

Resume

- 1) Name: Dr. Nameeta Brahme
- 2) Date of Birth: 12/11/1972
- 3) Designation: Professor (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, University, Sagar (M.P)	Physics	1994	I, 65%
M. Phil.	G.G.D. University, Bilaspur (C.G)	Solid State Physics	1995	I, 79%
Ph. D.	G.G.D. 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	7 years 16/09/2010 to at present

- 6) Present Post & Department

Professor, School of Studies in Physics and Astrophysics

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

(b) Basic Pay: 55,520/- + 10000 AGP

- 7) State/National/international/University awards if any
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, Department of Physics, Govt. Arts, Commerce & Science College, Kota, Bilaspur (C.G.) from Nov 27, 1996 to Sep 15, 2004.
2. Head of the department, SoS in Physics and Astrophysics, Pt. R. S. University, Raipur, Chhattisgarh from 25 July 2016 to till date.
- 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/Interview Board:
i) Member, **Board of studies in Physics** from **20/07/2005 to 20/07/2008**, from **30/07/2008 to 30/07/2011** and from **30/07/2014 to 30/07/2017**
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 Examination 2007, Pt. R. S. University, Raipur.
c) **Observer, III shift**, B. Com. Examination 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, Pt. Ravishankar Shukla University, Raipur (C.G.) from Feb 3 to Feb 23, 2003.
- Workshop**
(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: 14 years

Ph.D. awarded students – 07

Ph.D. Submitted - 04

Ph.D. Registered Students

As a Supervisor - 01

As a Co-Supervisor - 03

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 ₂ O 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 ₂ O ₃ : Er ³⁺ nanophosphor.
06	Mohammad Ziyauddin	25/02/2017	Studies on Aluminate based phosphors for ML dosimetry.
07	Smt. Savita Kukreti	02/06/2017	Template based growth of Nano Materials of II-VI compounds and study of their optical properties
Details of Ph.D. students submitted			
01	Sanjay Kumar Sao	July 2017	Studies on the Luminescence properties of rare earth doped alkaline earth Silicate phosphor
02	Shalinta Tigga	July 2017	Study on optical properties of rare earth doped alkaline earth Magnesium Aluminate based phosphors.
03	Geetanjali Tiwari (as Co-Supervisor)	July 2017	Optical Properties of Rare Earth Doped Calcium Alumino Silicate Phosphors
04	Dipti Pandey (as Co-Supervisor)	July 2017	Study of Optical Properties of Rare Earth Doped Alkaline Magnesium Silicate

Details of Ph.D. students continuing			
01	Shweta Sharma	Sep 2015	Luminescence properties of rare earth doped alkaline earth alumino silicate phosphors
02	Narsing Sahu (as Co-Supervisor)	2013	
03	Namrata Chawhan (as Co-Supervisor)	2013	
04	Ugendra Kurrey	2013	Studies on the Luminescence properties of rare earth doped ZrO ₂ phosphor

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 Thaneswar Kumar Sahu, 2014.

14.a) Invited Talk:

- 1) “**Recent Developments in Mechanoluminescence of Aluminate Based Phosphors**”. National conference on current trends in material sciences, Feb 5-6, 2010 at Bhilai 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 Dy³⁺ doped Ca₂Al₂SiO₇ phosphors”** National Conference on recent advances in Physics (NCRAP -2015) October 28-29 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.**

