

SoS in Physics & Astrophysics

Pt. Ravishankar Shukla University, Raipur

List of Publication from 2016 to 2023

Prof. Nameeta Brahme

S. No.	Title of Research Paper	Authors	Journal	Citation	Year
1.	Structural, photoluminescence, and thermoluminescence behaviors of Samarium doped CaWO ₄ phosphor	R Paikaray, T Badapanda, H Mohapatra, T Richhariya, N Brahme, ...	Materials Science and Engineering: B 294, 116511		2023
2.	Investigation of photoluminescence, thermoluminescence, and energy transfer mechanism in Ce/Dy co-doped Sr ₂ Al ₂ SiO ₇	T Richhariya, N Brahme, DP Bisen, T Badapanda, K Tiwari, A Jain	Materials Science in Semiconductor Processing 159, 107396	1	2023
3.	Exploration of crystal structure, and luminescence behaviors of Terbium-activated CaWO ₄ phosphor	R Paikaray, T Badapanda, H Mohapatra, T Richhariya, K Tiwari, ...	Journal of Molecular Structure, 135902		2023
4.	Luminescence studies of Sm ³⁺ doped CdB ₄ O ₇ phosphors	K Thakkar, R Sharma, N Brahme, DP Bisen, A Verma, T Richhariya	Journal of Materials Science: Materials in Electronics 34 (14), 1151		2023
5.	Retraction Note to: Investigation of structural, luminescence, and anti-bacterial properties of novel Zn _{1-x} Eu _x Al _{2-y} O ₄ Sr _y phosphor	A Verma, DP Bisen, S Nema, IP Sahu, T Ray, N Brahme, A Verma, ...	Journal of Materials Science: Materials in Electronics 34 (13), 1095		2023
6.	Luminescence investigation of CaY ₂ Al ₄ SiO ₁₂ :Dy ³⁺ phosphor synthesized by sol-gel method	A Verma, R Sharma, DP Bisen, N Brahme, K Thakkar, S Tigga, ...	Luminescence 38 (5), 576-584		2023
7.	Yttrium aluminum garnet based novel and advanced phosphor synthesized by combustion route activated by Dy, Eu, and Tb rare earth metals	A Verma, DP Bisen, N Brahme, IP Sahu, AK Singh	Journal of Materials Science: Materials in Electronics 34 (7), 644	1	2023
8.	Tale of GRB 171010A/SN 2017htp and GRB 171205A/SN 2017iuk: Magnetar origin?	A Kumar, SB Pandey, R Gupta, A Aryan, AK Ror, S Sharma, N Brahme	New Astronomy 97, 101889	2	2022
9.	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 (Retraction of Vol ...	G Tiwari, N Brahme, R Sharma, DP Bisen, SK Sao, SJ Dhoble	RSC ADVANCES 12 (46), 29844-29844		2022
10.	Photoluminescence Property of Erbium-Doped Yttrium Oxide: Doping Concentration and Its Effect	P Singh, M Kaur, N Brahme, DP Bisen, R Umam, VR Panse, A Said, ...	Integrated Ferroelectrics 230 (1), 100-107		2022
11.	Analysis of thermoluminescence glow curve and evaluation of trapping parameters of cerium activated M ₂ Al ₂ SiO ₇ (M= Ca and Sr) phosphor	T Richhariya, N Brahme, DP Bisen, T Badapanda, K Tiwari, ...	Materials Chemistry and Physics 287, 126273	3	2022

