

## Faculty Profile

### Personal details:

1. **Name** : Dr. Nikhilesh S. Bajaj
2. **Designation** : Assistant Professor, Level 10
3. **Department** : Physics
4. **Mobile no.** : 9604555666
5. **E-mail** : nikhileshbajaj@yahoo.com



### Academic Qualifications:

Sr. No.	Name	University / Board	Year of Passing	Percentage & Grade	Specialization
01.	Bachelor	SGB Amravati University	2006	68.08	Computer Science
02.	Master	SGB Amravati University	2008	69.70	Condensed Matter Physics
03.	Ph.D.	SGB Amravati University	March 2014		

### Faculty Development programs

Name of the Course	Place	Duration	Name of Organizer

### Research:

#### 1. Research project:

Sr. No.	Title	Funding Agency	Duration	Sanctioned amount (Rs.)	Status	PI/ Co-PI
01						

#### 2. Patents: 01

**Name of Invention:** Synthesis and Optical Analysis of  $\text{Eu}^{3+}$  and  $\text{Dy}^{3+}$  Activated  $\text{MgPbAl}_{10}\text{O}_{17}$  Phosphor for Solid State Lighting

**Patent Number:** 2021106824

**Granting Government:** Australian Government, IP, Australia

#### 3. Publications:

Particulars	Papers	Books	Chapter in Books	Abstract	Others
Quantity	108	03	03	--	

#### List of Publications:

#### 4. Online research databases:

Google scholar <https://scholar.google.co.in/citations?user=CYuUuMIAAAAJ&hl=en>

Researchgate : [https://www.researchgate.net/profile/Nikhilesh-Bajaj?ev=hdr\\_xpr](https://www.researchgate.net/profile/Nikhilesh-Bajaj?ev=hdr_xpr)

## Work Experience:

Designation	Institutes/Company	Period
Assistant Professor	Toshniwal College Sengaon, Dist: Hingoli (MS)	March 2015- Till date
CHB Lecturer	Department of Physics SGB Amravati University	August 2013- March 2015
Lecturer	FY Department of Engg. PRMIT&R Amravati	Sep. 2013- Dec. 2013
Project Fellow	Department of Physics SGB Amravati University	Nov. 2010 – July 2013
Prog. Analyst	Cognizant Technology Solutions, Pune	Dec. 2009-Oct. 2010

## Position held (at college, university, state, national levels)

<b>Editor in chief :</b>	Nanotechnology and Nanoscience (ISSN-0976-7630) <i>Bioinfo Publications</i>
<b>Editor in chief :</b>	Global Scholars Journal of Computer and Electrical Engineering <i>Global Scholars Journal</i>

