

School of Studies in Physics and Astrophysics

Last Five Year Publications:

Prof. Nameeta Brahme

S. No.	Title	Authors Name	Journal Names	Year
1.	Optical properties of rare earth (Ce) and transition metal (Ti) doped ZrO ₂ phosphors	U Kurrey, N Brahme, DP Bisen	IOP Conference Series: Materials Science and Engineering	2021
2.	Generation of cold white light by using energy transfer process in single phase Ce ³⁺ /Tb ³⁺ co-doped CaSrAl ₂ SiO ₇ phosphor	S Sharma, N Brahme, DP Bisen, P Dewangan, R Gupta	Optics & Laser Technology	2021
3.	Study of Photoluminescence, Thermoluminescence, and Afterglow properties of Dy ³⁺ doped Ba ₂ ZnSi ₂ O ₇ phosphor	Y Patle, N Brahme, DP Bisen, T Richhariya, E Chandrawanshi	Optik	2021
4.	Studies on structural properties, luminescence behavior and zeta potential of Dy ³⁺ doped alkaline earth ortho-silicate phosphors	GR Banjare, DP Bisen, N Brahme, C Belodhiya	Materials Science and Engineering: B	2021
5.	Synthesis and concentration dependent luminescent characterization of BaMgSiO ₄ : Eu ³⁺ phosphor	B Verma, RN Baghel, DP Bisen, N Brahme, A Khare	Journal of Alloys and Compounds	2020
6.	Investigation of structural and thermal response of Sm ³⁺ doped Sr ₃ MgSi ₂ O ₈ phosphors	P Dewangan, DP Bisen, N Brahme, S Sharma, RK Tamrakar, IP Sahu	Optical and Quantum Electronics	2020
7.	Photoluminescence and comparative thermoluminescence studies of UV/γ-irradiated Dy ³⁺ doped bismuth silicate phosphor	E Chandrawanshi, DP Bisen, N Brahme, G Banjare, T Richhariya, Y Patle	Journal of Materials Science: Materials in Electronics	2020
8.	A comparative photoluminescence and Judd–Ofelt study on alumino silicate	T Richhariya, N Brahme, DP Bisen, A	Journal of Materials Science: Materials in	2020

	phosphors	Choubey, Y Patle, ...	Electronics	
9.	Investigation of structural and optical properties of gadolinium modified barium zirconium titanate ceramic	G Nag Bhargavi, T Badapanda, A Khare, PK Ray, N Brahme	Phase Transitions	2020
10.	Influence of Dy ³⁺ concentration on spectroscopic behaviour of Sr ₃ MgSi ₂ O ₈ : Dy ³⁺ phosphors	P Dewangan, DP Bisen, N Brahme, S Sharma, RK Tamrakar, IP Sahu, ...	Journal of Alloys and Compounds	2020
11.	Oxygen vacancy related conduction behavior in BaZr _{0.05} Ti _{0.95} O ₃ ceramic	GN Bhargavi, T Badapanda, A Khare, MS Anwar, N Brahme	IOP Conference Series: Materials Science and Engineering	2020
12.	Synthesis and luminescence behavior of Ba ₂ SiO ₄ : Dy ³⁺ phosphors in presence of charge compensator ions	GR Banjare, DP Bisen, N Brahme, C Belodhiya, AK Upadhyay	IOP Conference Series: Materials Science and Engineering	2020
13.	Luminescent characterization of CaMgSiO ₄ : Dy ³⁺ phosphor for white light emitting diodes	BR Verma, RN Baghel, DP Bisen, N Brahme, A Khare	IOP Conference Series: Materials Science and Engineering	2020
14.	A study on the luminescence properties of gamma-ray-irradiated white light emitting Ca ₂ Al ₂ SiO ₇ : Dy ³⁺ phosphors fabricated using a combustion-assisted method	G Tiwari, N Brahme, R Sharma, DP Bisen, SK Sao, SJ Dhoble	RSC ADVANCES	2020
15.	RETRACTION Structural characterization and optical properties of Ca ₂ MgSi ₂ O ₇ : Eu ²⁺ , Dy ³⁺ phosphor by solid-state reaction method	IP Sahu, DP Bisen, N Brahme	LUMINESCENCE	2020
16.	Thermoluminescence studies of Dy ³⁺ -doped calcium barium orthosilicate codoped with Li ⁺ ion	GR Banjare, DP Bisen, N Brahme, C Belodhiya, P Dewangan, ...	Journal of Thermal Analysis and Calorimetry	2020
17.	Correction and removal of expression	G Tiwari, N Brahme, R	RSC Advances	2020