	for TLD application				
12.	Investigation of structural, luminescence, and anti-bacterial properties of novel $Zn_{1-x}Eu_xAl_{2-y}O_4Sr_y$ phosphor	A Verma, DP Bisen, S Nema, IP Sahu, T Ray, N Brahme, A Verma, ...	Journal of Materials Science: Materials in Electronics 33 (19), 15858-15878	4	2022
13.	Microstructural, luminescence properties and Judd-Ofelt analysis of Eu^{3+} activated $K_2Zr(PO_4)_2$ phosphor for lighting and display applications	B Verma, RN Baghel, DP Bisen, N Brahme, V Jena	Optical Materials 129, 112459	4	2022
14.	Investigation of structural, photoluminescence, and thermoluminescence properties of Praseodymium doped $CaWO_4$ phosphor	R Paikaray, T Badapanda, H Mohapatra, T Richhariya, SN Tripathy, ...	Materials Today Communications 31, 103802	4	2022
15.	Efficient white light-emitting $Mg_{21}Ca_4Na_4(PO_4)_{18}: Dy^{3+}, Tb^{3+}, Eu^{3+}$ triple-doped glasses: a multipurpose glasses for WLEDs, solar cell efficiency enhancement, and smart ...	TS Dhapodkar, AR Kadam, N Brahme, SJ Dhoble	Materials Today Chemistry 24, 100938	8	2022
16.	Luminescence properties of a novel cyan-blue light emitting Ce^{3+} doped $SrZrSi_2O_7$ phosphor	SK Baghel, N Brahme, DP Bisen, Y Patle, T Richhariya, E Chandrawanshi, ...	Optical Materials 126, 112141	7	2022
17.	The Effectiveness of Sump Dimension Design: A Case Study in Nickel Mining	ER Kapugu, AAIA Adnyano, R Prastowo, A Zamroni, M Kaur, N Brahme	International Journal of Hydrological and Environmental for Sustainability 1 ...	3	2022
18.	Retraction: A study on the luminescence properties of gamma-ray-irradiated white light emitting $Ca_2Al_2SiO_7: Dy^{3+}$ phosphors fabricated using a combustion-assisted method	G Tiwari, N Brahme, R Sharma, DP Bisen, SK Sao, SJ Dhoble	RSC advances 12 (46), 29844-29844		2022
19.	Thermoluminescence studies of $CdB_4O_7: Sm^{3+}$ phosphor	K Thakkar, R Sharma, N Brahme, DP Bisen	Materials Today: Proceedings 66, 622-626		2022
20.	Structural, luminescent properties and Judd-Ofelt analysis of $CaMgSiO_4: Eu^{3+}$ phosphor for solid state lighting	B Verma, RN Baghel, DP Bisen, N Brahme, V Jena	Optical Materials 123, 111787	17	2022
21.	Enhanced thermoluminescence properties of $CaSrAl_2SiO_7: Ce^{3+}, Tb^{3+}$ phosphor	SS Sharma, N Brahme, DP Bisen, P Dewangan, IP Sahu, SG Onkar, ...	Journal of Materials Science: Materials in Electronics 32, 28765-28771		2021
22.	Synthesis and optical characterization of Dy^{3+} doped barium alumino silicate phosphor	T Richhariya, N Brahme, DP Bisen, T Badapanda, A Choubey, Y Patle, ...	Materials Science and Engineering: B 273, 115445	4	2021
23.	Role of the 3.6 m DOT to investigate connections between long-GRBs and core-collapse SNe	A Kumar, SB Pandey, R Gupta, A Aryan, AJ Castro-Tirado, N Brahme	Revista Mexicana de Astronomia y Astrofisica Conference Series 53, 127-133	3	2021
24.	Luminescence properties of blue-emitting Ce^{3+} -doped series of $Ca_2Al_2SiO_7$ and $Sr_2Al_2SiO_7$ phosphors	T Richhariya, N Brahme, DP Bisen, Y Patle, E Chandrawanshi, N Shah	Journal of Materials Science: Materials in Electronics 32, 20793-20803	1	2021
25.	Judd-Ofelt analysis and luminescent characterization of Eu^{3+} activated $Li_2Zr(PO_4)_2$ phosphor	B Verma, RN Baghel, DP Bisen, N Brahme, V Jena	Optical Materials 118, 111196	10	2021

