Coordinator, Centre for Nanoscience and Nanotechnology**, Pt. R. S. University, Raipur, Chhattisgarh.
5. **Chairperson, Internal Complaints Committee**, Redressal Cell for Sexual harassment of women at workplace, PRSU since January 2022.
6. **Head, Department of Physics**, Govt. Arts, Commerce & Science College, Kota, Bilaspur (C.G.) from Nov 27, 1996 to Sep 15, 2004

9) Membership of Academic Association:

- (a) Life member: Luminescence Society of India.
- (b) Life member: International Academy of Physical Sciences, Allahabad

10) Member in Different Committee

- i) Member, **Board of studies in Physics** from **20/07/2005 to 20/07/2008**, from **30/07/2008 to 30/07/2011**, **30/07/2014 to 30/07/2017** and from **30/07/2021 to 30/07/2024** Pt. Ravishankar Shukla University, Raipur (C.G.).
- ii) Member, **Examination Committee** 2008, 2009 and 2016, Pt. R. S. University, Raipur (C.G.).
- iii) Member, **Academic council** from **25/07/2017**

11) Examination Conducted:

- a) **Assistant Superintendent I shift**, Main Exam 2006, Pt. R. S. University, Raipur.
- b) **Assistant Superintendent I shift**, Main Exam. 2007, Pt. R. S. University, Raipur.
- c) **Observer, III shift**, B. Com. Exam. 2007, Gurukul Mahila Mahavidyalaya, Raipur.

12) Orientation Course / Refresher Course/ workshop attended:

Orientation Course

Academic Staff College, Rani Durgavati University, Jabalpur (M.P.) from Dec 11, 1998 to Jan 7, 1999.

Refresher Course

School of studies in Physics & Astrophysics, Pt. Ravishankar Shukla University, Raipur (C.G.) from Feb 3 to Feb 23, 2003.

Workshops

- (a) Workshop on Experimental Physics for college Teachers, August 7-9, 2003 C. M. D. P.G. College, Bilaspur.
- (b) Workshop on Maintenance of Electronic Instruments by WRIC Mumbai, October 4-9, 2004 at Pt. Ravishankar Shukla University, Raipur.
- (c) One day Acquaintance Program of IUAC, 20 July 2007 Pt. R. S. University, Raipur.
- (d) State level camp for college students Jan 11-13, 2010 Pt. R.S.U. Raipur (C.G.)
- (e) One day workshop on Advanced Materials August, 27, 2011 N.S. science & Arts College, Chandrapur, Nagpur.
- (f) Workshop (Saksham – I.T. Champion Training Program) on Microsoft on Dec 12-22, 2011, at Pt. Ravishankar Shukla University, Raipur.
- (g) **International workshop on Advanced Material Science and Astrophysics (IWAMA-2012) from 18/02/2012 to 21/02/2012 held at Pt. R. S. University, Raipur C.G.**
- (h) One day workshop on Nano-Science and Nano technology on 26 August 2017 held at Pt. R. S. University, Raipur, C.G.

13) Research Experience: 20 years

(a) Patent Published: 01

Title of the invention: a process for synthesis of $Mg_{21}Ca_4Na_4(PO_4)_{18}: Dy^{3+}, Tb^{3+}, Eu^{3+}$ triple doped Glasses for WLED and solar cell efficiency enhancement.
Publication Date : 22/04/2022