	of concern: A study on the luminescence properties of gamma-ray-irradiated white light emitting Ca ₂ Al ₂ SiO ₇ : Dy ³⁺ phosphors fabricated using ...	Sharma, DP Bisen, SK Sao, SJ Dhoble		
18.	Structural characterization and effects of Dy concentration on luminescent properties of BaMgSiO ₄ phosphors	B Verma, RN Baghel, DP Bisen, N Brahme, A Khare	Journal of Alloys and Compounds	2019
19.	Luminescence properties of near-UV excitable yellow-orange light emitting warm CaSrAl ₂ SiO ₇ : Sm ³⁺ phosphors	S Sharma, N Brahme, DP Bisen, P Dewangan	Journal of Rare Earths	2019
20.	Structural characterization and luminescence properties of Dy ³⁺ doped Ca ₃ MgSi ₂ O ₈ phosphors	P Dewangan, DP Bisen, N Brahme, S Sharma	Journal of Alloys and Compounds	2019
21.	Thermoluminescence glow curve for UV induced Sr ₃ MgSi ₂ O ₈ phosphor with its structural characterization	P Dewangan, DP Bisen, N Brahme, S Sharma, RK Tamrakar, IP Sahu	Journal of Materials Science: Materials in Electronics	2019
22.	Cool white light emission from Dy ³⁺ activated alkaline alumino silicate phosphors	S Sharma, N Brahme, DP Bisen, P Dewangan	Optics express	2018
23.	Growth and synthesis of Sr ₃ MgSi ₂ O ₈ : Dy ³⁺ nanorod arrays by a solid state reaction method	P Dewangan, DP Bisen, N Brahme, RK Tamrakar, S Sharma, K Upadhyay	Optical and Quantum Electronics	2018
24.	Analysis of temperature and frequency dependent dielectric properties, dynamic hysteresis loop and thermal energy conversion in BaZr _{0.05} Ti _{0.95} O ₃ ceramic	GN Bhargavi, A Khare, T Badapanda, MS Anwar, N Brahme	Journal of Materials Science: Materials in Electronics	2018
25.	Luminescence Properties of BaAl ₂ O ₄ : Eu ²⁺ Phosphors	M Ziyaiddin, N Brahme, AK Shrivastava	Luminescence	2018

26.	Studies on thermoluminescence properties of alkaline earth silicate phosphors	P Dewangan, DP Bisen, N Brahme, RK Tamrakar, K Upadhyay, S Sharma,	Journal of Alloys and Compounds	2018
27.	Influence of Eu doping on the structural, electrical and optical behavior of Barium Zirconium Titanate ceramic	GN Bhargavi, A Khare, T Badapanda, PK Ray, N Brahme	Ceramics International	2018
28.	Study on photoluminescence and thermoluminescence properties of UV-irradiated CaSrAl ₂ SiO ₇ :Ce ³⁺ phosphors	S Sharma, N Brahme, DP Bisen, P Dewangan, S Tigga, G Tiwari, A Khare	Journal of Materials Science: Materials in Electronics	2018
29.	Electrical characterizations of BaZrTiO perovskite ceramic by impedance spectroscopy, electric modulus and conductivity.	G Bhargavi, A Khare, T Badapanda, M Anwar, N Brahme	Journal of Materials Science: Materials in Electronics	2017
30.	Electrical characterizations of BaZr _{0.05} Ti _{0.95} O ₃ perovskite ceramic by impedance spectroscopy, electric modulus and conductivity 28 (22), 16956-16964	GN Bhargavi, A Khare, T Badapanda, MS Anwar, N Brahme	Journal of Materials Science: Materials in Electronics	2017
31.	Retraction notice to "Luminescence enhancement of bluish-green Sr ₂ Al ₂ SiO ₇ :Eu ²⁺ phosphor by dysprosium co-doping"	IP Sahu, DP Bisen, N Brahme, RK Tamrakar	Journal of Luminescence	2017
32.	INVESTIGATION OF THERMOLUMINESCENCE CHARACTERISTICS OF Y ₂ O ₃ :Er ³⁺ NANOPHOSPHORS 173 (4), 293-301	M Kaur, DP Bisen, N Brahme, P Singh	Radiation protection dosimetry	2017
33.	Photoluminescence and mechanoluminescence investigation of bluish-green afterglow SrMgAl ₁₀ O ₁₇ :Ce ³⁺ phosphor	S Tigga, N Brahme, DP Bisen	Journal of Materials Science: Materials in Electronics	2017

34.	Fracto-mechanoluminescence and thermoluminescence properties of orange-red emitting Eu ³⁺ doped Ca ₂ Al ₂ SiO ₇ phosphors	G Tiwari, N Brahme, R Sharma, DP Bisen, SK Sao, A Khare	Journal of Luminescence	2017
35.	Estimation of kinetic parameters from thermoluminescence glow curves of pure and Eu ³⁺ doped barium zirconate titanate (BZT)	GN Bhargavi, A Khare, N Brahme	Optik	2017
36.	Mechanoluminescence, thermoluminescence and photoluminescence studies of UV/ γ -irradiated Ba ₂ MgSi ₂ O ₇ : Dy ³⁺ phosphors	SK Sao, N Brahme, DP Bisen, G Tiwari, SJ Dhoble	Journal of Luminescence	2016
37.	Luminescence properties of dysprosium doped di-calcium di-aluminium silicate phosphors 58, 234-242	G Tiwari, N Brahme, R Sharma, DP Bisen, SK Sao, S Tigga	Optical Materials	2016
38.	Luminescent properties of R ^{sup+^} doped Sr ^{sub 2^} MgSi ^{sub 2^} O ^{sub 7^} : Eu ^{sup 3+^} (R ^{sup+^} = Li ^{sup+^} , Na ^{sup+^} and K ^{sup+^}) orange-red emitting phosphors	IP Sahu, DP Bisen, N Brahme, RK Tamrakar, G Banjare, P Dewangan	Journal of Materials Science. Materials in Electronics	2016
39.	Fracto-mechanoluminescence and thermoluminescence properties of UV and γ - irradiated Ca ₂ AlSi ₂ O ₇ : Ce ³⁺ phosphor Geeta Luminescence:	GT Nameeta Brahme, R. Sharma, D. P. Bisen, Sanjay Kumar Sao and Manisha Singh	The Journal of Biological Luminescence: The Journal of Biological and Chemical Luminescence	2016
40.	Studies on the luminescence properties of the gamma-ray-irradiated white light emitting Ca ₂ Al ₂ SiO ₇ : Dy ³⁺ phosphors by combustion-assisted method	GT Nameeta Brahme, Ravi Sharma, D. P. Bisen, Sanjay Kumar sao, S.J. Dhoble	RSC Advances	2016
41.	Fracto-mechanoluminescence and thermoluminescence properties of UV and γ -irradiated Ca ₂ Al ₂ SiO ₇ :Ce ³⁺ phosphor	G Tiwari, N Brahme, R Sharma, DP Bisen, SK Sao, M Singh	Luminescence	2016

