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	14 years 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: 2,11,800/-

7) State/National/international/University awards if any
   - **Felicitated 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 01/07/2024.
3. **Chairman, Board of studies in Physics** from **20/07/2017 to 20/07/2020 and from 21/12/2023 to at present.**
4. **Incharge, Pt. Sundar Lal Sharma** Library from 02/07/2024.
5. **Coordinator, Centre for Nanoscience and Nanotechnology,** Pt. RSU, Raipur,(CG.)
6. **Chairperson, Internal Complaints Committee**, Redressal Cell for Sexual harassment of women at workplace, PRSU since January 2022.
7. **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. RSU, Raipur
ii) Member, **Examination Committee** 2008, 2009 and 2016, Pt. R. S. University, Raipur
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:

1)NEP 2020 **Orientation & Sensitization Programme** under Malviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by Malviya Mission Teacher Training Centre, Pt. Ravishankar Shukla University, Raipur, (C.G.) from 02.05.2024 to 11.05.2024

2)Orientation course Academic Staff College, R.D. University, Jabalpur (M.P.)11/12/98 to 07/01/1999.

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: 21 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 –19
Ph.D. Registered Students- 05
As a Supervisor - 04
As a Co-supervisor - 01
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 ion 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 behaviour 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
18	Yugbodh Patle	29/12/2023	Study of structural and optical properties of alkaline earth Silicate phosphor
19	Kamlesh Thakkar (as Co- Supervisor)	19/03/2024	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
04	Garima Dewangan	13/07/2022	Study on Rare Earth/ Transition Metal Ions doped Alkaline Earth Orthophosphate based phosphors for Luminescence based applications.
05	Kiran Verma	14/07/2022	Study on Rare Earth/ Transition Metal Ions doped Calcium Zink Orthophosphate phosphors for WLED's and Indoor Plant growth applications.

(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 Y_2O_3 Nanophosphor using combustion method and their optical properties by Manjulata Sahu, 2010.
5) Thermoluminescence and Mechanoluminescence of UV- irradiated ZrO_2: Eu phosphor by Shalinta Tigga, 2011.
6) Study on optical properties of Y_2O_3: Eu^{3+}nanophosphors at different concentrations of $Eu^{3+}$by Neha Rajput, 2012
7) Synthesis of Y_2O_3: Eu nanophosphors with different dose by Monika Gajbhiye, 2012.
8) Luminescence Property of $SrAl_2O_4$:Tb^{3+} Phosphor by Shalini Hardaha, 2013.
9) Study on Optical properties of $Ca_2Al_2SiO_7$: Tb^{3+} phosphor by Pawan Kumar Sahu, 2014
10) Studies on the optical properties of $Ba_{2-x}MgSi_2O_7$: xCe Phosphor by Thaneswar Kumar Sahu, 2014.