(b) Ph.D. awarded students –17

Ph.D. Registered Students- 05

As a Supervisor - 03

As a Co-supervisor - 02

Details of Ph.D. student's guided/continuing

Details of Ph.D. students guided			
S. No	Name of the student	Year	Title of the Dissertation
01	Manju Shukla	2008	Theoretical studies on the thin film Electroluminescence of Polymeric Materials
02	Vidya Sahu	2010	Studies on effect of particle size on the Lyoluminescence of Inorganic materials
03	Mrs. Anuradha Gupta	2015	Synthesis and Luminescent properties of rare earth codoped $Y_2O_3: Eu^{3+}$ nanophosphor.
04	Anil Choubey	08/2016	Studies on Mechanoluminescence and Thermoluminescence of gamma irradiated rare earth doped Alkaline earth aluminates.
05	Ms. Manmeet Kaur (as Co- Supervisor)	07/2016	Synthesis and studies on the optical properties of rare earth co-doped $Y_2O_3: Er^{3+}$ nanophosphor.
06	Mohammad Ziyauddin	25/02/2017	Studies on Aluminate based phosphors for ML dosimetry.
07	Smt. Savita Kukreti (as Co- Supervisor)	02/06/2017	Template based growth of Nano Materials of II-VI compounds and study of their optical properties
08	Mrs. G.Nag Bhargavi (as Co- Supervisor)	19/03/2018	Investigation of structural, Electrical and Optical Behavior of Rare Earth Doped Barium Zirconium Titanate (BZT) Perovskite type compounds
09	Geetanjali Tiwari (as Co-Supervisor)	07/04/2018	Optical Properties of Rare Earth Doped Calcium Alumino Silicate Phosphors
10	Shalinta Tigga	28/04/2018	Study on optical properties of rare earth doped alkaline earth Magnesium Aluminate based phosphors.
11	Dipti Pandey (as Co-Supervisor)	14/12/2018	Study of Optical Properties of Rare Earth Doped Alkaline Magnesium Silicate
12	Sanjay Kumar Sao	25/02/2019	Studies on the Luminescence properties of rare earth doped alkaline earth Silicate phosphor
13	Namrata Chauhan (as Co-Supervisor)	01/03/2019	Characterization and Luminescence properties of Titanate Based Phosphors
14	Shweta Sharma	30/10/2019	Luminescence properties of rare earth doped alkaline earth Alumino Silicate Phosphors
15	Tripti Richariya	18/07/2022	Study of structural and Luminescence properties of alkaline earth Alumino Silicate phosphor

16	Ugendra Kurrey	18/07/2022	Studies on the Luminescence properties of rare earth doped ZrO ₂ phosphor
17	Amit Kumar (as Co- Supervisor)	05/01/2023	Energetic cosmic transients in the context of Gamma Ray Bursts Supernovae connections

Details of Ph.D. students Submitted			
01	Yugbodh Patle	13/03/2023	Study of structural and optical properties of alkaline earth Silicate phosphor
02	Kamlesh Thakkar (as Co- Supervisor)	31/03/2023	Synthesis and characterization of Borate based Luminescent materials
Details of Ph.D. students continuing			
01	Sanjay Baghel	04/10/2018	Studies on structural and Luminescence properties of impurity doped Strontium Zirconium Silicate Phosphor
02	Nikita Shah	16/10/2019	Studies on synthesis, structural and Luminescence properties of rare earth/transition metal activated alkaline earth Gallo-silicate phosphor
03	Yuvraj Singh Jagat (as Co- Supervisor)	16/10/2019	Investigation on structural, electrical and optical properties of rare earth doped AZrO ₃ based perovskite ceramics

(c) Dissertation of M.Phil. Students – 10

- 1) Impulsive excitation of Mechanoluminescence in gamma irradiated Ca Doped KCl crystals by Ugendra Kurrey, 2008.
- 2) Studies on the effect of particle size on Lyoluminescence in gamma irradiated Ba doped KCl microcrystalline powder, Swati Gaharwal, 2009.
- 3) Studies on the effect of particle size on Lyoluminescence in gamma irradiated Sr doped KCl microcrystalline powder, Savita Sharma, 2009.
- 4) Synthesis of Pure and Eu doped Y₂O₃ Nanophosphor using combustion method and their optical properties by Manjulata Sahu, 2010.
- 5) Thermoluminescence and Mechanoluminescence of UV- irradiated ZrO₂: Eu phosphor by Shalinta Tigga, 2011.
- 6) Study on optical properties of Y₂O₃: Eu³⁺nanophosphors at different concentrations of Eu³⁺by Neha Rajput, 2012
- 7) Synthesis of Y₂O₃: Eu nanophosphors with different dose by Monika Gajbhiye, 2012.
- 8) Luminescence Property of SrAl₂O₄:Tb³⁺ Phosphor by Shalini Hardaha, 2013.
- 9) Study on Optical properties of Ca₂Al₂SiO₇: Tb³⁺ phosphor by Pawan Kumar Sahu, 2014
- 10) Studies on the optical properties of Ba_{2-x}MgSi₂O₇: xCe Phosphor by Thanewar Kumar Sahu, 2014.