## List of Publications

SN	Title	Journal, Issue, Volume, Page No.	ISSN	C-A	IF
<b>Papers in Peer Reviewed Journals</b>					
1	Photoluminescence (PL) properties of NaLi <sub>2</sub> PO <sub>4</sub> : Eu <sup>3+</sup> phosphor for solid state lighting application	YMER Digital	ISSN : 0044-0477	4	5.7
2	Photo-Luminescence study of Ba <sub>3</sub> Gd <sub>1-x</sub> (BO <sub>3</sub> ) <sub>3</sub> : X Ce <sup>3+</sup> phosphor	YMER Digital	ISSN : 0044-0477	4	5.7
3	Microwave-assisted combustion synthesis and luminescent properties of color-tunable Eu <sup>3+</sup> /Tb <sup>3+</sup> co-doped BaLaB <sub>9</sub> O <sub>16</sub>	Luminescence	ISSN: 1522-7243	3	2.464
4	Growth And Characterization of CuInSe <sub>2</sub> Thin Films	Open Access International Journal of Science and Engineering	ISSN (Online) 2456-3293	1	--
5	Soft Chemical Route Synthesized CdS/CuInGaSe <sub>2</sub> Thin Films for Photovoltaic Application	i-Manager's Journal on Material Science	ISSN: 2347-2235	3	--
6	Optical properties of one dimensional hybrid PVA/YVO <sub>4</sub> :Eu <sup>3+</sup> nanofibers synthesized by electrospinning	Optik, 140, 211-215,	ISSN: 0030-4026	3	0.769
7	Red and blue emitting borate phosphor excited by near Ultraviolet Light	Journal of Optics (India) 46 (2), 91-94	ISSN: 0972-8821	3	0.765
8	Eu <sup>3+</sup> doped N-UV emitting LiSrPO <sub>4</sub> phosphor for W-LED application	Optik 130, 149-153	ISSN: 0030-4026	2	0.769
9	Synthesis and photoluminescence study of narrow-band UVB-emitting LiSr <sub>4</sub> (BO <sub>3</sub> ) <sub>3</sub> :Gd <sup>3+</sup> , Pr <sup>3+</sup> phosphor	Bulletin of Materials Science 40 (1)	ISSN: 0250-4707	2	0.899
10	Luminescence properties of terbium-doped Li <sub>3</sub> PO <sub>4</sub> phosphor for radiation dosimetry	Bulletin of Materials Science 39 (7)	ISSN: 0250-4707	2	0.899
11	Near-infrared spectral downshifting in Sr <sub>3-x</sub> (VO <sub>4</sub> ) <sub>2</sub> :xNd <sup>3+</sup> phosphor	Bulletin of Materials Science 39 (7), 1625-1629	ISSN: 0250-4707	3	0.899
12	<b>Synthesis and luminescence properties of Tb<sup>3+</sup>-doped LiMgPO<sub>4</sub> phosphor</b>	<b>Bulletin of Materials Science 39 (5), 1157-1163</b>	<b>ISSN: 0250-4707</b>	<b>3</b>	<b>0.899</b>
13	Synthesis and TL/OSL properties of CaSiO <sub>3</sub> :Ce biomaterial	Materials Letters 175, 288-290	ISSN: 0167-577X	3	2.572
14	Studies on optical properties of LiCaBO <sub>3</sub> : Tb <sup>3+</sup> phosphor	Indian Journal of Pure and Applied Physics 54 (7), 458-462	ISSN: 0975-1041	1	0.521
15	Synthesis and TL/OSL properties of a novel high-sensitive blue-emitting LiSrPO <sub>4</sub> :Eu <sup>2+</sup> phosphor for radiation dosimetry	Applied Physics A: Materials Science and Processing A 122 (7), 1-8	ISSN: 1432-0630	4	1.455
16	A novel high sensitivity KCaPO <sub>4</sub> :Ce <sup>3+</sup> phosphor for radiation dosimetry	Research on Chemical Intermediates 42 (10), 7637-7649	ISSN: 1568-5675	4	1.369