14. a) Invited Talk: 35

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, Rajnandgao.
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 Dy^{3+} doped$Ca_2Al_2SiO_7$ 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 $Ca_2Al_2SiO_7$: Eu^{3+} and Eu^{3+}/ Dy^{3+}codoped Phosphors"**BITCON-16, BIT, Durg during 29th-30th Jan 2016.
12) **"Optical investigation of Dy^{3+} codoped $Ca_2Al_2SiO_7$: Eu^{3+} 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 Dy^{3+} codoped $Ca_2Al_2SiO_7$: Eu^{3+} 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 $SrMgAl_{10}O_{17}$ phosphors: ISLM-2017,International Seminar on Luminescence and Materials [ISLM-2017] 16-17thJune, 2017, Nanyung Technological University, Singapore.**
15) **Synthesis and Luminescence Properties of Ce^{3+} and Dy^{3+} singly doped and co-doped $CaSrAl_2SiO_7$ (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 Ce^{3+} and Tb^{3+} singly doped and co-doped $CaSrAl_2SiO_7$ 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, Rajnandgao.
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 2021organized 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 2021Organized by Kalyan P.G. college, Bhilai Nagar, C.G.
26) Luminescence and its future: National Webinar on Luminescence and its future on 20th June, 2021organized by Dr. Harisingh Gour Vishwavidyalaya, Sagar (M.P.)
27) Effect of Ce^{3+} doping on different Alkaline Earth Alumino Silicate Phosphor: National Webinar cum Workshop on Luminescence Applications and Materials (NWWLAM-2021) on June 25, 2021organized 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, BITCON2021organized by Bhilai Institute of Technology, Durg, C.G. during 22nd -23rd October 2021.**
29) Luminescence properties of different Re^{3+} 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**
34) How to write Research Project: Resource person in Refresher course in Physical & Earth Science held from 11/03/2024 to 23/03/2024 by MMTTC, **Pt. Ravishankar Shukla University, Raipur, Chhattisgarh**
35) **Photoluminescence of impurities dopes inorganic phosphors for Display devices and fingerprint analysis ; International Seminar on Modern aspects of Science and Technology (17/10/2023 to 18/10 2023) organized by Govt D. B. Girls Science College Raipur on 17/10/2024.**

b) Ongoing/Completed project

(i) "Rare earth doped $Ca_2Al_2SiO_7$ 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. PI: Prof. D.P. Bisen

(ii) Synthesis and characterization of rare earth doped $SrAl_2O_4$ 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. PI: Prof. D.P.Bisen

c) Conference Organized:

1. **As a Convener,** Organized 31st International Conference of International Academy of Physical Sciences(CONIAPS XXXI) on Emerging trends in Physical Sciences During 20-21 December 2024 held at Pt. R. S. University, Raipur C.G..
2. **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.
3. **As a Convener, organized International Conference on luminescence and Its Applications (ICLA-2019) from 7/01/2019 to 10/01/2019 held at Pt. R. S. University, Raipur C.**
4. **As a Coordinator organized SITARE Workshop on 17/08/2018.**
5. 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.
6. **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.
7. **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.**
8. **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.
9. As a member, Organized an **International Meeting on Astronomical Society of India (ASI-2011),** held at Pt. R. S. University, Raipur C.G
10. As a member National Advisory Committee, Organized NCNMA-2010, held at Nilkanthrao Shinde Science & Arts College, Bhadrawati, Nagpur.
11. As a member Local Organizing Committee, International conference on Advances in nanotechnology held at MATS University from November 06-08, 2008.
12. 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. Nanyung Technological University**, Singapore, 16-17th June for invited talk.**

(e) Member Editorial Board

1. International Journal Management, Law & Science Studies
ISSN No: 24564303
2. Research & Reviews: Journal of Pure and Applied Physics
ISSN No: 2320-2459
3. SDC Journal of Theoretical and Experimental Research(SDCJTER), Sanatana Dharma College, Allappuzha
ISSN: 2583-9063

(f) Reviewer

1) Ceramics International, Elsevier Publication
2) Materials Chemistry and Physics, Elsevier Publication
3) Optical Materials, Elsevier Publication
4) Journal of Luminescence, Elsevier Publication

List of publications:

Research papers published in **Scopus:137**
h-index- 27, Citation:2063

July 2023- June 2024

1. Spectroscopic investigation by incorporation of charge compensator ions in $CaBaSiO_4:Dy^{3+}$ phosphors for solid-state lighting applications: Banjare, Ganesh; Bisen D.P.; **Brahme N**.,Belodhiya, Chitrkant
Indian Journal of Physics April 2024 98(12), pp. 3967–3980
ISSN: 09731458, DOI: 10.1007/s12648-024-03165-9 **Impact Factor:2.0**

2. Achieving structural, photoluminescence, temperature dependent photoluminescence and thermo-luminescence properties of $SrAl_2O_4:Dy^{3+},Eu^{3+}$ phosphor for WLED application Verma, Akshkumar; Sahu, Dipti; Bisen D.P.;**Brahme, Nameeta**;Barik, Priya;Sahu I.P.;Kumari, Chandni; Gupta, Prerna
Emergent Materials: July 2024 Springer Nature
ISSN 25225731**DOI**10.1007/s42247-024-00773-3