14. a) Invited Talk: 33

- 1) “**Recent Developments in Mechanoluminescence of Aluminate Based Phosphors**”. National conference on current trends in material sciences, Feb 5-6, 2010 at Bhiali Mahila Mahavidyalaya, Bhilai.
- 2) “**Luminescence**” Invited lecture Aug 20, 2011 Govt. Digvijay College, Rajnandgaon.
- 3) “**Clean Energy**” UGC lecture series, March 8, 2012, Govt. Nagarjuna College of Science, Raipur.
- 4) “**Advances in Mechanoluminescence**” National conference on advances in Physics, March 15-16, 2012 at Govt. Nagarjuna College of Science, Raipur.

- 5) **“Advances in Thermoluminescence”** National Workshop on Luminescence & Its Applications, March 7-8, 2013 at Department of Physics, BMMV, Bhilai.
- 6) **“Thermoluminescence: concepts and applications”** Short Term Course on Recent Trends in Material Science II, September 30th - October 04th 2013 at Department of Physics, NIT, Raipur.
- 7) **“Luminescence and Thermoluminescence: Basic concepts”** UGC lecture series, January 30, 2014 at Nagarjuna College of Science, Raipur.
- 8) **“Synthesis, Structure and Luminescence Properties of Lanthanide Ions Doped Aluminate and Silicate based Phosphors”** National Conference on Luminescence and its applications (NCLA-2014), Feb 5-7, 2014 at Rani Durgawati University, Jabalpur.
- 9) **“Optical properties of Dy doped Aluminates and Silicate based phosphors”** International Conference on Luminescence and its Application (ICLA-2015), Feb 9-12, 2015 at PES University, Bangalore.
- 10) **“Luminescence Properties of white light emitting, gamma-ray-irradiated Dy³⁺ doped Ca₂Al₂SiO₇ phosphors”** National Conference on recent advances in Physics (NCRAP -2015) October 28-29 2015 at S.G.G Govt. PG College, Kurud.
- 11) **“Luminescence Properties of gamma irradiated Ca₂Al₂SiO₇: Eu³⁺ and Eu³⁺/Dy³⁺ codoped Phosphors”** BITCON-16, BIT, Durg during 29th-30th Jan 2016.
- 12) **“Optical investigation of Dy³⁺ codoped Ca₂Al₂SiO₇: Eu³⁺ Nano crystalline Phosphors Prepared by Combustion assisted method”** National Conference on Luminescence and its applications (NCLA-2016), Feb 18-20, 2016 at RTM University, Nagpur.
- 13) **“Luminescence properties of Dy³⁺ codoped Ca₂Al₂SiO₇: Eu³⁺ Phosphors”: Keynote Address: National Conference on Advanced Material Science and Engineering March 8-9, 2017 at Christian College of Engineering & Technology, Bhilai.**
- 14) **Luminescence properties of rare earth doped and co-doped SrMgAl₁₀O₁₇ phosphors: ISLM-2017, International Seminar on Luminescence and Materials [ISLM-2017] 16-17th June, 2017, Nanyang Technological University, Singapore.**
- 15) **Synthesis and Luminescence Properties of Ce³⁺ and Dy³⁺ singly doped and co-doped CaSrAl₂SiO₇ (CSASO) phosphors: Keynote Address: National Conference on Advanced Material Science and Engineering March 8, 2018 at Christian College of Engineering & Technology, Bhilai.**
- 16) **Optical Characterization of Ce³⁺ and Tb³⁺ singly doped and co-doped CaSrAl₂SiO₇ Phosphors: Nameeta Brahme and Shweta Sharma**
6th International Conference on Luminescence and its Applications (ICLA-2015), 07-10 January 2019 held at Pt. Ravishankar Shukla University, Raipur, Chhattisgarh.
- 17) **Comparative study on Luminescence properties of Melilite group phosphors: National Seminar on Advance Materials for sustainable Industrial and Social Applications (NSAMSISA-2020), 17th -18th January 2020 at Govt. Pt. Shyamacharan Shukla College, Dharsiwa, Raipur, Chhattisgarh**
- 18) **Luminescence properties of some silicate based phosphors and applications: Two days International webinar on advanced Materials and their applications, June 16-17, 2020, organized by department of Physics, Dr. Harisingh Gour University, Sagar (M.P.)**
- 19) **Effect of Different doping on Calcium Alumino Silicate Phosphor: International webinar on Recent Trends in Material Science, July 13, 2020, Organized by Chouksey Group of Colleges, Bilaspur (C.G.)**
- 20) **Past, present and future ways of lighting technology: National Science Day celebration on 17th Feb 2021 by Shakti Mahakaushal, Jabalpur (M. P.).**
- 21) **Time dependent perturbation Theory and Fermi's Golden Rule: Invited lecture as subject expert 24th February 2021, Govt. Digvijay College, Rajnandgaon.**