SN	Title	Journal, Issue, Volume, Page No.	ISSN	C-A	IF
17	Synthesis and luminescence properties of Tb <sup>3+</sup> -doped LiMgPO <sub>4</sub> phosphor	Bulletin of Materials Science 39 (5), 1157-1163	ISSN: 0250-4707	3	0.899
18	Synthesis and preliminary TL/OSL properties of Li <sub>2</sub> B <sub>4</sub> O <sub>7</sub> : Cu-Ag phosphor for radiation dosimetry	Optik-International Journal for Light and Electron Optics 127 (16), 6419-6423	ISSN: 0030-4026	4	0.769
19	TL/OSL properties of green emitting LiMgPO <sub>4</sub> : Tb <sup>3+</sup> , B (LMPTB) phosphor for radiation dosimetry	Journal of Inorganic and Organometallic Polymers and Materials 26 (4), 845-854	ISSN: 1574-1451	4	1.577
20	Novel KMgPO <sub>4</sub> :Tb <sup>3+</sup> (KMPT) Phosphor for Radiation Dosimetry	Journal of Luminescence,	ISSN: 0022-2313	3	2.686
21	Near- infrared quantum cutting in Yb <sup>3+</sup> ion doped strontium vanadate	Infrared Physics and Technology	ISSN: 1350-4495	2	1.713
22	Elementary results on dosimetric properties of SrSO <sub>4</sub> :Eu <sup>2+</sup> phosphor	St. Peterberg Polytechnical University Journal: Physics and Mathematics	ISSN: 2405-7223	2	--
23	Preliminary Results on Effect of Boron Co-Doping on CW-OSL and TL Properties of LiMgPO <sub>4</sub> : Tb, B	Journal of Luminescence ,	ISSN: 0022-2313	4	2.686
24	Synthesis and thermo luminescence/optically stimulated luminescence properties of CaB <sub>4</sub> O <sub>7</sub> :Ce Phosphor	Journal Of Materials Science-Materials In Electronics	ISSN: 0957-4522	3	2.019
25	Near-infrared down conversion in Y(1-x)Yb <sub>x</sub> VO <sub>4</sub> for sensitization of c-Si solar cells	Optik	ISSN: 0030-4026	3	0.769
26	Luminescence of SrAl <sub>2</sub> O <sub>4</sub> :Sm Phosphor	International Journal of Luminescence and Applications	ISSN 2277 – 6362	3	3.805*
27	Thermoluminescence and optically stimulated luminescence properties of MgB <sub>4</sub> O <sub>7</sub> :Ag Phosphor	International Journal of Luminescence and Applications	ISSN 2277 – 6362	4	3.805*
28	Luminescence properties of Eu <sup>2+</sup> doped SrB <sub>4</sub> O <sub>7</sub> phosphor for radiation dosimetry	Material Research Bulletin	ISSN: 0025-5408	2	2.446
29	Li <sub>3</sub> PO <sub>4</sub> :M (M=Tb, Cu) phosphor for radiation dosimetry	Rare Metal	ISSN: 1001-0521	4	1.189
30	Combustion synthesis and preliminary luminescence studies of LiBaPO <sub>4</sub> :Tb <sup>3+</sup>	Bulletin of Material Science	ISSN: 0250-4707	4	0.899
31	Exploring synthesis techniques for yttrium based phosphors	Defects and Diffusion Forum 361, 95-119	ISSN: 1662-9507	2	0.24
32	Combustion synthesis and optimization of Tb <sup>3+</sup> doped AZr <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> (A+=Li, Na, K) phosphors for mercury free lamps and plasma display panels application	Journal of Chinese Advance Materials Society	ISSN: 2224-3682	3	--
33	Low temperature steric acid sol gel synthesis of a-Al <sub>2</sub> O <sub>3</sub> quantum dots and its optical properties	Journal of Sol-Gel Science and Technology	ISSN: 0928-0707	1	1.575
34	Low temperature synthesis and improvement in optical properties of MgO:Tb <sup>3+</sup>	International Journal of Material Science and Engineering	ISSN: 2315-4527	2	--