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 one day workshop on Nano Science and Nanotechnology on 26 August 2017 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-2017) from 28/03/2017 to 30/03/2017 held at Pt. R. S. University, Raipur C.G.
3. **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.**
4. **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.
5. As a member, Organized a International Meeting on Astronomical Society Of India (ASI-2011), held at Pt. R. S. University, Raipur C.G
6. As a member National Advisory Committee, Organized NCNMA-2010, held at Nilkanthrao Shinde Science & Arts College, Bhadrawati, Nagpur.
7. As a member Local Organizing Committee, International conference on Advances in nanotechnology held at MATS University from November 06-08, 2008.
8. Member, 8th Young Scientist Congress from 9-10 April, 2010 at Pt. R.S.U. Raipur

d) List of publications

Research papers published in refereed Foreign Journals: 85

1. Deformation luminescence produced during application and release of pressure on to gamma irradiated CaF₂: RE crystals: R. S. Kher, **N. Brahme**, M. Banerjee, S. J. Dhoble & M. S. Khokher: **Radiation Protection Dosimetry** (Oxford University Press)
12 May 2006, Vol. 119, No. 1-4: 62-65 **Impact factor: 0.909**

July 2008- June 2009

2. Kinetics of transient electroluminescence in organic light emitting diodes. Manju Shukla, Pankaj Kumar, S. Chand, **Nameeta Brahme**, R. S. Kher and M.S.K. Khokhar.
J. Phys. D. Appl. Phys. (IOP publishing)
21 July 2008, 41 (2008) 165101 (5pp) **Impact factor: 2.528**, ISSN 1361

July 2009- June 2010

3. Mechanoluminescence and Thermoluminescence in gamma-irradiated rare earth doped CaF₂ crystals. **Nameeta Brahme**, D. P. Bisen, R. S. Kher & M.S.K. Khokhar
Physics Procedia (Elsevier)
August 2009, Vol 2, Issue 2, , pp 431-440, ISSN: **1875-3892**
4. Effect of temperature on the synthesis of CdS:Mn doped nanoparticles: D.P.Bisen, Ravi Sharma, Nameeta Brahme, Raunak Tamrakar
Chalcogenide Letters (Academy of Romanian Scientists)
29 Sep 2009, Volume 6, Issue 9, Pp 427-431 **Impact factor- 0.676**, ISSN 1584-8663

5. Effect of Lyoluminescence decay in impurity doped KCl microcrystalline powder in Lyoluminescence Dosimetry of Ionization Radiation. V.Sahu, **N. Brahme**, D. P. Bisen, R. Sharma. **Journal of Optoelectronics and Biomedical Materials**, Sep.2009, Vol.1, Issue 3, pp 297-302. **ISSN: 2066-0049**

July 2010- June 2011

6. Effect of temperature on Lyoluminescence of divalent impurity doped potassium chloride: V. Sahu, **N. Brahme**, D. P. Bisen, R. Sharma.
Optoelectronics and Advanced Materials-Rapid Communications (National institute of Optoelectronics, Romania)
12 March 2010, Vol.4, No.3, pp305-308 **Impact factor: 0.402**, ISSN: 1842-6573
7. Chemical route synthesis dependent particle size of Mn activated ZnS nanophosphors: R. Sharma, S. J. Dhoble, D. P. Bisen, **N. Brahme** & B. P. Chandra
Int. J. Nanoparticles (Inderscience Enterprises Ltd)
Jan 2011, Vol.4 No.1, pp 64-76, ISSN: 1753-2507
8. Mechanoluminescence glow curve of ZnS: Mn nanocrystals prepared by chemical route. R. Sharma, D. P. Bisen, **N. Brahme**, B .P. Chandra.
Digest journal of Nanomaterials and Biostructures
April-June (2011), Vol. 6, No 2, **pp 483-490 Impact factor: 1.750** ISSN 1842-3582
9. Mechanoluminescence by impulsive deformation of gamma irradiated Er doped CaF₂ Crystals: **Nameeta Brahme**, Manju Shukla, D. P. Bisen, U. Kurrey, Anil Choubey, R. S. Kher, Manisha Singh.
Journal of Luminescence [Elsevier publication]
Jan 2011, Vol. 131, pp 965-969 **Impact factor: 2.75** ISSN 0022-2313
10. Improved efficiency of MEH-PPV: PCBM solar cells by the use of ZnS nano-Particles: Manju Shukla, **Nameeta Brahme** **Polym. Bull.** ,
20 May 2011, **Impact factor: 1.215** **ISSN: 1436-2449**