26.	Band Gap Analysis of Ca ₃ MgSi ₂ O ₈ : Dy ³⁺ Nanorod Arrays By A Solid State Reaction Method	P Dewangan, DP Bisen, N Brahme, S Sharma, RK Tamrakar, K Upadhyay			2021
27.	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 1120 (1), 012002	3	2021
28.	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 135, 106682	6	2021
29.	Investigation of structural and conduction mechanism of europium modified BaZr _{0.05} Ti _{0.95} O ₃ ceramic prepared by solid-state reaction method	GN Bhargavi, T Badapanda, A Khare, MS Anwar, N Brahme	Appl. Phys. A. 127, 528	5	2021
30.	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 226, 165896	15	2021
31.	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 263, 114882	12	2021
32.	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 838, 155326	12	2020
33.	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 52, 1-16	2	2020
34.	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 31, 14454-14465	11	2020
35.	A comparative photoluminescence and Judd–Ofelt study on alumino silicate phosphors	T Richhariya, N Brahme, DP Bisen, A Choubey, Y Patle, ...	Journal of Materials Science: Materials in Electronics 31 (16), 13667-13679	11	2020
36.	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 93 (6), 529-536	2	2020
37.	SN 2010kd: Photometric and Spectroscopic Analysis of a Slow-decaying Superluminous Supernova	A Kumar, SB Pandey, R Konyves-Toth, R Staten, J Vinko, JC Wheeler, ...	The Astrophysical Journal 892 (1), 28	17	2020
38.	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 816, 152590	20	2020
39.	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 798 (1), 012006		2020
40.	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 798 (1), 012010	2	2020

41.	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 798 (1), 012009	6	2020
42.	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 (vol 6, pg 49317, 2016)	G Tiwari, N Brahme, R Sharma, DP Bisen, SK Sao, SJ Dhoble	RSC ADVANCES 10 (9), 5196-5201		2020
43.	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 139, 1577-1583	4	2020
44.	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 805, 663-672	27	2019
45.	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 37 (4), 365-373	16	2019
46.	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 777, 423-433	59	2019
47.	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 30, 771-777	7	2019
48.	Cool white light emission from Dy ³⁺ activated alkaline alumino silicate phosphors	S Sharma, N Brahme, DP Bisen, P Dewangan	Optics Express 26 (22), 29495-29508	59	2018
49.	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 50, 1-7	15	2018
50.	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 29, 11439-11448	21	2018
51.	Luminescence Properties of BaAl ₂ O ₄ : Eu ²⁺ Phosphors	M Ziyauddin, N Brahme, AK Shrivastava	Luminescence 5 (04)	1	2018
52.	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 735, 1383-1388	29	2018
53.	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	14	2018
54.	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 29, 1412-1419	12	2018
55.	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 28, 16956-16964	27	2017
56.	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
57.	Photoluminescence and mechanoluminescence investigation of	S Tigga, N Brahme, DP Bisen	Journal of Materials Science:	11	2017

	bluish-green afterglow SrMgAl ₁₀ O ₁₇ :Ce ³⁺ phosphor		Materials in Electronics 28, 4750-4757		
58.	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 183, 89-96	20	2017
59.	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 129, 83-92	3	2017
60.	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 180, 306-314	14	2016
61.	Luminescence properties of dysprosium doped di-calcium di-aluminium silicate phosphors	G Tiwari, N Brahme, R Sharma, DP Bisen, SK Sao, S Tigga	Optical Materials 58, 234-242	28	2016
62.	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 27 (7), 6721		2016
63.	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	24*	2016
64.	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 31 (3), 793-801	17	2016
65.	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 31 (3 ...	10	2016
66.	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	25	2016
67.	Effect of capping agent on the particle size of CdSe nanoparticles	NS Ravi Sharma, Nameeta Brahme	Luminescence: The Journal of Biological and Chemical Luminescence	12*	2016
68.	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	15	2016
69.	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 53, 109-115	10	2016
70.	Structural characterization and	AN Bhargavi, A Khare, N	Materials Science	6	2016