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35	Aldo Keto Synthesis effects on Eu <sup>3+</sup> fluorescence in YBO <sub>3</sub> compared with solid state diffusion	Journal of Rare Earth	ISSN: 1002-0721	2	2.429
36	Photoluminescence in a Novel Aldo-Keto Synthesized YPO <sub>4</sub> :Eu <sup>3+</sup> Nanophosphor	Solid State Phenomena:nanomaterials - Basic Concepts & Applications Vol. 222 pp 179-185	ISSN: 1662-9779	2	--
37	Synthesis and Effect of Partially Replacement of Y <sup>3+</sup> to La <sup>3+</sup> -Ions on Photoluminescence Properties of (Y(1-x)Lax)PO <sub>4</sub> :0.01Eu <sup>3+</sup> Phosphor	Electronic Materials Letters 11 (2) 303-307	ISSN: 1738-8090	2	1.79
38	Effect of calcination temperature on structural and optical properties of europium (III) doped SrO–Y <sub>2</sub> O <sub>3</sub> phosphor	Journal Of Materials Science-Materials In Electronics	ISSN: 0957-4522	2	2.019
39	Synthesis and Luminescence Properties of Eu <sup>3+</sup> -Doped SrY <sub>2</sub> O <sub>4</sub> Phosphor	International Journal of Luminescence and Applications , 5 (1), 134-136(2015)	ISSN 2277 – 6362	2	3.805*
40	Elementary Result TL and OSL Properties of LiBaPO <sub>4</sub> : Tb <sup>3+</sup> Phosphor	International Journal of Luminescence and Applications, 5 (1), 12-14(2015)	ISSN 2277 – 6362	3	3.805*
41	Synthesis and Down-Conversion Studies on Y <sub>2</sub> O <sub>3</sub> : Yb <sup>3+</sup> , Bi <sup>3+</sup> Phosphor	International Journal of Luminescence and Applications, 5 (1), 100-102(2015)	ISSN 2277 – 6362	3	3.805*
42	Dosimetric Studies in Combustion Synthesized LiSr <sub>4</sub> (BO <sub>3</sub> ) <sub>3</sub> : Sm (III) under X-ray Irradiation	Journal of the Chinese Advanced Materials Society,1-16	ISSN: 2224-3682	1	--
43	Novel Preparation Method And Luminescent Properties Of Eu <sup>3+</sup> Doped YBO <sub>3</sub> Phosphor Under VUV Excitation	International Journal of Science, Environment and Technology , 4(1), 152-160	ISSN 2277-663X	4	--
44	VUV Properties Of Eu <sup>3+</sup> - Doped YBO <sub>3</sub> Phosphor Prepared Via Aldo-Keto And Solid-State Process	Journal Of Advances In Physics 7(3) 1897-1905	ISSN: 2168-1996	4	--
45	Combustion Synthesis and Photoluminescence Properties of Novel Eu <sup>3+</sup> Ion Doped Magnesium Yttrium Borate Phosphor	Romanian Journal of Physics Volume 60(3-4), 2015	ISSN 1221-146X	2	1.758
46	Effect of partially replacement of Gd <sup>3+</sup> ions on fluorescence properties of YBO <sub>3</sub> :Eu <sup>3+</sup> phosphor synthesized via precipitation method	Optical Materials Vol. 39, 2014, Pages-74-80	ISSN: 0925-3467	2	2.238
47	Combustion Synthesis and Photoluminescence properties of Eu <sup>3+</sup> Activated Y <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> Nano Phosphor	Indian Journal of Physics	ISSN: 0973-1458	2	0.988
48	Advances in Synthesis and Characterization of LiMgBO <sub>3</sub> :Dy <sup>3+</sup>	Optik Volume 125, 2014, Pages 4077–4080	ISSN: 0030-4026	1	0.769
49	A potential candidate for lamp phosphor: Eu <sup>3+</sup> activated K <sub>2</sub> Y <sub>2</sub> B <sub>2</sub> O <sub>7</sub>	Advances in Optical Technologies 2014, Article number 706459	ISSN: 1687-6393	2	0.60
50	Tb <sup>3+</sup> optical transitions in novel luminescence host NaAlO <sub>2</sub>	Journal of Luminescence Volume 153, September 2014, Pages 288–290	ISSN: 0022-2313	1	2.686
51	Luminescence in Eu <sup>3+</sup> Activated Li <sub>2</sub> Y <sub>2</sub> B <sub>2</sub> O <sub>7</sub> Phosphor	International Journal of Chemistry	ISSN 22249-2119	2	--