- 11. Mechanoluminescence & Thermoluminescence of SrAl₂O₄: Eu Nano-Phosphors**
Anil Kumar Choubey, **Nameeta Brahme**, D. P. Bisen and Ravi Sharma
The Open Nanoscience Journal, 2011, 5, (Suppl 1-M3) 41-44 **ISSN: 1874-1401**

12. Mechanoluminescence and thermoluminescence of Mn doped ZnS nanocrystals:
Ravi Sharma, D.P.Bisen, S.J.Dhoble, N. Brahme, B.P.Chandra
Journal of Luminescence [Elsevier publication]
May 2011, Vol. 131, Issue 10, pp 2089–2092 **Impact factor: 2.75** ISSN 0022-2313

July 2011- June 2012

13. Mechanoluminescence By Impulsive Deformation And Photoluminescence of SrAl₂O₄: Eu Phosphor Prepared By Combustion Synthesis: Anil Kumar Choubey, **Nameeta Brahme**, D. P. Bisen: **Physics Procedia**, [Elsevier pub]
25 Aug 2011, Vol. 29 (2012) 104-108 ISSN: 1875-3892

14. Thermoluminescence and mechanoluminescence of Eu doped Y₂O₃ nanophosphors
Nameeta Brahme, Anuradha Gupta, Durga prasad Bisen R. S. Kher, S. J. Dhoble
Physics Procedia, [Elsevier pub] **25 Aug 2011, Vol. 29 (2012) 97-103** ISSN: 1875-3892
15. Synthesis, photoluminescence and mechanoluminescence properties of Eu³⁺ ions
 Activated Ca₂Gd₂W₃O₁₄ phosphors: S. Sailaja, S. J. Dhoble, **Nameeta Brahme**, B. Sudhakar
 Reddy.
Journal of Materials Science [Springer Publication]
 Dec 2011, Vol. 46, issue 24, pp-7793-7798 **Impact factor: 1.855** ISSN **0022-2461**
16. Combustion synthesis of Sr₆AlP₅O₂₀: Dy³⁺ submicron phosphor for high dose TL dosimetry:
 K.N. Shinde, S.J. Dhoble, **Nameeta Brahme**, Animesh kumar
Radiation Measurements
 18 Jan 2011, Vol 46, pp 1886-1889 **Impact factor: 1.121** ISSN **1350-4487**
17. Synthesis, structural, photoluminescence and mechanoluminescence properties of
 Tb³⁺: Ca₂Gd₂W₃O₁₄ novel green nanophosphors: S. Sailaja, S. J. Dhoble, **Nameeta
 Brahme**, B. Sudhakar Reddy.
Journal of Materials Science, 47, Number 5 (2012) 2359–2364 **March 2012**
 SCI Journal [Springer Pub.] **Impact factor: 1.855** ISSN **0022-2461**
18. Mechanoluminescence and thermoluminescence of BaFCl: Sm²⁺ and BaFBr: Sm²⁺
 crystals: **N. Brahme**, M. Shukla, A.K. Choubey, U. Kurrey, D. P. Bisen, and S.J.Dhoble
Radiation Effects & Defects in Solids, (Taylor & Francis)
 May 2012, Vol. 167, No. 5, pp 326–332 **Impact factor: 0.66** ISSN **1042-0150**

July 2012- June 2013

19. Studies on Thermoluminescence (TL) from BaAl₂O₄: Dy phosphor, Mohammad Ziyauddin,
Nameeta Brahme, D. P. Bisen, R.S. Kher.
International Journal of Luminescence and Applications, Vol 3, No. 1,
Jan 2013, Article ID: 019, pages 76 - 78. ISSN **2277 – 6362**
20. Enhancing effect of Hydrazine on Chemiluminescence of Luminol-H₂O₂ system: M.
 Shukla, A. Tiwari, **N. Brahme**, R. S. Kher, S. J. Dhoble.
Journal of Applied Spectroscopy, (Springer publication)
 May 2013, Vol. 80, No.2, **Impact factor: 0.514** ISSN **0021-9037**