	thermoluminescence studies of UV irradiated and Eu ³⁺ activated BaZr _{0.25} Ti _{0.75} O ₃ powders	Brahme	in Semiconductor Processing 44, 38-47		
71.	Investigation of Thermoluminescence characteristics of Y ₂ O ₃ nanophosphors	MK D. P. Bisen, N. Brahme, Prabhjot Singh	Radiation Protection Dosimetry, 1-9		2016
72.	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	26*	2016
73.	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	2*	2016
74.	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	16*	2016
75.	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	20	2016
76.	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 31 (16), 8-16	13	2016
77.	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	6*	2016
78.	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 11 (6), 3791-3794		2016
79.	Impulsive excitation of mechanoluminescence in europium activated strontium ortho-silicate phosphor	IP Sahu, DP Bisen, N Brahme	Journal of Materials Science: Materials in Electronics 27 (4), 3934-3940	6	2016
80.	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 27, 554-569	28	2016
81.	Photoluminescence and thermoluminescence studies of CaAl ₂ O ₄ : Dy ³⁺ phosphor	DPB Mohammad Ziyauddin, Shalinta Tigga, Nameeta Brahme	Luminescence: The Journal of Biological and Chemical Luminescence 31, 76-80	15*	2016

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3.	Exploration of crystal structure, and luminescence behaviors of Terbium-activated CaWO ₄ phosphor	R Paikaray, T Badapanda, H Mohapatra, T Richhariya, K Tiwari, ...	Journal of Molecular Structure, 135902		2023
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13.	Investigation of structural, photoluminescence, and thermoluminescence properties of Praseodymium doped CaWO ₄ phosphor	R Paikaray, T Badapanda, H Mohapatra, T Richhariya, SN Tripathy, ...	Materials Today Communications 31, 103802	4	2022
14.	Efficient white light-emitting Mg ₂₁ Ca ₄ Na ₄ (PO ₄) ₁₈ : Dy ³⁺ , Tb ³⁺ , Eu ³⁺ triple-doped glasses: a multipurpose glasses for WLEDs, solar	TS Dhapodkar, AR Kadam, N Brahme, SJ Dhoble	Materials Today Chemistry 24, 100938	8	2022

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15.	Luminescence properties of a novel cyan-blue light emitting Ce ³⁺ doped SrZrSi ₂ O ₇ phosphor	SK Baghel, N Brahme, DP Bisen, Y Patle, T Richhariya, E Chandrawanshi, ...	Optical Materials 126, 112141	7	2022
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20.	Synthesis and optical characterization of Dy ³⁺ doped barium alumino silicate phosphor	T Richhariya, N Brahme, DP Bisen, T Badapanda, A Choubey, Y Patle, ...	Materials Science and Engineering: B 273, 115445	4	2021
21.	Luminescence properties of blue-emitting Ce ³⁺ -doped series of Ca ₂ Al ₂ SiO ₇ and Sr ₂ Al ₂ SiO ₇ phosphors	T Richhariya, N Brahme, DP Bisen, Y Patle, E Chandrawanshi, N Shah	Journal of Materials Science: Materials in Electronics 32, 20793-20803	1	2021
22.	Judd-Ofelt analysis and luminescent characterization of Eu ³⁺ activated Li ₂ Zr (PO ₄) ₂ phosphor	B Verma, RN Baghel, DP Bisen, N Brahme, V Jena	Optical Materials 118, 111196	10	2021
23.	Band Gap Analysis of Ca ₃ MgSi ₂ O ₈ : Dy ³⁺ Nanorod Arrays By A Solid State Reaction Method	P Dewangan, DP Bisen, N Brahme, S Sharma, RK Tamrakar, K Upadhyay			2021
24.	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 1120 (1), 012002	3	2021
25.	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 135, 106682	6	2021
26.	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 226, 165896	15	2021
27.	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 263, 114882	12	2021
28.	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 838, 155326	12	2020
29.	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 52, 1-16	2	2020
30.	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 31,	11	2020