42.	Photoluminescence properties of rare-earth-doped (Er ³⁺ , Yb ³⁺) Y ₂ O ₃ nanophosphors by a combustion synthesis method	M Kaur, DP Bisen, N Brahme, P Singh, IP Sahu	Luminescence: The Journal of Biological and Chemical Luminescence	2016
43.	Generation of White light from Dysprosium-Doped Strontium Aluminate Phosphor by a Solid-State Reaction Method RT	Ishwar Prasad Sahu, D.P.Bisen, Nameeta Brahme	Journal of ELECTRONIC MATERIALS	2016
44.	Effect of capping agent on the particle size of CdSe nanoparticles	NS Ravi Sharma, Nameeta Brahme	Luminescence: The Journal of Biological and Chemical Luminescence	2016
45.	Luminescence behavior of europium activated strontium aluminate phosphors by solid state reaction method	IP Sahu, DP Bisen, N Brahme, RK Tamrakar	Journal of Materials Science: Materials in Electronics	2016
46.	Effect of gamma irradiation on thermoluminescence and fracto-mechanoluminescence properties of SrMgAl ₁₀ O ₁₇ : Eu ²⁺ phosphor	S Tigga, N Brahme, DP Bisen	Optical Materials	2016
47.	Structural characterization and thermoluminescence studies of UV irradiated and Eu ³⁺ activated BaZr _{0.25} Ti _{0.75} O ₃ powders	AN Bhargavi, A Khare, N Brahme	Materials Science in Semiconductor Processing	2016
48.	Luminescent properties of R ⁺ doped Sr ₂ MgSi ₂ O ₇ : Eu ³⁺ (R ⁺ = Li ⁺ , Na ⁺ and K ⁺) orange-red emitting phosphors	IP Sahu, DP Bisen, N Brahme, RK Tamrakar, G Banjare, P Dewangan	Journal of Materials Science: Materials in Electronics	2016
49.	Investigation of Thermoluminescence characteristics of Y ₂ O ₃ nanophosphors	MK D. P. Bisen, N. Brahme, Prabhjot Singh	Radiation Protection Dosimetry	2016
50.	Enhanced long-persistence of Ca ₂ Al ₂ SiO ₇ : Ce ³⁺ phosphors for mechanoluminescence and thermoluminescence dosimetry GT	Nameeta Brahme, R. Sharma, D. P. Bisen, Sanjay Kumar Sao, U. Kurrey	Journal of Material Science: Material in Electronics	2016

51.	Investigations on luminescence behaviour of Ce-activated BaMgAl ₁₀ O ₁₇ phosphor	ST Nameeta Brahme, D. P. Bisen	Luminescence: The Journal of Biological and Chemical Luminescence	2016
52.	Ca ₂ Al ₂ SiO ₇ :Ce ³⁺ phosphors for mechanoluminescence dosimetry GT	Nameeta Brahme, Ravi Sharma, D. P. Bisen, Sanjay Kumar sao, I.P.Sahu	Luminescence: The Journal of Biological and Chemical Luminescence	2016
53.	Studies on the luminescence behavior of SrCaMgSi ₂ O ₇ : Eu ³⁺ phosphor by solid state reaction method	IP Sahu, DP Bisen, N Brahme, RK Tamrakar	Journal of Materials Science: Materials in Electronics	2016
54.	Structural characterization of Er ³⁺ , Yb ³⁺ -doped Gd ₂ O ₃ phosphor, synthesized using the solid-state reaction method, and its luminescence behavior	RK Tamrakar, DP Bisen, N Brahme	Luminescence: The Journal of Biological and Chemical Luminescence	2016
55.	Photoluminescence and thermoluminescence properties of Eu ²⁺ -doped and Eu ²⁺ , Dy ³⁺ -co-doped Ba ₂ MgSi ₂ O ₇ phosphors SKS	Nameeta Brahme, D. P. Bisen, Geetanjali Tiwari	Luminescence: The Journal of Biological and Chemical Luminescence	2016
56.	study on the luminescence properties of gamma-ray-irradiated white light emitting Ca ₂ Al ₂ SiO ₇ : Dy ³⁺ phosphors fabricated using a combustion-assisted method	G Tiwari, N Brahme, R Sharma, DP Bisen, SK Sao, SJ Dhoble	RSC advances	2016
57.	Synthesis, characterization and photoluminescence properties of SrMgAl ₁₀ O ₁₇ : Eu ²⁺ phosphor	S Tigga, N Brahme, DP Bisen	Proceedings of the twenty second national conference on luminescence and its ...	2016
58.	Possibility of fracto-mechanoluminescence dosimetry in g-irradiated SrAl ₂ O ₄ : Eu, Dy phosphors	AK Choubey, N Brahme, DP Bisen, SJ Dhoble	Proceedings of the twenty second national conference on luminescence and its ...	2016
59.	Development of photo-luminescent	D Pandey, N Brahme,	International Journal of	2016