July 2013- June 2014

21. Effect of rare earth ions (Tb, Ce, Eu, Dy) on the Thermoluminescence characteristics of sol-
 gel derived and irradiated SiO₂ nanoparticles: Namrata bajpai, Ashish Tiwari, S A Khan,
 R.S. Kher, Namita Bramhe, S.J.Dhoble
Luminescence (Wiley)
 13 Nov 2013, Vol. 29(6) pp 669-673; **Impact Factor: 1.68** ISSN **1522-7243**
22. Thermoluminescence investigation of sol-gel derived and γ -irradiated SnO₂: Eu³⁺
 nanoparticles. Namrata Bajpai, S.A. Khan, R.S. Kher, **Nameeta Brahme**, S.J. Dhoble,
 Ashish Tiwari

Journal of Luminescence (Elsevier publication),
September 2013, Vol. 145 (2014) pp 940-943 **Impact factor: 2.144** **ISSN 0022-2313**

23. Thermoluminescence and Photoluminescence of Eu^{3+} doped Y_2O_3 Nanophosphors.
Nameeta Brahme, Anuradha Gupta
International Journal of Luminescence and Its Application Volume 3(II) 125-131, July, 2013 **Impact factor: 3.8** **ISSN 2277 – 6362**
24. Thermoluminescence characterization of γ -ray irradiated Dy^{3+} activated SrAl_4O_7 nanophosphor, Anil Kumar Choubey, **Nameeta Brahme**, S.J.Dhoble, D.P. Bisen, K.B. Ghormare, **Advanced Materials Letters** (VBRI press) 10 November 2013, Vol. 5, issue7, pp 396-399, **Impact factor: 1.93** **ISSN 0976-3961**
25. Characterization and luminescence properties of Gd_2O_3 phosphor: Raunak Kumar Tamrakar, D. P. Bisen, **Nameeta Brahme**
Research on Chemical Intermediates
May 2014, Vol. 40, issue 5, pp 1771-1779, **Impact factor: 2.144** **ISSN 0922-6168**
26. Thermo and mechanoluminescence studies of BZT phosphor Ayush Khare, B. Nag Bhargavi, Namrata Chauhan, **Nameeta Brahme**
Optik (Elsevier Publication)
24 April 2014, Vol. 125, pp 4655–4658 **Impact factor: 0.77** **ISSN: 0030-4026**
27. Electroluminescence and photoluminescence of rare earth (Eu, Tb) doped Y_2O_3 nanophosphor: Anuradha Gupta, **Nameeta Brahme**, Durga Prasad Bisen,
Journal of Luminescence (Elsevier Publication)
26 June 2014, **Vol. 155**, pp 112-118, **Impact factor: 2.144** **ISSN 0022-2313**

July 2014- June 2015

28. Morphological and structural Studies on Erbium (Er^{3+}) and Ytterbium (Yb^{3+}) doped Yttrium Oxide nanophosphors prepared by combustion synthesis method: Manmeet Kaur, D.P.Bisen, **Nameeta Brahme**, Prabhjot Singh
Journal of Engineering Computers & Applied Sciences (JECAS) Vol 3, No.7, pp 25-28, July 2014. **ISSN: 2319-5606**
29. Dysprosium doped di-strontium magnesium di-silicate white light emitting phosphor by solid state reaction method Ishwar Prasad Sahu, D.P. Bisen, **Nameeta Brahme**
Displays (Elsevier Publication)
14 Oct 2014, Vol. 35, pp 279-286 **Impact Factor: 1.205** **ISSN: 0141-9382**
30. Comparison of photoluminescence properties of Gd_2O_3 phosphor synthesized by combustion and solid state reaction method, R. K. Tamrakar, Durga Prasad Bisen, **Nameeta Brahme**
Journal of Radiation Research and Applied Sciences, 7(2014), 550-559
Elsevier Publication **ISSN: 1687-8507**