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		Vol 3 (1) (2014) P. 42 – 46			
52	Combustion Synthesis and Luminescence Characteristics of NaSr <sub>4</sub> (BO <sub>3</sub> ) <sub>3</sub> :Tb <sup>3+</sup>	Journal of Luminescence Vol No. 148 (2014) P 169-173	ISSN: 0022-2313	1	2.686
53	Combustion Synthesis and Characterization of Phosphor K Sr <sub>4</sub> (BO <sub>3</sub> ) <sub>3</sub> :Dy <sup>3+</sup>	Optical Materials Vol No. 35 issue No. 6 P. 1222-1225	ISSN 0925-3467	1	2.238
54	Combustion synthesis and luminescence characteristic of rare earth activated LiCaBO <sub>3</sub>	Journal Of Rare Earths, Vol. 30, No. 10, Oct. 2012, P. 1005-1008	ISSN 1002-0721	1	2.429
55	Synthesis and Luminescence Studies of Novel Rare Earth Activated Lanthanum Pentaborate LaB <sub>5</sub> O <sub>9</sub>	Indian Journal of Pure and Applied Physics, Vol. 49, Issue 12 (2011) P.N. 799-802	ISSN 0019-5596	3	0.521
<b>Conference papers published in Peer reviewed Journals</b>					
1	VUV investigation of blue emitting MA12O19: Eu (M= Ca, Sr, Ba) phosphors synthesized by combustion method	Journal of Physics: Conference Series			
2	Preparation Of 1d-Hybrid Zno/Pva Nano-Fibers Synthesized By Electro-Spinning	Review of Research, Special Issue, 1-5	ISSN: 2249-894X	2	5.7631 (UIF)
3	Synthesis And Dosimeter Properties Of Ce <sup>3+</sup> Activated Licap <sub>4</sub> Phosphor For Radiation Dosimetry	Review of Research, Special Issue, 19-23	ISSN: 2249-894X	4	5.7631 (UIF)
4	Photoluminescence (PL) Properties Of Nali <sub>2</sub> po <sub>4</sub> :Eu <sup>3+</sup> Phosphorfor Solid State Lighting Application	Review of Research, Special Issue, 46-50	ISSN: 2249-894X	3	5.7631 (UIF)
5	A Review On Current Trends In Synthesis Of Mix Metal Oxides: Special Reference To Biomedical Application	Review of Research, Special Issue, 51-58	ISSN: 2249-894X	2	5.7631 (UIF)
6	Photoluminescence Study Of Narrowband UVB Emitting Ksrpo <sub>4</sub> :Gd <sup>3+</sup> Phosphors	Review of Research, Special Issue, 72-76	ISSN: 2249-894X	4	5.7631 (UIF)
7	Photoluminescence Study Of Combustion Synthesized Ce <sup>3+</sup> Doped SrLaAl <sub>3</sub> O <sub>7</sub> Phosphor	Review of Research, Special Issue, 42-46	ISSN: 2249-894X	4	5.7631 (UIF)
8	Luminescence properties of MgB <sub>4</sub> O <sub>7</sub> :Tb <sup>3+</sup> phosphor for radiation dosimetry	Ideal, Vol-II, pp 13-17, RAS-2017	ISSN 2319-359X	2	
9	Near infrared photo luminescence in La <sub>0.98</sub> Al <sub>0.02</sub> O <sub>3</sub> :Ln <sup>3+</sup> (Ln=Nd/Yb) for sensitization of c-Si Solar Cells	AIP Conference proceedings	ISSN 1551-7616	3	
10	Study of photo luminescence properties of CaAl <sub>2</sub> O <sub>4</sub> :Eu <sup>2+</sup> prepared by combustion synthesis method	AIP Conference Proceedings	ISSN 1551-7616	2	
11	Synthesis and photo luminescence properties of Pb <sup>2+</sup> Doped inorganic borate phosphors NaSr <sub>4</sub> (BO <sub>3</sub> ) <sub>3</sub>	AIP Conference Proceedings	ISSN 1551-7616	3	