- 22) Science and technology (Contribution of women in science): Inspirational speech under DST Vigyaan Jyoti on 02/03/2021 organized by Jawahar Navodaya Vidhyalaya Manpur, Indore (M.P.)
- 23) **Lighting** Technology: National Science Day-2021 Celebration by Department of Physics, Government College, Bichhua, Chhindwara (M.P.) on 13th March 2021.
- 24) **Science and Technology (Contribution of Indian Women in Science): Multidisciplinary International Conference on Women Empowerment-2012 on 14th March 2021** organized by Social Science & Management welfare Association, Jabalpur (M.P.)
- 25) **Energy and Environment: International Webinar on Energy and Environment during 4th June to 6th June 2021** Organized by Kalyan P.G. college, Bhilai Nagar, C.G.
- 26) Luminescence and its future: National Webinar on Luminescence and its future on 20th June, organized by Dr. Harisingh Gour Vishwavidyalaya, Sagar (M.P.)
- 27) Effect of Ce³⁺ doping on different Alkaline Earth Alumino Silicate Phosphor: National Webinar cum Workshop on Luminescence Applications and Materials (NWWLAM-2021) on June 25, 2021 organized by Luminescence Society of India and SSN College of India Tamilnadu.
- 28) **A Brief overview on Luminescence and its applications: Keynote Address in National Conference on Advances in smart Nanomaterials, BITCON2021** organized by Bhilai Institute of Technology, Durg, C.G. during 22nd -23rd October 2021.
- 29) Luminescence properties of different Re³⁺ doped Barium aluminosilicate phosphors: National Conference on Luminescence and its applications (NCLA-2021) organised by Govt. V.Y.T. PG Autonomous college, Durg, C.G. December 9-11, 2021.
- 30) **Luminescence: concepts and applications in the field of smart lighting & dosimetry** “International Conference on Current Trends in Advanced Materials and their Applications for Societal Development” (ICTAMASD-2022) during 8th-10th March 2022 by the Department of Physics, Dr. Harisingh Gour University, Sagar (MP) India.
- 31) **Basics of Luminescence: Kalinga University, Raipur on 7th April 2022.**
- 32) **Global Science for global wellbeing: Celebration of National Science Day-2023** as eminent speaker in Science popularization lectures (February 21-22, 2023) at Dr. Radhabai Govt. Naveen Girls College, Raipur (C.G.) on 21st Feb 2023.
- 33) **Global Science for global wellbeing: Celebration of National Science Day-2023 :Invited Talk on National Science Day, Seth Phoolchand Agrawal Smriti Mahavidyalaya, Nawapara Raipur. Date: 27.02.2023**

b) Ongoing/Completed project

(i) “Rare earth doped Ca₂Al₂SiO₇ nano / micro-Phosphors: Synthesis, Characterization and Device Prospects” (Vide Sanction No. 15030/CGCOST/MRP/14, Raipur, dated 29/03/2014) **[Completed]**

Amount **5, 00,000/-**

PI: **Prof. Nameeta Brahme**, Co. I: Prof. D.P. Bisen

(ii) Synthesis and characterization of rare earth doped SrAl₂O₄ nanophosphor and their applications, CGCOST, Raipur. (Vide Letter No. 1222/CCOST/MRP, Raipur, dated 31/03/2010) **[Completed]**