	Ca ₂ MgSi ₂ O ₇ : Dy ³⁺ phosphor	R Sharma, A Pandey	Applied Engineering Research	
60.	Impulsive excitation of mechanoluminescence in europium activated strontium ortho-silicate phosphor	IP Sahu, DP Bisen, N Brahme	Journal of Materials Science: Materials in Electronics	2016
61.	Enhanced luminescence performance of Sr ₂ MgSi ₂ O ₇ :Eu ²⁺ blue long persistence phosphor by co-doping with Ce ³⁺ ions	IP Sahu, DP Bisen, N Brahme, RK Tamrakar	Journal of Materials Science: Materials in Electronics	2016
62.	Photoluminescence and thermoluminescence studies of CaAl ₂ O ₄ : Dy ³⁺ phosphor	Shalinta Tigga, Nameeta Brahme, DPB, Mohammad Ziyauddin	Luminescence: The Journal of Biological and Chemical Luminescence	2016

Prof. D. P. Bisen

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2.	Generation of cold white light by using energy transfer process in single phase Ce ³⁺ /Tb ³⁺ co-doped CaSrAl ₂ SiO ₇ phosphor	S Sharma, N Brahme, DP Bisen, P Dewangan, R Gupta	Optics & Laser Technology	2021
3.	Study of Photoluminescence, Thermoluminescence, and Afterglow properties of Dy ³⁺ doped Ba ₂ ZnSi ₂ O ₇ phosphor	Y Patle, N Brahme, DP Bisen, T Richhariya, E Chandrawanshi,	Optik	2021
4.	Studies on structural properties, luminescence behavior and zeta potential of Dy ³⁺ doped alkaline earth ortho-silicate phosphors	GR Banjare, DP Bisen, N Brahme, C Belodhiya	Materials Science and Engineering: B	2021
5.	Synthesis and concentration dependent luminescent characterization of BaMgSiO ₄ :	B Verma, RN Baghel, DP Bisen, N Brahme, A Khare	Journal of Alloys and Compounds	2020

	Eu ³⁺ phosphor			
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8.	A comparative photoluminescence and Judd–Ofelt study on aluminosilicate phosphors	T Richhariya, N Brahme, DP Bisen, A Choubey, Y Patle, ...	Journal of Materials Science: Materials in Electronics	2020
9.	Investigation of structural and optical properties of gadolinium modified barium zirconium titanate ceramic	G Nag Bhargavi, T Badapanda, A Khare, PK Ray, N Brahme	Phase Transitions	2020
10.	Influence of Dy ³⁺ concentration on spectroscopic behaviour of Sr ₃ MgSi ₂ O ₈ : Dy ³⁺ phosphors	P Dewangan, DP Bisen, N Brahme, S Sharma, RK Tamrakar, IP Sahu,	Journal of Alloys and Compounds	2020
11.	Oxygen vacancy related conduction behavior in BaZr _{0.05} Ti _{0.95} O ₃ ceramic	GN Bhargavi, T Badapanda, A Khare, MS Anwar, N Brahme	IOP Conference Series: Materials Science and Engineering	2020
12.	Synthesis and luminescence behavior of Ba ₂ SiO ₄ : Dy ³⁺ phosphors in presence of charge compensator ions	GR Banjare, DP Bisen, N Brahme, C Belodhiya, AK Upadhyay	IOP Conference Series: Materials Science and Engineering	2020
13.	Luminescent characterization of CaMgSiO ₄ : Dy ³⁺ phosphor for white light emitting diodes	BR Verma, RN Baghel, DP Bisen, N Brahme, A Khare	IOP Conference Series: Materials Science and Engineering	2020
14.	A study on the luminescence properties of gamma-ray-irradiated white light emitting Ca ₂ Al ₂ SiO ₇ : Dy ³⁺ phosphors fabricated using a combustion-assisted method	G Tiwari, N Brahme, R Sharma, DP Bisen, SK Sao, SJ Dhoble	RSC ADVANCES	2020