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12	Synthesis and luminescence properties of K <sub>2</sub> PO <sub>4</sub> :Eu phosphor for radiation dosimetry	AIP Conference Proceedings	ISSN 1551-7616	2	
13	Study of optical properties of cerium doped barium aluminum oxide phosphor	AIP Conference Proceedings	ISSN 1551-7616	3	
14	Synthesis and photo luminescence properties of Eu(III) activated YBaB9O16	International Journal Advance Research in Basic and Applied sciences Vol.1, No.1, pp 25-28,	(ISSN : 2394-4072)	3	
15	Multi Application Phosphor LiMgPO <sub>4</sub> :Tb <sup>3+</sup> for Radiation Dosimetry	International Journal Advance Research in Basic and Applied sciences Vol.1, No.1, pp 28-30,	(ISSN : 2394-4072)	3	
16	Synthesis and Characterization of MgY <sub>2</sub> B <sub>2</sub> O <sub>7</sub> :Eu(III) phosphors	International Journal of ChemTech research Vol.6, No.6, pp 3287-3290,	(ISSN : 0974-4290)	2	
17	Characterization and Syringe Method Synthesis of MF <sub>2</sub> : Eu (M=, Mg Ca)	International Journal of ChemTech Research Vol.6, No.6, pp 3252-3255	(ISSN : 0974-4290)	2	
18	Synthesis and Optical Properties of Nano- crystalline Phosphor Sr <sub>4</sub> Al <sub>14</sub> O <sub>25</sub> :Tb <sup>3+</sup>	International Journal of Basic and Applied Research Special Issue (2014)	ISSN-2229-4554	3	
19	Samarium (III) Activated NaBaBO <sub>3</sub> Phosphor for Solid State Lighting Application	International Journal of Basic and Applied Research Special Issue (2014)	ISSN-2229-4554	3	
20	Structure and luminescence properties of Dy <sup>3+</sup> doped in SrAl <sub>2</sub> O <sub>4</sub> phosphor	International Journal of Basic and Applied Research Special Issue (2014)	ISSN-2229-4554	1	
21	Eu <sup>3+</sup> activated YCaBO <sub>4</sub> for Lamp phosphor Application	International Journal of Basic and Applied Research Special Issue (2014)	ISSN-2229-4554	3	
22	Combustion synthesized blue emitting phosphor Ca <sub>3</sub> WO <sub>6</sub> :Eu <sup>2+</sup>	International Journal of Basic and Applied Research Special Issue (2014)	ISSN-2229-4554	2	
23	Luminescence in europium activated K <sub>2</sub> Al <sub>2</sub> B <sub>2</sub> O <sub>7</sub> phosphor	Proceeding of NCSANM-2013 Special Issue (2013) Page No. 47-49	ISSN-2229-4554	3	
24	Synthesis and Characterization of MgO: Tb <sup>3+</sup>	Proceeding of NCSANM-2013Special Issue (2013) Page No. 211-212	ISSN-2229-4554	2	
25	LEDs Phosphor BaAl <sub>2</sub> O <sub>4</sub> : Sm Prepared by Solution Combustion Synthesis	AIP Conference Proceedings Vol. 1536 (2013) P.N. 803-804	ISSN 1551-7616	1	
26	Thermo Luminescence Study Of SrB <sub>4</sub> O <sub>7</sub> : Cu Phosphor Prepared By Combustion Synthesis	International Journal of Modern Physics: Conference Series Vol. 22 (2013) P.N. 404-407	ISSN 2010-1945	1	