3. Unveiling the Potential of Sm^{3+} Doped Li_2SrSiO_4 Phosphor for UVC Dosimetry: Comprehensive Analysis with Synthesis, Morphological, Elemental and Thermoluminescence Studies: Tiwari, Kanchan; Sharma, Balgopal; **Brahme, Nameeta**; Bisen, Durga Prasad; Richhariya, Tripti; Sahu, Dipti;Verma, Kiran; Dewangan, Garima; Kumar, Akesh
ACS Applied Optical Materials 2024 Volume 2, Issue 6, Pages 1144 - 115828
June 2024, **ISSN** 27719855, **DOI:** 10.1021/acsaom.4c00125

4. Studies on structural, photo and thermoluminescence properties of Sm^{3+} activated $Ca_3MgSi_2O_8$ phosphors for solid-state lighting: Dewangan, Pradeep; Bisen D.P.; **Brahme N.;** Kshatri D.S.; Mishra, Shubhra; Jain, Vikas Kumar; Sharma, Hemant Kumar; Sahu, Manorama; Sahu, Ishwar Prasad. Springer publication
Journal of Materials Science: Materials in Electronics, Vol 35, Issue 13, Article no. 898**,**
May 2024 ISSN: 09574522 **DOI:** 10.1007/s10854-024-12644-y **Impact factor: 2.8**

5. Investigation of Latent Fingerprint Detection and Cheiloscopy Development Using $Li_2SrSiO_4:Tb^{3+}$ Phosphor for Forensic-Based Applications**:** Tiwari, Kanchan; Sharma, Bal Gopal; **Brahme, Nameeta**; Bisen, Durga Prasad;Richhariya, Tripti, Verma, Anita; Sahu, Somnath;Tripathi, Raunak; Sinha, Akash
ACS Applied Optical Materials, Volume 2, Issue 3, Pages 433 - 44422 March 2024
ISSN: 27719855, **DOI:**10.1021/acsaom.3c00453 **Impact factor: NA**

6. Investigation of photoluminescence and thermoluminescence properties of UV& γ irradiated $Li_4SrCa(SiO_4)_2:Dy^{3+}$ phosphor: Sahu, Dipti; Verma, Aksh kumar; Bisen D.P., **Brahme, Nameeta**, Belodhiya, Chitrakant, Tiwari, Kanchan, Sahu, Aastha
Journal of Materials Science: Materials in Electronics, Volume 35, Issue 7,
March 2024 Article number 527 Publisher: Springer
ISSN: 09574522, DOI: 10.1007/s10854-024-12287-z, **Impact factor:2.779**

7. Study of morphological, elemental, optical and excitation wavelength dependent red photoluminescence in Eu^{3+} doped Li_2SrSiO_4 for solid state lighting: K. Tiwari, B. G. Sharma, **Nameeta Brahme,** D.P. Bisen, T. Richhariya, A. Verma, S. Sahu, A. Sinha
Materials in Semiconductor Processing, Vol 171, Page 107997
March 2024 ,ISSN: 13698001 **,DOI:**10.1016/j.mssp.2023.107997, **Impact Factor: 4.6**

8. Other emerging applications of mechanoluminescence and outlook: Kanchan Tiwari , **Nameeta Brahme**
Mechanoluminescence in Organic and Inorganic Compounds: Basic Concepts, Instrumentation, and Applications: Pages 241 - 2641
January 2024, ISBN: 978-032395301-6, 978-032395302-3
DOI:10.1016/B978-0-323-95301-6.00008-1 , Publisher: Elsevier Science Ltd.