15.	RETRACTION Structural characterization and optical properties of Ca ₂ MgSi ₂ O ₇ : Eu ²⁺ , Dy ³⁺ phosphor by solid-state reaction method	IP Sahu, DP Bisen, N Brahme	LUMINESCENCE	2020
16.	Thermoluminescence studies of Dy ³⁺ -doped calcium barium orthosilicate codoped with Li ⁺ ion	GR Banjare, DP Bisen, N Brahme, C Belodhiya, P Dewangan, ...	Journal of Thermal Analysis and Calorimetry	2020
17.	Correction and removal of expression of concern: A study on the luminescence properties of gamma-ray-irradiated white light emitting Ca ₂ Al ₂ SiO ₇ : Dy ³⁺ phosphors fabricated using ...	G Tiwari, N Brahme, R Sharma, DP Bisen, SK Sao, SJ Dhoble	RSC Advances	2020
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19.	Luminescence properties of near-UV excitable yellow-orange light emitting warm CaSrAl ₂ SiO ₇ : Sm ³⁺ phosphors	S Sharma, N Brahme, DP Bisen, P Dewangan	Journal of Rare Earths	2019
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23.	Growth and synthesis of Sr ₃ MgSi ₂ O ₈ : Dy ³⁺ nanorod arrays by a solid state reaction method	P Dewangan, DP Bisen, N Brahme, RK Tamrakar, S Sharma, K Upadhyay	Optical and Quantum Electronics	2018
24.	Analysis of temperature and	GN Bhargavi, A Khare,	Journal of Materials	2018

	frequency dependent dielectric properties, dynamic hysteresis loop and thermal energy conversion in BaZr _{0.05} Ti _{0.95} O ₃ ceramic	T Badapanda, MS Anwar, N Brahme	Science: Materials in Electronics	
25.	Luminescence Properties of BaAl ₂ O ₄ : Eu ²⁺ Phosphors	M Ziyauddin, N Brahme, AK Shrivastava	Luminescence	2018
26.	Studies on thermoluminescence properties of alkaline earth silicate phosphors	P Dewangan, DP Bisen, N Brahme, RK Tamrakar, K Upadhyay, S Sharma,	Journal of Alloys and Compounds	2018
27.	Influence of Eu doping on the structural, electrical and optical behavior of Barium Zirconium Titanate ceramic	GN Bhargavi, A Khare, T Badapanda, PK Ray, N Brahme	Ceramics International 44 (2), 1817-1825	2018
28.	Study on photoluminescence and thermoluminescence properties of UV-irradiated CaSrAl ₂ SiO ₇ : Ce ³⁺ phosphors	S Sharma, N Brahme, DP Bisen, P Dewangan, S Tigga, G Tiwari, A Khare	Journal of Materials Science: Materials in Electronics	2018
29.	Electrical characterizations of BaZrTiO perovskite ceramic by impedance spectroscopy, electric modulus and conductivity.	G Bhargavi, A Khare, T Badapanda, M Anwar, N Brahme	Journal of Materials Science: Materials in Electronics	2017
30.	Electrical characterizations of BaZr _{0.05} Ti _{0.95} O ₃ perovskite ceramic by impedance spectroscopy, electric modulus and conductivity	GN Bhargavi, A Khare, T Badapanda, MS Anwar, N Brahme	Journal of Materials Science: Materials in Electronics	2017
31.	Retraction notice to "Luminescence enhancement of bluish-green Sr ₂ Al ₂ SiO ₇ : Eu ²⁺ phosphor by dysprosium co-doping"[J. Lumin 167 (2015) 278-288]	IP Sahu, DP Bisen, N Brahme, RK Tamrakar	Journal of Luminescence	2017
32.	INVESTIGATION OF THERMOLUMINESCENCE CHARACTERISTICS OF Y ₂ O ₃ :Er ³⁺ NANOPHOSPHORS	M Kaur, DP Bisen, N Brahme, P Singh	Radiation protection dosimetry 173 (4), 293-301	2017

33.	Photoluminescence and mechanoluminescence investigation of bluish-green afterglow SrMgAl ₁₀ O ₁₇ :Ce ³⁺ phosphor	S Tigga, N Brahme, DP Bisen	Journal of Materials Science: Materials in Electronics	2017
34.	Fracto-mechanoluminescence and thermoluminescence properties of orange-red emitting Eu ³⁺ doped Ca ₂ Al ₂ SiO ₇ phosphors	G Tiwari, N Brahme, R Sharma, DP Bisen, SK Sao, A Khare	Journal of Luminescence	2017
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39.	Fracto-mechanoluminescence and thermoluminescence properties of UV and γ - irradiated Ca ₂ AlSi ₂ O ₇ : Ce ³⁺ phosphor Geeta Luminescence: The Journal of Biological	GT Nameeta Brahme, R. Sharma, D. P. Bisen, Sanjay Kumar Sao and Manisha Singh	Luminescence: The Journal of Biological and Chemical Luminescence 31 (3 ...	2016
40.	Studies on the luminescence properties of the gamma-ray-irradiated white light emitting Ca ₂ Al ₂ SiO ₇ : Dy ³⁺ phosphors by combustion-assisted method	GT Nameeta Brahme, Ravi Sharma, D. P. Bisen, Sanjay Kumar sao, S.J. Dhoble	RSC Advances	2016
41.	Fracto-mechanoluminescence and	G Tiwari, N Brahme, R	Luminescence 31 (3),	2016