Amount **2, 00,000/-** PI: **Prof. Nameeta Brahme**, Co. I: Prof. D.P. Bisen

c) Conference Organized:

1. **As a Convener**, Organized National Conference on Signal processing, Sustainable energy Materials and Astronomy & Astrophysics(NSSEMA-2023) from 16/03/2023 to 18/03/2023 held at Pt. R. S. University, Raipur C.G.
2. **As a Convener, organized International Conference on luminescence and Its Applications (ICLA-2019) from 7/01/2011 to 10/01/2019 held at Pt. R. S. University, Raipur C.**
3. **As a Coordinator organized SITARE Workshop**
4. As a Convener, organized one day workshop on Nano Science and Nanotechnology on 26 August 2017 held at Pt. R. S. University, Raipur C.G.
5. **As a Convener**, Organized National Conference on Signal processing, Sustainable energy Materials and Astronomy & Astrophysics(NSSEMA-2017) from 28/03/2017 to 30/03/2017 held at Pt. R. S. University, Raipur C.G.
6. **As a Convener, Organized International workshop on Advanced Material Science and Astrophysics (IWAMA-2012) from 18/02/2012 to 21/02/2012 held at Pt. R. S. University, Raipur C.G.**
7. **As an Organizing Secretary**, organized National Conference on luminescence and Its Applications (NCLA-2011) from 7/02/2011 held at Pt. R. S. University, Raipur C.G.
8. As a member, Organized an **International Meeting on Astronomical Society of India (ASI-2011)**, held at Pt. R. S. University, Raipur C.G
9. As a member National Advisory Committee, Organized NCNMA-2010, held at Nilkanthrao Shinde Science & Arts College, Bhadrawati, Nagpur.
10. As a member Local Organizing Committee, International conference on Advances in nanotechnology held at MATS University from November 06-08, 2008.
11. Member, 8th Young Scientist Congress from 9-10 April, 2010 at Pt. R.S.U. Raipur

(d) Foreign Visit

1. Zakopane, **Poland**, May 20-24th 2007 for presenting paper.
2. Lyon University, **Lyon, France**, 7-11 July 2008 for presenting paper.
3. Geneva University, **Switzerland**, July 2008 for collaborative work with Prof. Hans Hagamann.
4. Michigan University, **USA., 26 June – 2 July, 2011** for presenting paper.
5. Wroclaw, **Poland, 13-18 July 2014** for presenting paper.
6. University Karlova (University of Prague) **Czech Republic**, 17th July 2014 for University visit.
7. Nanyang Technological University, **Singapore, 16-17th June for invited talk.**

List of publications:

**Research papers published in Scopus:121,
h-index- 23, Citation:1577**

July 2022- June 2023

1. Structural, photoluminescence, and thermoluminescence behaviors of Samarium doped CaWO₄ phosphor: R. Paikaray, T. Badapanda, H. Mohapatra, T. Richhariya, **Nameeta Brahme**, Satya N. Tripathy Publisher: Elsevier
Materials Science and Engineering: B, Volume 294, **August 2023**, 116511
ISSN: 0921-5107, DOI: <https://doi.org/10.1016/j.mseb.2023.116511>, **Impact factor:3.407**
2. Investigation of photoluminescence, thermoluminescence, and energy transfer mechanism in Ce/Dy co-doped Sr₂Al₂SiO₇: Tripti Richhariya, **Nameeta Brahme**, D.P. Bisen, T. Badapanda, Kanchan Tiwari, Asmita Jain Publisher: Elsevier
Materials Science in Semiconductor Processing, Volume 159, **1 June 2023**, 107396
ISSN 1369-8001, DOI: <https://doi.org/10.1016/j.mssp.2023.107396>, **Impact factor:4.644**
3. Yttrium aluminium garnet based novel and advanced phosphor synthesized by combustion route activated by Dy, Eu, and Tb rare earth metals: Akshkumar Verma, D.P.Bisen, **Nameeta Brahme**, Ishwar Prasad Sahu and Arun kumar Singh
Journal of Materials Science: Materials in Electronics, **February 2023**, 34(7), 644
Publisher: Springer Science + Business Media
ISSN:1573-482X, DOI:10.1007/s10854-023-10022-8, **Impact factor:2.464**
4. Luminescence investigation of CaY₂Al₄SiO₁₂:Dy³⁺ phosphor synthesized by sol–gel method: AnitaVerma, A., Ravi Sharma, D. P. Bisen, **Nameeta Brahme**, Kamlesh Thakker, Shalinta Tigga, Priya Chandrakar
Luminescence, **16 March 2023**, Publisher: Wiley
ISSN:1522-7243, DOI: 10.1002/bio.4485. **Impact factor:2.464**
5. Tale of GRB 171010A/SN 2017htp and GRB 171205A/SN 2017iuk: Magnetar origin: Kumar, A.; Pandey, S.B.; Gupta, R.; Aryan, Amar; Ror, Amit K.; Sharma, Saurabh;
Brahme, Nameeta
New Astronomy, **November 2022**, Vol 97, Article no. 101889, Publisher: Elsevier B.V.
ISSN:13841076, DOI:10.1016/j.newast.2022.101889. **Impact factor:1.325**
6. Analysis of thermoluminescence glow curve and evaluation of trapping parameters of cerium activated M₂Al₂SiO₇ (M= Ca and Sr) phosphor for TLD application: T. Richhariya, Nameeta Brahme, D. P. Bisen, K. Tiwari, E. Chandrawanshi Publisher: Elsevier Ltd
Materials Chemistry and Physics, **1August 2022**, Vol 287, 126273
ISSN:02540584; DOI:10.1016/j.matchemphys.2022.126273, **Impact factor:4.094**
7. Microstructural, luminescence properties and Judd-Ofelt analysis of Eu³⁺ activated K₂Zr(PO₄)₂ phosphor for lighting and display applications: Verma, B., Baghel, R.N., Bisen, D.P., **Brahme, N.**, Jena, V.
Optical Materials, **July 2022**, 129, 112459, Publisher: Elsevier B.V.
ISSN:09253467, DOI:10.1016/j.optmat.2022.112459 , **Impact factor: 3.08**