SN	Title	Journal, Issue, Volume, Page No.	ISSN	C-A	IF
27	Combustion Synthesis and Thermo Luminescence in Y-Irradiated Borate phosphors Activated with Terbium(III)	Asian Journal of Chemistry Vol 24 No. 12 (2012) P 5945-5949	ISSN No. 0975-427X	1	
28	Materials Used In Thermo Luminescence Dosimetry (TLD) and Their Application: An Overview	Bionano frontier Vol. 5 (2012) pp. 77-82	ISSN 0974-0678	1	
29	Photo Luminescence Characteristics of Rare Earth activated Green Emitting Phosphors NaSr <sub>4</sub> (BO <sub>3</sub> ) <sub>3</sub>	Bionano frontier Vol. 5 (2012) pp. 90-92	ISSN 0974-0678	2	
<b>Paper Published in Conference Proceeding With ISBN</b>					
1	Synthesis and luminescence properties of NaMgPO <sub>4</sub> :Eu for solid State devices and radiation dosimetry	(NCLA-2016), Nagpur, pp-86	ISBN 978-93-82570-72-1	3	
2	TL/OSL properties of Li <sub>2</sub> B <sub>4</sub> O <sub>7</sub> :Ag phosphor for radiation dosimetry	(NCLA-2016), Nagpur, pp-102	ISBN 978-93-82570-72-1	2	
3	Spectral Conversion from UV to NIR radiation by YVO <sub>4</sub> :Bi <sup>3+</sup> , Yb <sup>3+</sup> Phosphor	(NCLA-2016), Nagpur, pp-103	ISBN 978-93-82570-72-1	2	
4	Preparation and photo luminescence properties of one dimensional Sr <sub>3</sub> (VO <sub>4</sub> ):Eu Nanofiber	(NCLA-2016), Nagpur, pp-14	ISBN 978-93-82570-72-1		
5	Comparative study of nanosized Al <sub>2</sub> O <sub>3</sub> powder synthesized by Sol-Gel (citric & steric acid) and also keto gel method	NCCS-2016, Nagpur, PP-17		3	
6	Spectral Downshifting of Visible Light to Near-Infrared Emission Through Energy Transfer from Ce <sup>3+</sup> to Nd <sup>3+</sup> in YAG	(NSAMA-2015) Maregaon pp-96-99	ISBN 978-81-930894-1-5	2	
7	<u>UVB Emitting Phosphor:LaPO<sub>4</sub>:Ce<sup>3+</sup>Synthesis and Characterizations</u>	(NSAMA-2015) Maregaon pp-27-29	ISBN 978-81-930894-1-5	3	
8	<u>Preliminary Investigation on Dosimetric Properties in SrSO<sub>4</sub>:Eu<sup>2+</sup> Phosphor</u>	(NSAMA-2015) Maregaon pp-171-173	ISBN 978-81-930894-1-5	2	
9	<u>Preliminary UV Dosimetric Investigation on Y<sub>2</sub>O<sub>3</sub>:Eu<sup>3+</sup> Synthesized Via Novel Aldo-Keto Gel Synthesis</u>	(NSAMA-2015) Maregaon pp-200-203	ISBN 978-81-930894-1-5	2	
10	<u>Red Emitting Phosphor for W-LEDs:SrZn<sub>2</sub>P<sub>2</sub>O<sub>7</sub>:Eu<sup>3+</sup>:Synthesis and Luminescence Properties</u>	(NSAMA-2015) Maregaon pp-210-213	ISBN 978-81-930894-1-5	2	
11	Red and Blue Emitting Borate Phosphor for Near-UV Light-Emitting Diodes	ICLA-04-2012 Hyderabad pp-153	ISBN 81-6717-806-5	2	
12	Combustion Synthesis and Photoluminescence Study of Ba <sub>3</sub> LaB <sub>9</sub> O <sub>18</sub> :Tb <sup>3+</sup>	ICLA-04-2012 Hyderabad pp-242	ISBN 81-6717-806-5	2	
13	Synthesis and Photoluminescence of YCaBO <sub>4</sub> :RE <sup>3+</sup> (RE=Eu,Tb)	ICLA-04-2012 Hyderabad pp-243	ISBN 81-6717-806-5	2	