	thermoluminescence properties of UV and γ -irradiated $\text{Ca}_2\text{Al}_2\text{SiO}_7:\text{Ce}^{3+}$ phosphor	Sharma, DP Bisen, SK Sao, M Singh	793-801	
42.	Photoluminescence properties of rare-earth-doped (Er^{3+} , Yb^{3+}) Y_2O_3 nanophosphors by a combustion synthesis method	M Kaur, DP Bisen, N Brahme, P Singh, IP Sahu	Luminescence: The Journal of Biological and Chemical Luminescence 31 (3 ...	2016
43.	Generation of White light from Dysprosium-Doped Strontium Aluminate Phosphor by a Solid-State Reaction Method	RT Ishwar Prasad Sahu, D.P.Bisen, Nameeta Brahme	Journal of ELECTRONIC MATERIALS 45 (4), 2222-2232	2016
44.	Effect of capping agent on the particle size of CdSe nanoparticles	NS Ravi Sharma, Nameeta Brahme	Luminescence: The Journal of Biological and Chemical Luminescence	2016
45.	Luminescence behavior of europium activated strontium aluminate phosphors by solid state reaction method	IP Sahu, DP Bisen, N Brahme, RK Tamrakar	Journal of Materials Science: Materials in Electronics 27, 3443-3455	2016
46.	Effect of gamma irradiation on thermoluminescence and fracto-mechanoluminescence properties of $\text{SrMgAl}_{10}\text{O}_{17}:\text{Eu}^{2+}$ phosphor	S Tigga, N Brahme, DP Bisen	Optical Materials 53, 109-115	2016
47.	Structural characterization and thermoluminescence studies of UV irradiated and Eu^{3+} activated $\text{BaZr}_{0.25}\text{Ti}_{0.75}\text{O}_3$ powders	AN Bhargavi, A Khare, N Brahme	Materials Science in Semiconductor Processing 44, 38-47	2016
48.	Luminescent properties of R+ doped $\text{Sr}_2\text{MgSi}_2\text{O}_7:\text{Eu}^{3+}$ ($\text{R}^{2+} = \text{Li}^+, \text{Na}^+$ and K^+) orange-red emitting phosphors	IP Sahu, DP Bisen, N Brahme, RK Tamrakar, G Banjare, P Dewangan	Journal of Materials Science: Materials in Electronics, 1-14	2016
49.	Investigation of Thermoluminescence characteristics of Y_2O_3 nanophosphors	MK D. P. Bisen, N. Brahme, Prabhjot Singh	Radiation Protection Dosimetry, 1-9	2016
50.	Enhanced long-persistence of $\text{Ca}_2\text{Al}_2\text{SiO}_7:\text{Ce}^{3+}$ phosphors for mechanoluminescence and thermoluminescence dosimetry	GT Nameeta Brahme, R. Sharma, D. P. Bisen, Sanjay Kumar Sao, U. Kurrey	Journal of Material Science: Material in Electronics	2016

51.	Investigations on luminescence behaviour of Ce-activated BaMgAl10O17 phosphor	ST Nameeta Brahme, D. P. Bisen	Luminescence: The Journal of Biological and Chemical Luminescence	2016
52.	Ca ₂ Al ₂ SiO ₇ :Ce ³⁺ phosphors for mechanoluminescence dosimetry	GT Nameeta Brahme, Ravi Sharma, D. P. Bisen, Sanjay Kumar Sao, I.P.Sahu	Luminescence: The Journal of Biological and Chemical Luminescence	2016
53.	Studies on the luminescence behavior of SrCaMgSi ₂ O ₇ : Eu ³⁺ phosphor by solid state reaction method	IP Sahu, DP Bisen, N Brahme, RK Tamrakar	Journal of Materials Science: Materials in Electronics 27 (2), 18	2016
54.	Structural characterization of Er ³⁺ , Yb ³⁺ -doped Gd ₂ O ₃ phosphor, synthesized using the solid-state reaction method, and its luminescence behavior	RK Tamrakar, DP Bisen, N Brahme	Luminescence: The Journal of Biological and Chemical Luminescence	2016
55.	Photoluminescence and thermoluminescence properties of Eu ²⁺ -doped and Eu ²⁺ , Dy ³⁺ -co-doped Ba ₂ MgSi ₂ O ₇ phosphors	SKS Nameeta Brahme, D. P. Bisen, Geetanjali Tiwari	Luminescence: The Journal of Biological and Chemical Luminescence	2016
56.	study on the luminescence properties of gamma-ray-irradiated white light emitting Ca ₂ Al ₂ SiO ₇ : Dy ³⁺ phosphors fabricated using a combustion-assisted method	G Tiwari, N Brahme, R Sharma, DP Bisen, SK Sao, SJ Dhoble	RSC advances	2016
57.	Synthesis, characterization and photoluminescence properties of SrMgAl ₁₀ O ₁₇ : Eu ²⁺ phosphor	S Tigga, N Brahme, DP Bisen	Proceedings of the twenty second national conference on luminescence and its ...	2016
58.	Possibility of fracto-mechanoluminescence dosimetry in g-irradiated SrAl ₂ O ₄ : Eu, Dy phosphors	AK Choubey, N Brahme, DP Bisen, SJ Dhoble	Proceedings of the twenty second national conference on luminescence and its ...	2016
59.	Development of photo-luminescent Ca ₂ MgSi ₂ O ₇ : Dy ³⁺ phosphor	D Pandey, N Brahme, R Sharma, A Pandey	International Journal of Applied Engineering Research	2016
60.	Impulsive excitation of	IP Sahu, DP Bisen, N	Journal of Materials	2016