31. UV and gamma ray induced thermoluminescence properties of cubic $Gd_2O_3: Er^{3+}$ phosphor, Raunak Kumar Tamrakar, Durga Prasad Bisen, Ishwar Prasad Sahu, **Nameeta Brahme**
Journal of Radiation Research and Applied Sciences 7, issue 4(2014) 417-429
ISSN: 1687-8507
32. Luminescence properties of Eu^{2+} , Dy^{3+} - doped $Sr_2MgSi_2O_7$ and $Ca_2MgSi_2O_7$ phosphors by solid state reaction method: Ishwar Prasad Sahu, D.P. Bisen, **Nameeta Brahme**, Ravi Sharma
Research on Chemical Intermediate (Springer)
Sep 2015, Vol. 41, issue 9, pp-6649-6664 **Impact factor: 1.221** ISSN:0922-6168
33. Structural and luminescence behavior of $Gd_2O_3: Er^{3+}$ phosphor synthesized by solid state reaction method: Raunak Kumar Tamrakar, D.P. Bisen, **Nameeta Brahme**, Ishwar Prasad Sahu, Kanchan Upadhyay
Optik, (Elsevier)
20 June 2015, Vol. 126, pp 2654-2658, **Impact factor: 0.67**, ISSN: 0030-4026
34. Effect of capping agent concentration on Thermoluminescence and Photo Luminescence of copper doped Zink sulphide nanoparticles: Lata Vanjare, Durga Prasad Bisen, **Nameeta Brahme**, Ishwar Prasad Sahu, Ravi Sharma
Luminescence: The Journal of Biological and Chemical Luminescence, Wiley
17 Sep 2014, Vol. 30 (2015) issue10, Pp 655-659, **Impact factor: 1.675**
ISSN: 1522-7243
35. Thermoluminescence and Mechanoluminescence Properties of UV- Irradiated $Ca_2Al_2SiO_7: Ce^{3+}, Tb^{3+}$ Phosphor: Geetanjali Tiwari, **Nameeta Brahme**, D.P. Bisen, Sanjay Kumar Sao and Ravi Sharma
Physics Procedia (Elsevier)
2015, Vol. 76, pp 53-58 ISSN: **1875-3892**
36. Luminescence properties of $Sr_2MgSi_2O_7: Eu^{2+}, Ce^{3+}$ phosphors by solid state reaction method: Ishwar Prasad Sahu, D.P. Bisen, Nameeta **Brahme**, L. Wanjari, Raunak Kumar Tamrakar, **Physics Procedia (Elsevier)**
2015, Vol. 76, pp 526 ISSN: **1875-3892**
37. Down conversion luminescence property of Er^{3+} and Yb^{3+} co-doped Gd_2O_3 crystals Prepared by combustion synthesis and solid-state reaction method: Raunak Kumar Tamrakar, Durga Prasad Bisen, Kanchan Upadhyay, **Nameeta Brahme**
Superlattices and Microstructures,
May 2015, pp 34-48 **Impact factor-1.979** ISSN 0974-9373
38. Characterization Techniques and Mechanoluminescence Properties of $Sr_2SiO_4: Eu^{2+}$ Phosphor by Solid State Reaction Method.
Ishwar Prasad Sahu, D.P. Bisen, **Nameeta Brahme**, V.K. Patle, Raunak Tamrakar
Research Journal of Science and Technology, 6(3): July-September, 2014, 147-150, A&V Publication
Print ISSN: 0975-4393