			14454-14465		
31.	A comparative photoluminescence and Judd–Ofelt study on alumino silicate phosphors	T Richhariya, N Brahme, DP Bisen, A Choubey, Y Patle, ...	Journal of Materials Science: Materials in Electronics 31 (16), 13667-13679	11	2020
32.	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 93 (6), 529-536	2	2020
33.	SN 2010kd: Photometric and Spectroscopic Analysis of a Slow-decaying Superluminous Supernova	A Kumar, SB Pandey, R Konyves-Toth, R Staten, J Vinko, JC Wheeler, ...	The Astrophysical Journal 892 (1), 28	17	2020
34.	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 816, 152590	20	2020
35.	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 798 (1), 012006		2020
36.	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 798 (1), 012010	2	2020
37.	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 798 (1), 012009	6	2020
38.	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 (vol 6, pg 49317, 2016)	G Tiwari, N Brahme, R Sharma, DP Bisen, SK Sao, SJ Dhoble	RSC ADVANCES 10 (9), 5196-5201		2020
39.	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 139, 1577-1583	4	2020
40.	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 805, 663-672	27	2019
41.	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 37 (4), 365-373	16	2019
42.	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 777, 423-433	59	2019
43.	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 30, 771-777	7	2019
44.	Cool white light emission from Dy ³⁺ activated alkaline alumino silicate phosphors	S Sharma, N Brahme, DP Bisen, P Dewangan	Optics Express 26 (22), 29495-29508	59	2018
45.	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 50, 1-7	15	2018
46.	Analysis of temperature and frequency dependent dielectric properties, dynamic hysteresis loop and thermal energy conversion in	GN Bhargavi, A Khare, T Badapanda, MS Anwar, N Brahme	Journal of Materials Science: Materials in Electronics 29,	21	2018

	BaZr _{0.05} Ti _{0.95} O ₃ ceramic		11439-11448		
47.	Luminescence Properties of BaAl ₂ O ₄ :Eu ²⁺ Phosphors	M Ziyauddin, N Brahme, AK Shrivastava	Luminescence 5 (04)	1	2018
48.	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 735, 1383-1388	29	2018
49.	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	14	2018
50.	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 29, 1412-1419	12	2018
51.	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 28, 16956-16964	27	2017
52.	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
53.	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 28, 4750-4757	11	2017
54.	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 183, 89-96	20	2017
55.	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 129, 83-92	3	2017
56.	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 180, 306-314	14	2016
57.	Luminescence properties of dysprosium doped di-calcium di-aluminium silicate phosphors	G Tiwari, N Brahme, R Sharma, DP Bisen, SK Sao, S Tigga	Optical Materials 58, 234-242	28	2016
58.	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 27 (7), 6721		2016
59.	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	24*	2016
60.	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 31 (3), 793-801	17	2016

61.	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 31 (3 ...	10	2016
62.	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	25	2016
63.	Effect of capping agent on the particle size of CdSe nanoparticles	NS Ravi Sharma, Nameeta Brahme	Luminescence: The Journal of Biological and Chemical Luminescence	12*	2016
64.	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	15	2016
65.	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 53, 109-115	10	2016
66.	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 44, 38-47	6	2016
67.	Investigation of Thermoluminescence characteristics of Y ₂ O ₃ nanophosphors	MK D. P. Bisen, N. Brahme, Prabhjot Singh	Radiation Protection Dosimetry, 1-9		2016
68.	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	26*	2016
69.	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	2*	2016
70.	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	16*	2016
71.	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	20	2016
72.	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 31 (16), 8-16	13	2016
73.	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	6*	2016