	mechanoluminescence in europium activated strontium ortho-silicate phosphor	Brahme	Science: Materials in Electronics	
61.	Enhanced luminescence performance of $\text{Sr}_2\text{MgSi}_2\text{O}_7:\text{Eu}^{2+}$ blue long persistence phosphor by co-doping with Ce^{3+} ions	IP Sahu, DP Bisen, N Brahme, RK Tamrakar	Journal of Materials Science: Materials in Electronics	2016
62.	Photoluminescence and thermoluminescence studies of $\text{CaAl}_2\text{O}_4:\text{Dy}^{3+}$ phosphor	DPB Mohammad Ziyuddin, Shalinta Tigga, Nameeta Brahme	Luminescence: The Journal of Biological and Chemical Luminescence	2016

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S. No.	Title	Authors Name	Journal Names	Year
1.	Photometric study of young open clusters IC 1442, King 21, and Trumpler 7	Jayanand Maurya Y.C. Joshi, A.S. Gour	J. MNRAS	2020
2.	Gaia 20 cae: A newly discovered episodically arresting young star	Arpan Ghosh, Saurabh Sharma, Joe P. Ninan, Devendra K. Ojha, Bhuwan C. Bhatt, Shubham Kanodia, Suvrath Mahadevan, Gudmundur Stefansson, R. K. Yadav, A. S. Gour,	J. MNRAS	2021
3	Mechanoluminescence of $\text{Sr}_2\text{Al}_2\text{SiO}_7:\text{Eu},\text{Dy}$ phosphor composite film	A Jadhaw, AS Gour, P Jha	AIP Conference Proceedings 2104 (1), 020022	2019
4	Cost effective synthesis to promote effective photoluminescent properties of rare earth doped MgO nanophosphor	G Sahu, AS Gour, RK Chandrakar, S Majumder	Optik 164, 711-720	2018
5	Thermoluminescence properties of Eu-doped and	A Jadhaw, VD Sonwane, AS Gour, P Jha	Luminescence 32 (7), 1349-1353	2017

	Eu/Dy-codoped Sr ₂ Al ₂ SiO ₇ phosphors			
6	Photoluminescence, Synthesis, Characterization of MgO Nanophosphors Influenced by Dy ³⁺ Ions Concentrations	G Sahu, AS Gour	Journal of Ravishankar University 30 (1), 130-138	2017
7	Thermoluminescence and optical properties of Dy ³⁺ - doped MgO nanoparticles, prepared by solution combustion synthesis method	G Sahu, AS Gour, RK Chandrakar	Journal of Pure Applied and Industrial Physics 7 (4), 115-127	2017
	Laser shock wave-induced visible mechanoluminescence from semi-transparent organic crystals	VD Sonwane, AS Gour, P Jha	Luminescence 32 (1), 100- 103	2017
	Laser power dependence of mechanoluminescence in metals	VD Sonwane, AS Gour, P Jha	Luminescence 31 (8), 1422-1426	2016

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S. No.	Title	Authors Name	Journal Names	Year
1.	Ground-based photometric survey to search for the pulsational variability in Bp, Ap, and Am stars	D Nhlapo, S Joshi, B Letarte, NK Chakradhari, SK Tiwari	Bulletin de la Société Royale des Sciences de Liège 88 248-255	2019
2.	Optical and UV studies of type Ia supernovae SN 2009ig and SN 2012cg	NK Chakradhari, DK Sahu, GC Anupama	Monthly Notices of the Royal Astronomical Society	2019
3.	Observational properties of a Type Ib supernova MASTER OT J120451. 50+ 265946.6 in NGC 4080	M Singh, K Misra, DK Sahu, R Dastidar, A Gangopadhyay, S Srivastav, ..	Monthly Notices of the Royal Astronomical Society 485 (4), 5438-5452	2019
4.	Broad-line Type Ic supernova SN 2014ad	DK Sahu, GC Anupama, NK Chakradhari, S Srivastav, M Tanaka, ...	Monthly Notices of the Royal Astronomical Society 475 (2), 2591-2604	2018

5.	Highly reddened Type Ia supernova SN 2004ab: another case of anomalous extinction	NK Chakradhari, DK Sahu, GC Anupama, TP Prabhu	Monthly Notices of the Royal Astronomical Society 474 (2), 2502-2513	2018
6.	Exploring the optical behaviour of a Type Iax supernova SN 2014dt	M Singh, K Misra, DK Sahu, R Dastidar, A Gangopadhyay, S Bose,	Monthly Notices of the Royal Astronomical Society 474 (2), 2551-2563	2018
7.	A Peculiar Subclass of Type Ia Supernovae aka Type Iax	M Singh, K Misra, DK Sahu, R Dastidar, A Gangopadhyay, S Bose,	Bulletin de la Société Royale des Sciences de Liège	2018
8.	The Nainital Cape Survey Project: A Search for Pulsation in Chemically Peculiar Stars	NK Chakradhari, S Joshi	Bulletin de la Société Royale des Sciences de Liège	2018
9.	The hot γ Doradus and Maia stars	LA Balona, CA Engelbrecht, YC Joshi, S Joshi, K Sharma, E Semenko, ...	Monthly Notices of the Royal Astronomical Society 460 (2), 1318-1327	2016
10.	The Nainital-Cape Survey-IV. A search for pulsational variability in 108 chemically peculiar stars	S Joshi, P Martinez, S Chowdhury, NK Chakradhari, YC Joshi, ...	Astronomy & Astrophysics 590, A116	2016
11.	VizieR Online Data Catalog: Nainital-Cape Survey. IV.(Joshi+, 2016)	S Joshi, P Martinez, S Chowdhury, NK Chakradhari, YC Joshi,	VizieR Online Data Catalog, J/A+ A/590/A116	2016
12.	The Nainital-Cape Survey-IV	S Joshi, P Martinez, S Chowdhury, NK Chakradhari, YC Joshi,	arXiv preprint arXiv:1603.03517	2016
13.	Transient Classification Report for 2016-01-09	DK Sahu, GC Anupama, S Srivastav, NK Chakradhari	Transient Name Server Classification Report 2016, 1	2016
14.	Classification of AT 2016c in NGC 5247 as a type II supernova	DK Sahu, GC Anupama, S Srivastav, NK Chakradhari	The Astronomer's Telegram 8514, 1	2016