39. Photoluminescence and Thermoluminescence properties of rare earth doped $\text{CaAl}_2\text{Si}_2\text{O}_8$ phosphors. G. Tiwari, N. Brahme, R Sharma, D. P. Bisen, S K Sao
International Research Journal of Engineering and Technology (IRJET) Volume: 02
Issue: 02 | May-2015 e-ISSN: 2395 - 0056 **Impact Factor: 2.518**

July 2015- June 2016

40. Europium doped di-calcium magnesium di-silicate orange red emitting phosphor by solid state reaction method: Ishwar Prasad Sahu, D.P. Bisen, **Nameeta Brahme**
Journal of Radiation Research and Applied Sciences Vol 8, issue 3, July 2015
Pp 381-388
41. Thermoluminescence characteristics of ZnS:Cu Nanophosphor: L. Wanjari, D. P. Bisen, N. Brahme, Ishwar Prasad Sahu
Journal of Optoelectro and Biomedical Materials: Vol. 7, Issue 3,
July -September 2015 pp. 59 – 65
42. Studies on the luminescence behavior of $\text{SrCaMgSi}_2\text{O}_7$: Eu^{3+} phosphor by solid state reaction method: I. P. Sahu, D.P.Bisen, **Nameeta Brahme**, R. Tamrakar
Journal of Materials Science: Materials in Electronics, (Springer)
1 Feb 2016, Volume 27, Issue 2, Pp 1828-1839 **Impact factor: 1.798** ISSN: 1573-482X
43. Structural Characterization and optical properties of $\text{Ca}_2\text{MgSi}_2\text{O}_7$: Eu^{2+} , Dy^{3+} Phosphor by solid state reaction method: Ishwar Prasad Sahu, D.P. Bisen, **Nameeta Brahme**
Luminescence: The Journal of Biological and Chem. Lum. (Wiley Publication)
2015, Vol. 30, issue10, Pp 526-532, **Impact factor: 1.675** Online ISSN: 1522-7243
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1. "Mechanoluminescence and effect of temperature on ML in γ irradiated Ce doped CaF_2 Single crystals" 9th Annual Conf. of the International Academy of Physical Science Feb 3-5, 2007, Dr. B.R. Ambedkar University, Agra.
2. **"Impulsive excitation of ML in γ irradiated Er doped CaF_2 Single crystals." Joint fifth International conference on Solid State Crystals & Eighth Polish Conference on Crystal Growth May 20-24th 2007 Zakopane, POLAND.**
3. "TSL in γ - irradiated rare earth doped CaF_2 Single crystals." Tenth conference of International Academy of Physical Sci. (CONIAPS-X) 12-14 Jan, 2008 G.G.D. University, Bilaspur (C.G.).
4. **"Comparative studies of DL and TSL in γ -irradiated rare earth doped CaF_2 crystals." Third International conference on Luminescence and its application (ICLA-08) Feb 13-16 2008 National physical laboratory, New Delhi.**
5. **"Effect of particle size on the Lyolumin. of Ca doped KCl crystals" The 15th International Conference on Luminescence and Optical Spectroscopy of Condensed matter 7-11 July, 2008 Lyon University, Lyon, France.**
6. **"ML by impulsive deformation of SrAl_2O_4 : Eu Phosphor prepared by Combustion Synthesis" Indo-Russian Workshop on Nanotechnology and Laser Induced Plasma Nov. 24-26, 2009 Delhi University, New Delhi.**
7. "Synthesis and TL studies of $\text{ZnS}:\text{Cu}$ nanoparticles". Pp 155-158 National Conference on Novel Materials and their application (NCNMA-2010) Dec 18, 2010 N.S. Sci. and Arts College, Bhadravati, M.S.
8. "Thermoluminescence of CaAl_2O_4 Phosphors prepared by Combustion Synthesis" National Conf.on Lumin. and its Applications (NCLA 2011) Feb,7-9 2011 Pt. R.S.U. Raipur(C.G.)
9. **"Thermo luminescence and ML of Eu doped Y_2O_3 nanophosphor" 16 International Conf. on Luminescence, ICL'11, June 26-July2, 2011 Michigan University, USA.**
10. "Lyoluminescence of gamma- Irradiated Sr Doped KCl Microcrystalline Powder" Govt. Science College, Durg National Conference on Recent Trends in Physics of Solids Oct, 11-12, 2011.
11. **"Synthesis of SrAl_2O_4 : Eu Phosphor by Combustion Method and Its Possible Applications for Mechanoluminescence Dosimetry" International Conference on Accelerator Radiation Safety (CARS-2011) Nov 16-18, 2011 BARC, Mumbai.**
12. Synthesis and Characterization of Advanced Materials, NCSCAM, Janata Mahavidyalaya, Oct 8, 2011 Chandrapur, Nagpur.