74.	Impulsive excitation of mechanoluminescence in europium activated strontium ortho-silicate phosphor	IP Sahu, DP Bisen, N Brahme	Journal of Materials Science: Materials in Electronics 27 (4), 3934-3940	6	2016
75.	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 27, 554-569	28	2016
76.	Photoluminescence and thermoluminescence studies of CaAl ₂ O ₄ : Dy ³⁺ phosphor	DPB Mohammad Ziyuddin, Shalinta Tigga, Nameeta Brahme	Luminescence: The Journal of Biological and Chemical Luminescence 31, 76-80	15*	2016

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S. No.	Title of Research Paper	Authors	Journal	Citation	Year
1.	Mechanoluminescence of Sr ₂ Al ₂ SiO ₇ :Eu,Dy phosphor composite film	A Jadhaw, AS Gour, P Jha	AIP Conference Proceedings 2104 (1), 020022		2019
2.	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	4	2018
3.	Studies on Photoluminescence of MgO Nanophosphors Influenced by Dy ³⁺ Ions.	AS Gour, G Sahu	Journal of Ravishankar University, Part-B Science 30		2018
4.	Thermoluminescence properties of Eu-doped and Eu/Dy-codoped Sr ₂ Al ₂ SiO ₇ phosphors	A Jadhaw, VD Sonwane, AS Gour, P Jha	Luminescence 32 (7), 1349-1353	7	2017
5.	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
6.	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	7	2017
7.	Laser shock wave-induced visible mechanoluminescence from semi-transparent organic crystals	VD Sonwane, AS Gour, P Jha	Luminescence 32 (1), 100-103		2017
8.	Laser power dependence of mechanoluminescence in metals	VD Sonwane, AS Gour, P Jha	Luminescence 31 (8), 1422-1426	2	2016

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S. No.	Title of Research Paper	Authors	Journal	Citation	Year
1.	Type Ia supernovae SN 2013bz, PSN J0910+ 5003, and ASASSN-16ex: similar to 09dc-like?	S Tiwari, NK Chakradhari, DK Sahu, GC Anupama, B Kumar, KR Sahu	Monthly Notices of the Royal Astronomical Society 521 (4), 5207-5223		2023
2.	Can the violent merger of white dwarfs explain the slowest declining Type Ia supernova SN 2011aa?	A Dutta, GC Anupama, NK Chakradhari, DK Sahu	The Astrophysical Journal Letters 938 (2), L22	1	2022

3.	Modeling the late-time merger ejecta emission in short gamma ray bursts	A Ghosh, K Misra, SV Cherukuri, L Resmi, KG Arun, A Omar, Dimple, ...	Journal of Astrophysics and Astronomy 43 (2), 66		2022
4.	Search for merger ejecta emission from late time radio observations of short GRBs using GMRT	A Ghosh, CS Vaishnava, L Resmi, K Misra, KG Arun, A Omar, ...	arXiv preprint arXiv:2207.10001	1	2022
5.	Study of chemically peculiar stars – I. High-resolution spectroscopy and K2 photometry of Am stars in the region of M44	S Joshi, O Trust, E Semenko, PE Williams, P Lampens, P De Cat, ...	Monthly Notices of the Royal Astronomical Society 510 (4), 5854-5871		2022
6.	Quest for the Upcoming Periastron Passage of an Episodic Dust Maker and Particle-accelerating Colliding-wind Binary: WR 125	B Arora, JC Pandey, M De Becker, SB Pandey, NK Chakradhari, ...	The Astronomical Journal 162 (6), 257	2	2021
7.	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
8.	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 487 (2), 1886-1904	6	2019
9.	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	6	2019
10.	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	26	2018
11.	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	3	2018
12.	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	14	2018
13.	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
14.	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
15.	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	40	2016
16.	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	33	2016
17.	VizieR Online Data Catalog: Nainital-Cape	S Joshi, P Martinez, S	VizieR Online		2016