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14	Synthesis and Thermoluminescence Glow curves of Novel Phosphors NaSr <sub>4</sub> (BO <sub>3</sub> ) <sub>3</sub> : Tb <sup>3+</sup> & KSr <sub>4</sub> (BO <sub>3</sub> ) <sub>3</sub> : Dy <sup>3+</sup>	ICLA-04-2012 Hyderabad pp-327	ISBN 81-6717-806-5	2	
15	Thermoluminescence in Gamma Irradiated Novel Phosphor NaSr <sub>3</sub> (Sr <sub>1-x</sub> Cu <sub>x</sub> ) (BO <sub>3</sub> ) <sub>3</sub>	ICLA-04-2012 Hyderabad pp-328	ISBN 81-6717-806-5	2	
16	TL Glow Curve and Kinetic study of Dysprosium (III) doped Lithium Magnesium Borate	NCLAM-2012 Amravati pp-14-16	ISBN 978-81-922256-6-1	1	
17	UV Excited Red Emitting Phosphor LiAlO <sub>2</sub> : Eu Prepared by Modified Combustion Synthesis	NCLAM-2012 Amravati pp-134-135	ISBN 978-81-922256-6-1	2	
18	Synthesis and Luminescence Properties of Strong Blue Emitting Phosphor SrAl <sub>2</sub> O <sub>4</sub> for Solid State Lighting	NCLAM-2012 Amravati pp-139-141	ISBN 978-81-922256-6-1	2	
19	Photoluminescence in Europium (III) Activated Phosphor NaBaBO <sub>3</sub> for Solid State Lighting Application	NCLAM-2012 Amravati pp-142-144	ISBN 978-81-922256-6-1	2	
20	Solution Combustion Synthesis and Luminescence Properties of CaAl <sub>2</sub> O <sub>4</sub> : RE (RE=Tb <sup>3+</sup> and Dy <sup>3+</sup> )	NCLAM-2012 Amravati pp-148-150	ISBN 978-81-922256-6-1		
21	Combustion Synthesis and Thermo Luminescence Characteristic of X-Ray irradiated LiCaBO <sub>3</sub> : D (Tb and Dy)	NSTIEI-2012 Amravati pp-220-223	ISBN 978-81-922256-5-4	1	
22	Thermoluminescence in Gamma Irradiated Phosphor MM' <sub>4</sub> BO <sub>3</sub> : Tb and MM' <sub>4</sub> (BO <sub>3</sub> ) <sub>3</sub> : Dy (M = Na, M' = Sr)	NCSCAM-2011 Chandrapur	ISBN: 978-93-81660-32-4	2	
23	High efficiency Blue Emitting LaMgB <sub>5</sub> O <sub>10</sub> : Ce <sup>3+</sup> Phosphor for Near-UV Light Emitting Diodes	NCSCAM-2011 Chandrapur	ISBN: 978-93-81660-32-4	2	
24	Synthesis and Thermoluminescence Glow curves of Phosphors LiCaBO <sub>3</sub> :Dy <sup>3+</sup> and LiCaBO <sub>3</sub> :Tb <sup>3+</sup> Exposed by X-rays	NCNst-2011 Nagpur pp-111-112			
Chapter Published in Book					
SN	Title of Book Chapter	Book Name and Publisher	ISBN	C-A	Editors
	Energy materials: synthesis and characterization techniques,	<b>Book Name:</b> Energy Materials, 1st Edition - August 15, 2021 <b>Publisher:</b> Elsevier	eBook ISBN: 9780128237113 Paperback ISBN: 9780128237106	1	Sanjay Dhoble, et.al
2	"Understanding OSL Radiation Dosimetry and Its Application"	<b>Book Name:</b> Radiation Dosimetry Phosphors <b>Publisher:</b> Elsevier, 1st Edition - June 1, 2022	Paperback ISBN: 9780323854719	1	Sanjay Dhoble, et.al

SN	Title	Journal, Issue, Volume, Page No.	ISSN	C-A	IF
3	An introduction to radio-photoluminescence and scintillation for dosimetric applications	<b>Book Name:</b> Radiation Dosimetry Phosphors <b>Publisher:</b> Elsevier, 1st Edition - June 1, 2022	Paperback ISBN: 9780323854719	3	Sanjay Dhoble, et.al