13. **“Thermoluminescence and ML of γ - irradiated Eu doped Y_2O_3 nanophosphor Fourth International Conference on Luminescence and it’s Applications (ICLA-2012) Feb7-10 2012 Indian Institute of Chemical Technology, Hyderabad.**
14. Mechanoluminescence properties of $SrAl_2O_4: Tb^{3+}$ phosphors,
National Conference on Advances in Physics March 15-16, 2012 Govt. Nagarjuna College of Science Raipur.
15. Thermoluminescence properties of $Ba_2MgSi_2O_7: Eu^{2+}$ Phosphor: National Conference on Luminescence (NCLA-2014) during February 5-7, 2014 at Rani Durgawati University, Jabalpur(M.P.)
16. Mechanoluminescence properties and absorption spectra of $Ca_2Al_2SiO_7$ Phosphor: National Conference on Luminescence (NCLA-2014) during February 5-7, 2014 at Rani Durgawati University, Jabalpur (M.P.)
17. The optical characteristics and luminescence properties of $Y_2O_3:Tb$ nanophosphors:
National Conference on Luminescence (NCLA-2014) during February 5-7, 2014 at Rani Durgawati University, Jabalpur (M.P.)
18. Optical properties of rare earth doped $Ca_2MgSi_2O_7$ phosphors:
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July 2014- June 2015

19. **Mechanoluminescence & Thermoluminescence properties of $Ca_2Al_2SiO_7: Ce$ phosphor prepared by combustion method.
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20. **Optical properties of Dy doped Aluminate based phosphors: Nameeta Brahme
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21. **Synthesis of Ce^{3+} doped $Ca_2Al_2Si_2O_8$ phosphor and investigation of its luminescence properties.
“National Conference on Luminescence and Applications[NCLA-2017] 9-11 January 2017
Shweta Sharma, Nameeta Brahme, D.P.Bisen, Shalinta Tigga, Geetanjali Tiwari, Pradeep Dewangan.**
22. Effect of excitation energy on photoluminescence Properties of Ti doped ZrO_2 phosphors.
Ugendra Kurrey, Nameeta Brahme, D.P.Bisen, Shweta Sharma
“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.”

23. Effect of flux on crystal structure and Luminescence Properties of $\text{CaSrAl}_2\text{SiO}_7$ phosphor.
Shweta Sharma, **Nameeta Brahme**, D.P.Bisen, Shalinta Tigga, Geetanjali Tiwari, Pradeep Dewangan, Dipeeka Sahu, Rashmi Verma
“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.”
24. **Enhancement on the Luminescence behavior of Dy^{3+} doped Calcium Ortho Silicate in presence of Li^+ ion**
Ganesh banjare, D.P.Bisen, **Nameeta Brahme**, Pradeep Dewangan
“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.”
25. **Structural and optical behaviour of Europium modified $\text{BaZr}_{0.05}\text{Ti}_{0.95}\text{O}_3$ ceramic prepared by solid state reaction method:** G. Nag Bhargavi, Ayush Khare, **Nameeta Brahme**
A National Seminar on Advanced Research in Physics- Its Role in Development of Society, 29th Jan 2018 at Digvijay College, Rajnandgao (C.G.)