	Survey. IV.(Joshi+, 2016)	Chowdhury, NK Chakradhari, YC Joshi, ...	Data Catalog, J/A+ A/590/A116		
18.	Transient Classification Report for 2016-01-09	DK Sahu, GC Anupama, S Srivastav, NK Chakradhari	Transient Name Server Classification Report 2016, 1		2016
19.	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	6	2016

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S. No.	Title of Research Paper	Authors	Journal	Citation	Year
1	Effect of TiO ₂ on ion transport properties and dielectric relaxation of sodium ion-conducting novel PEO/PAN-blended solid polymer electrolyte	N Kumar, DK Sahu, YK Mahipal	Journal of Materials Research 38 (9), 2506-2518		2023
2	Electrical and thermal analysis on Na ⁺ -ion conducting novel blended solid polymer electrolyte membranes	N Kumar, M Sahu, YK Mahipal	Materials Today: Proceedings 83, 33-38	1	2023
3	Physical and electrical property studies on sodium (Na ⁺)–Ion conducting Nano–Composite Polymer Electrolyte membranes	M Sahu, N Kumar, DK Sahu, RC Agrawal, YK Mahipal	Materials Today: Proceedings 83, 69-74		2023
4	Investigation of ZnO nano-filler-dispersed nano-composite polymer electrolytes and their ion transport property	N Kumar, M Sahu, DK Sahu, YK Mahipal	Journal of Solid State Electrochemistry 26 (8), 1613-1626	1	2022
5	A graphene-printed paper electrode for determination of H ₂ O ₂ in municipal wastewater during the COVID-19 pandemic	T Kant, K Shrivastava, I Karbhari, S Yadav, S Sahu, YK Mahipal, V Ganesan	New Journal of Chemistry 46 (3), 1362-1370	5	2022
6	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	26	2020
7	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, 3321-3329	17	2019
8	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, 2885-2892	5	2018
9	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	49	2017
10	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, 2721-2726	39	2017
11	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	5	2017
12	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	22	2017
13	An approach to solid-state electrical double	NFA Fattah, HM Ng, YK	Materials 9 (6),	73	2016

	layer capacitors fabricated with graphene oxide-doped, ionic liquid-based solid copolymer electrolytes	Mahipal, A Numan, S Ramesh, K Ramesh	450		
14	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, 107-114	13	2016
15	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	123	2016

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S. No.	Title of Research Paper	Authors	Journal	Citation	Year
1	Luminescence properties of a novel cyan-blue light emitting Ce ³⁺ -doped SrZrSi ₂ O ₇ phosphor	<u>Baghel, S.K., Brahme, N., Bisen, D.P., ...Chandrawansi, E., Belodhiya, C.</u>	<u>Optical Materials</u> , 126, 112141	<u>7</u>	2022
2	Studies on structural properties, luminescence behavior and zeta potential of Dy ³⁺ doped alkaline earth ortho-silicate phosphors	<u>Ram Banjare, G., Bisen, D.P., Brahme, N., Belodhiya, C.</u>	Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 263, 114882	<u>10</u>	2021
3	Synthesis and luminescence behavior of Ba ₂ SiO ₄ :Dy ³⁺ phosphors in presence of charge compensator ions	<u>Banjare, G.R., Bisen, D.P., Brahme, N., Belodhiya, C., Upadhyay, A.K.</u>	IOP Conference Series: Materials Science and Engineering, 798(1), 012010	<u>1</u>	2020
4	Thermoluminescence studies of Dy ³⁺ -doped calcium barium orthosilicate codoped with Li ⁺ ion	<u>Banjare, G.R., Bisen, D.P., Brahme, N., ...Chandrawansi, E., Sahu, I.P.</u>	<u>Journal of Thermal Analysis and Calorimetry</u> , 139(3), pp. 1577–1583	<u>3</u>	2020