9. Photoluminescence studies of Eu^{3+} doped bismuth silicate based phosphor for plant grow LEDs: E. Chandrawanshi; D.P. Bisen ; **Nameeta Brahme**
Materials Letters : X, Volume.20 Page-100220
Dec. 2023, ISSN: 25901508 **DOI:** 10.1016/j.mlblux.2023.100220 **Impact Factor 1.78**

10. Exploration of crystal structure, and luminescence behaviors of Terbium-activated $CaWO_4$ phosphor**:** Paikaray R.; Badapanda T.; Mohapatra H.**;**Richhariya T.;Tiwari K.; **Brahme, Nameeta**;Tripathy, Satya N.
Journal of Molecular Structure,Volume 129015 Article number 135902
October 2023 ISSN: 00222860 **DOI:** 10.1016/j.molstruc.2023.135902,**Impact Factor 3.8**

11. Luminescence Studies of $CaY_2Al_4SiO_{12}:Eu^{3+}$ Phosphor by Sol–Gel Method: Verma, Anita; Sharma, Ravi; Bisen D.P.; **Brahme, Nameeta**; Richhariya, Tripti; Tiwari, Kanchan;Thakkar, Kamlesh
Journal of Electronic Materials, Volume 52, Issue 10, Pages 6769 – 6777
October 2023 ISSN: 03615235, DOI: 10.1007/s11664-023-10610-8, **Impact factor:2.1**

12. Structural, photoluminescence, and thermoluminescence behaviors of Samarium doped $CaWO_4$ 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**

July 2022- June 2023

13. Investigation of photoluminescence, thermoluminescence, and energy transfer mechanism in Ce/Dy co-doped $Sr_2Al_2SiO_7$: 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**

14. Luminescence studies of Sm^{3+} doped CdB_4O_7 phosphors: Kamlesh Thakkar, Ravi Sharma, **Nameeta Brahme**, DP Bisen, Anita Verma, Tripti Richhariya
Journal of Materials Science: Materials in Electronics,34 (14) Jan 2023 1151
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July 2021-June 2022

40. Impact of Ce/Dy cooping on Calcium aluminosilicate phosphors: Tripti Richariya, **Nameeta Brahme**, D.P. Bisen
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41. **Synthesis and studies on Luminescence properties of Cerium doped alkaline earth silicate phosphors:**S.K. Baghel, **Nameeta Brahme,** D.P. Bisen, AK. Verma, Yugbodh P., Nikita S
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42. **Study of Thermoluminescence and Dosimetry property of Cerium doped Alkaline Earth Silicate Phosphor**: Yugbodh Patle, **Nameeta Brahme,** D.P.Bisen, Aksh Kumar Verma, Sanjay Baghel, Durgesh Dewangan
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43. **Luminescence properties of Tb^{3+} doped $Sr_3MgSi_2O_8$ Phosphors**:Pradeep Dewangan., D.P. Bisen, **Nameeta Brahme**, Shweta Sharma, R. Tamrakar, I. P. Sahu
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44. **Synthesis, structural and luminescence properties of Ce doped calcium gallium silicate phosphor**: Nikita Shah, **Nameeta Brahme**, D.P.Bisen, Tripti Richaria, Yugbodh Patle, Sanjay K Baghel
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45. **Thermoluminescence investigations of Dy doped Cadmium tetra Borate Phosphor:** Kamlesh Thakkar, Ravi Sharma, **Nameeta Brahme**, D.P. Bisen, Tripti Richhariya
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46. **Photoluminescence and Judd Ofelt parameters of $Li_2SrSiO_4:Eu^{3+}$**: Kanchan Tiwari, **Nameeta Brahme**, D.P. Bisen, B.G.Sharma
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49. Analysis of Cerium activated $Ba_2Al_2SiO_7$ phosphor for display devices and TLD applications Tripti Richharia, **Nameeta Brahme**, D.P. Bisen, Kanchan Tiwari
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62. **Effect of Eu and Ce doping on TL properties of ZrO_2 phosphor**: U. Kurrey**, N. Brahme**, D. P. Bisen
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