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S. No.	Title	Authors Name	Journal Names	Year
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1.	Flexible printed paper electrode with silver nano-ink for electrochemical applications	T Kant, K Shrivastava, V Ganesan, YK Mahipal, R Devi, MK Deb, R Shankar	Microchemical Journal 155, 104687	2020
2.	Iota-carrageenan-based polymer electrolyte: impact on ionic conductivity with incorporation of AmNTFSI ionic liquid for supercapacitor	NK Farhana, FS Omar, R Shanti, YK Mahipal, S Ramesh, K Ramesh	Ionics 25 (7), 3321-3329	2019
3.	Study of electrical and electrochemical behavior on copper ion conducting nano-composite polymer electrolyte	TB Sahu, M Sahu, S Karan, YK Mahipal, DK Sahu, RC Agrawal	Ionics 24 (9), 2885-2892	2018
4.	Influence of acrylic acid on ethylene carbonate/dimethyl carbonate based liquid electrolyte and its supercapacitor application	NS Nadiyah, FS Omar, A Numan, YK Mahipal, S Ramesh, K Ramesh	International Journal of Hydrogen Energy 42 (52), 30683-30690	2017
5.	Characterization of ion transport property in hot-press cast solid polymer electrolyte (SPE) films:[PEO: Zn (CF ₃ SO ₃) ₂]	S Karan, TB Sahu, M Sahu, YK Mahipal, RC Agrawal	Ionics 23 (10), 2721-2726	2017
6.	Synthesis and characterization of ion transport behavior in Cu ²⁺ -conducting nano composite polymer electrolyte membranes	TB Sahu, M Sahu, S Karan, YK Mahipal, DK Sahu, RC Agrawal	Journal of Physics D: Applied Physics 50 (27), 275501	2017
7.	Conductivity enhancement in K ⁺ -ion conducting dry Solid Polymer Electrolyte (SPE):[PEO: KNO ₃]: A consequence of KI dispersal and nano-ionic effect	P Kesharwani, DK Sahu, YK Mahipal, RC Agrawal	Materials Chemistry and Physics 193, 524-531	2017
8.	An approach to solid-state electrical double layer capacitors fabricated with graphene oxide-doped, ionic liquid-based solid copolymer electrolytes	NFA Fattah, HM Ng, YK Mahipal, A Numan, S Ramesh, K Ramesh	Materials 9 (6), 450	2016
9.	Materials and electrical property studies on polymer electrolyte membranes incorporating with room temperature ionic liquid	YK Mahipal, RC Agrawal, Y Hanisah, N Arshed, S Ramesh	IJTAE 6, 18-25	2016

10.	Efficiency of supercapacitor using EC/DMC-based liquid electrolytes with methyl methacrylate (MMA) monomer	NS Nadiah, YK Mahipal, A Numan, S Ramesh, K Ramesh	Ionics 22 (1), 107-114	2016
11.	Enhanced electrochemical performance of cobalt oxide nanocube intercalated reduced graphene oxide for supercapacitor application	A Numan, N Duraisamy, FS Omar, YK Mahipal, K Ramesh, S Ramesh	RSC advances 6 (41), 34894-34902	2016

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S. No.	Title	Authors Name	Journal Names	Year
1.	Studies on structural properties, luminescence behavior and zeta potential of Dy ³⁺ doped alkaline earth ortho-silicate phosphors	Ram Banjare, G., Bisen, D.P., Brahme, N., Belodhiya, C.	Materials Science and Engineering B: Solid-State Materials for Advanced Technology	2021
2.	Synthesis and luminescence behavior of Ba ₂ SiO ₄ :Dy ³⁺ phosphors in presence of charge compensator ions	Banjare, G.R., Bisen, D.P., Brahme, N., Belodhiya, C., Upadhyay, A.K.	IOP Conference Series: Materials Science and Engineering	2020
3.	Thermoluminescence studies of Dy ³⁺ -doped calcium barium orthosilicate codoped with Li ⁺ ion	Banjare, G.R., Bisen, D.P., Brahme, N., ...Chandrawansi, E., Sahu, I.P.	Journal of Thermal Analysis and Calorimetry	2020