July 2021- June 2022

8. Investigation of structural, photoluminescence, and thermoluminescence properties of Praseodymium doped CaWO_4 phosphor: Paikaray R., Badapanda, Mohapatra H., Richhariya T., Tripathy, Satya N.; **Brahme, Nameeta**
Materials Today Communications, Volume 31, June 2022 Article number 103802
Publisher: Elsevier Ltd
ISSN:23524928, DOI:10.1016/j.mtcomm.2022.103802, **Impact factor:3.662**
9. Efficient white light-emitting $\text{Mg}_{21}\text{Ca}_4\text{Na}_4(\text{PO}_4)_{18}:\text{Dy}^{3+}, \text{Tb}^{3+}, \text{Eu}^{3+}$ triple-doped glasses: a multipurpose glasses for WLEDs, solar cell efficiency enhancement, and smart windows applications: T. S. Dhapodkar, A. R. Kadam, **Nameeta Brahme, S. J. Dhoble**
Materials Today Chemistry, June 2022, 24, 100938, Publisher: Elsevier Ltd
ISSN:24685194, DOI:10.1016/j.mtchem.2022.100938, **Impact factor: 8.301**
10. Luminescence properties of a novel cyan-blue light emitting Ce^{3+} doped $\text{SrZrSi}_2\text{O}_7$ phosphor: Sanjay Kumar Baghel, **Nameeta Brahme**, D.P. Bisen, Yugbodh Patle, Tripti Richhariya, Ekta Chandrawanshi, Chitrkant Belodhiya
Optical Materials, April 2022, 126, 112141, Publisher: Elsevier B.V.
ISSN:09253467, DOI:10.1016/j.optmat.2022.112141, **Impact factor: 3.08**
11. Photoluminescence Property of Erbium-Doped Yttrium Oxide: Doping Concentration and Its Effect: Prabhjot Singh, Manmeet Kour ; **Nameeta Brahme**; D.P. Bisen; Rofiquel Umam; V.R. Panse; Ahmad Said; Saregar Irzaman;Antomi
Integrated Ferroelectrics, 6 October 2022, Volume 230, Issue 1, Pages 100 - 107
ISSN:10584587, DOI:10.1080/10584587.2022.2102803 **Impact factor: 0.836**
Publisher: Taylor and Francis Ltd.
12. Thermoluminescence studies of $\text{CdB}_4\text{O}_7:\text{Sm}^{3+}$ phosphor: Kamlesh Thakkar, Ravi Sharma, Nameeta Brahme, D.P. Bisen
Materials Today: Proceedings, January 2022, Volume 66, Pages 622 - 626
ISSN:22147853, DOI:10.1016/j.matpr.2022.06.480 **Impact factor: 1.46**
Publisher: Elsevier Ltd
13. Structural, luminescent properties and Judd-Ofelt analysis of $\text{CaMgSiO}_4:\text{Eu}^{3+}$ phosphor for solid state lighting: Bhuneshwar Verma, R. N. Baghel, D.P. Bisen, Nameeta Brahme, V. Jena
Optical Materials, January 2022, 123, 111787 Publisher: Elsevier B.V.
ISSN:09253467, DOI:10.1016/j.optmat.2021.111787, **Impact factor: 3.08**
14. Enhanced thermoluminescence properties of $\text{CaSrAl}_2\text{SiO}_7:\text{Ce}^{3+}, \text{Tb}^{3+}$ phosphor; Shweta S. Sharma, Nameeta Brahme, D. P. Bisen, Pradeep Dewangan, Ishwar Prasad Sahu, Suresh G. Onkar, Vijay S. Thool, Shilpa G. Vidhale, Girish S. Mendhe
Journal of Materials Science: Materials in Electronics, December 2021, 32(24), pp.28765–28771, Publisher: Springer
ISSN:09574522, DOI:10.1007/s10854-021-07260-z, **Impact factor: 2.478**
15. Synthesis and optical characterization of Dy^{3+} doped barium alumino silicate phosphor: Tripti Richhariya, Nameeta Brahme, D.P. Bisen, T. Badapanda, Anil Choubey, Yugbodh Patle, Ekta Chandrawanshi
Materials Science and Engineering B: Solid-State Materials for Advanced Technology, November 2021, 273, 115445, Publisher: Elsevier
ISSN:09215107, DOI:10.1016/j.mseb.2021.115445, **Impact factor: 3.407**

16. Luminescence properties of blue-emitting Ce³⁺-doped series of Ca₂Al₂SiO₇ and Sr₂Al₂SiO₇ phosphors: Tripti Richhariya, Nameeta Brahme, DP Bisen, Yugbodh Patle, Ekta Chandrawanshi, Nikeeta Shah
Journal of Materials Science: Materials in Electronics, 19 July 2021, 32(15), pp. 20793–20803 Publisher: Springer
ISSN:09574522, DOI:10.1007/s10854-021-06593-z, **Impact factor: 2.478**
17. Judd-Ofelt analysis and luminescent characterization of Eu³⁺ activated Li₂Zr(PO₄)₂ phosphor: Bhuneshwar Verma, R. N. Baghel, D.P. Bisen, Nameeta Brahme Verma, V. Jena. **Optical Materials**, August 2021, 118, 111196, Publisher: Elsevier B.V.
ISSN:09253467, DOI:10.1016/j.optmat.2021.111196, **Impact factor: 3.0**
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2nd National Conference on Signal Processing, Sustainable Energy Materials And Astronomy & Astrophysics (NSSEMA 2023) during 16-18 March 2023 at SoS in Physics & Astrophysics, Pt. Ravishankar Shukla University, Raipur (C.G.)
56. **Study of Sol-Gel synthesis and PL properties of rare earth doped garnet phosphor:** Anita Verma, Ravi Sharma, Nameeta Brahme, D.P. Bisen, Priya Chandrakar, K. Tiwari
2nd National Conference on Signal Processing, Sustainable Energy Materials And Astronomy & Astrophysics (NSSEMA 2023) during 16-18 March 2023 at SoS in Physics & Astrophysics, Pt. Ravishankar Shukla University, Raipur (C.G.)
57. **Study of TL and PL properties of $\text{Ca}_{19}\text{Zn}_2(\text{PO}_4)$ Phosphor:** K. Verma, Nameeta Brahme, D.P. Bisen, G. Dewangan, A. Gupta
2nd National Conference on Signal Processing, Sustainable Energy Materials And Astronomy & Astrophysics (NSSEMA 2023) during 16-18 March 2023 at SoS in Physics & Astrophysics, Pt. Ravishankar Shukla University, Raipur (C.G.)
58. **Study of energy Transfer Phenomenon of Ce/Dy codoped silicate phosphor:** Y. Patle, N. Brahme, D.P. Bisen, S. Baghel, D. Dewangan
2nd National Conference on Signal Processing, Sustainable Energy Materials And Astronomy & Astrophysics (NSSEMA 2023) during 16-18 March 2023 at SoS in Physics & Astrophysics, Pt. Ravishankar Shukla University, Raipur (C.G.)
59. **Luminescence properties of $\text{SrZrSi}_2\text{O}_7:\text{Dy}^{3+}$ phosphor:** S. Baghel, N. Brahme, D.P. Bisen, Y. Patle
2nd National Conference on Signal Processing, Sustainable Energy Materials And Astronomy & Astrophysics (NSSEMA 2023) during 16-18 March 2023 at SoS in Physics & Astrophysics, Pt. Ravishankar Shukla University, Raipur (C.G.)

60. **Optical properties of Sm³⁺ doped Ca₂Ga₂SiO₇ phosphor:** Nikita Shah, **N. Brahme**, D.P. Bisen, Y. Patle, S. Baghel
2nd National Conference on Signal Processing, Sustainable Energy Materials and Astronomy & Astrophysics (NSSEMA 2023) during 16-18 March 2023 at SoS in Physics & Astrophysics, Pt. Ravishankar Shukla University, Raipur (C.G.)
61. **Effect of Eu and Ce doping on TL properties of ZrO₂ phosphor:** U. Kurrey, **N. Brahme**, D. P. Bisen
2nd National Conference on Signal Processing, Sustainable Energy Materials And Astronomy & Astrophysics (NSSEMA 2023) during 16-18 March 2023 at SoS in Physics & Astrophysics, Pt. Ravishankar Shukla University, Raipur (C.G.)
62. **TL properties of sm³⁺ doped ZnB₂O₃ phosphor:** K. Thakkar, R. Sharma, **N. Brahme**, D. P. Bisen, A. Verma, A. P. Goswami
2nd National Conference on Signal Processing, Sustainable Energy Materials And Astronomy & Astrophysics (NSSEMA 2023) during 16-18 March 2023 at SoS in Physics & Astrophysics, Pt. Ravishankar Shukla University, Raipur (C.G.)

f) **Member in Different interview board**

1. Member Selection committee(As a subject expert) for the post of Assistant Professor (Physics) (section 28) at Maharaja Agrasen International College, Raipur on 10th April 2023.
2. Member Selection committee(As an Academician) for the post of Assistant Professor (Physics) (section 28) at Pandit Harishankar Shukla College, Raipur on 2nd February 2023.
3. Member Selection committee(As a subject expert) for the post of Assistant Professor (Physics) (section 28) at D.P Vipra College, Raipur on 19th January 2023.
4. Member Selection committee(As an Academician) for the post of Assistant Professor (Physics) (section 28) at Rungta College of Science, Raipur on 19th January 2023.
5. Member of the Selection committee for the teaching post under the department of Physics at **Indira Kala Sangit Vishwavidyalaya, Khairagarh**, 08/06/2021.
6. Member of the Selection committee for the teaching post under the department of Physics at **Indira Gandhi National Tribal University, Amarkantak** on 29 December 2020.
7. Member Selection committee for the post of Assistant Professor (Physics) at **Indira Gandhi Krishi Vishwavidyalaya**, Raipur on 25th June 2014.
8. Member SSC Interview Board, 23 November 2009, 21-23 December 2009, 18-22 January 2010, 7-12 June 2010.
9. Member Selection committee for the post of Assistant Professor (Physics) (section 28) at Gurukul Mahila College, Raipur on 19th March 2013.
10. Member Selection committee for the post of Librarian at Manav Rachna Education Society on 23rd March 2014.
11. Member Selection committee for the post of Assistant Professor (Computer) at Chhattisgarh Commerce and Science College, Durg on 25th September 2013.