

# CURRICULUM VITAE

## General Information

**Name** : Dr. Abhijit Omprakashsingh Chauhan

**Designation** : Assistant Professor

**Subject** : Physics

**Postal Address** : Department of Physics, Vidya Bharati Mahavidyalaya, Amravati (NAAC Re-accredited A Grade with CGPA : 3.23, CPE Status by UGC III-Phase, Star College Status by DBT)  
C.K. Naidu Road, Camp, Amravati, (M.S.) India - 444 602

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**Area of Specialization** : Networking Theorem and Solid State Devices, Condense Matter Physics

**Area of Research** : Luminescence, Material Science, Bio-materials



## Academic Qualification

### **Ph. D**

Title : *"Development of phosphor for UV-LED based phototherapy lamp"*

Supervisor : Dr. S. K. Omanwar

Research Center : Department of Physics, SGB Amravati University, Amravati.

Sr. No.	Exam/ Degree	Subject/s	Board/University	Year of Passing	Division
1	B. Ed	Physics and Mathematics	SGB Amravati University	2014	I
2	M.Sc.	Physics	SGB Amravati University	2013	I
3	B.Sc.	Physics, Chemistry & Mathematics	SGB Amravati University	2011	I
4	H.S.C	General Science	Amravati State Board	2008	II
5	S.S.C	General Subjects	Amravati State Board	2006	I

## Teaching Experience

1. Undergraduate (Physics): **04 Yrs**
2. Postgraduate (Physics): **04 Yrs**

## Research experience

Duration	Organization	Area(s)
January 2015 - Present	Department of Physics, Vidya Bharati Mahavidyalaya, Amravati	Luminescence Materials, Nanomaterials, Phosphors for UV-LED, Solar Spectrum Modification, Solid State Lightning

## **Research Profile**

- ✦ Research Publication: 62
- ✦ International Journals: 25
- ✦ Conferences/ Seminar/ Symposium: 37
- ✦ No. of Book/ Articles/ Chapters Published: 01
- ✦ No. of M.Sc. Project Guided: 18
- ✦ Google Scholar - <https://scholar.google.co.in/citations?user=E7kLPV4AAAAJ&hl=en>
- ✦ Scopus - <https://www.scopus.com/authid/detail.uri?authorId=57205989454>

## **Proficiency in Instrumentations Handling**

- ✦ Recording and analysis of X-ray Diffraction Data (Rigaku Miniflex II, Japan).
- ✦ Recording and interpretation of Photoluminescence Data (Hitachi F7000, Japan).
- ✦ Handling the Instrument like Electrospinning
- ✦ Gas Sensing Unit
- ✦ Humidity Sensing Unit

**Research Papers Published (International Journal):**

S. N.	Articles in International Journals
1	<p><b>Nanocrystalline Titanium Dioxide Dipped with AlCl<sub>3</sub> as a Humidity Sensors</b>  R. B. Butley, R. V. Joat, G. T. Lamdhade, K. B. Raulkar, <a href="#">A. O. Chauhan</a>  <b>International Journal of Scientific Research in Science and Technology (IJSRST)</b>, 13 (1), 2023, Pages 23-28  (Peer Reviewed)</p>
2	<p><b>Synthesis and Photoluminescence study of LaF<sub>3</sub>:Gd<sup>3+</sup> phosphors for Phototherapy Application</b>  <a href="#">A. O. Chauhan</a>, C. B. Palan, N. S. Sawala, S. K. Omanwar  <b>Journal of Emerging Technology and Innovative Research (JETIR)</b>, 9 (5), 2022, Pages 383 – 387  (Peer Reviewed)</p>
3	<p><b>Synthesis and Luminescence Properties of MSO<sub>4</sub>:Eu (M = Ca, Ba) phosphors for Radiation Dosimetry</b>  C. B. Palan, <a href="#">A. O. Chauhan</a>, N. S. Sawala, S. K. Omanwar  <b>Journal of Emerging Technology and Innovative Research (JETIR)</b>, 9 (5), 2022, Pages 383 – 387  (Peer Reviewed)</p>
4	<p><b>Synthesis and Photoluminescence Properties of Eu<sup>3+</sup> ions doped LiBaPO<sub>4</sub> phosphors</b>  N. S. Sawala, S. R. Jaiswal, <a href="#">A. O. Chauhan</a>, C. B. Palan, S. K. Omanwar  <b>Journal of Emerging Technology and Innovative Research (JETIR)</b>, 9 (5), 2022, Pages 331 – 339  (Peer Reviewed)</p>
5	<p><b>Synthesis and Characterization of LiBaB<sub>9</sub>O<sub>16</sub>:Gd<sup>3+</sup> Phosphor by Recrystallization Method</b>  C. B. Palan, <a href="#">A. O. Chauhan</a>, N. S. Sawala, S. K. Omanwar  <b>International Journal of Scientific Research in Science and technology (IJSRST)</b>, 9 (13), 2022, Pages 264 – 268  (Peer Reviewed)</p>
6	<p><b>Synthesis and Photoluminescence study of Gd<sup>3+</sup> doped YP<sub>3</sub>O<sub>9</sub> phosphor prepared by Citric sol-gel method.</b>  A. A. Sharma, <a href="#">A. O Chauhan</a>, C. B. Palan, S. K. Omanwar  <b>International Journal of Scientific Research in Science and Technology (IJSRST)</b>, 8 (1), 2021, Pages 65 – 69.  (Peer Reviewed)</p>
7	<p><b>Optically Stimulated Luminescence (OSL) properties of CaF<sub>2</sub>: Ce<sup>3+</sup> phosphor for radiation dosimetry.</b>  C. B. Palan, <a href="#">A. O. Chauhan</a>, S. R. Jaiswal, S. K. Omanwar  <b>International Journal of Scientific Research in Science and Technology (IJSRST)</b>, 8 (1), 2021, Pages 133 – 136.  (Peer Reviewed)</p>
8	<p><b>Synthesis and Characterization of LiBaB<sub>9</sub>O<sub>15</sub>:Gd<sup>3+</sup> Phosphor by Recrystallization Method.</b>  N. D. Kherde, <a href="#">A. O. Chauhan</a>, P. A. Nagpure, S. K. Omanwar  <b>International Journal of Scientific Research in Science and technology (IJSRST)</b>, 9 (13), 2022, Pages 139 – 144  (Peer Reviewed)</p>
9	<p><b>Application of CO<sub>2</sub> Gas Sensing Properties of P-Type Fe Doped SnO<sub>2</sub> Sensor.</b>  K. B. Raulkar, T. S. Wasnik, R. B. Butley, R. V. Joat, <a href="#">A. O. Chauhan</a>, G. T. Lamdhade, C. C. Jadhao, R. M. Agrawal  <b>UPA National Peer-Reviewed e-journal Special Issue-3, 2020</b>, ISSN: 2455-4375, 194-201  (Peer Reviewed)</p>

10	<p><b>A novel Gd<sup>3+</sup>-Pb<sup>2+</sup> doped LiSrPO<sub>4</sub> phosphor for phototherapy lamp applications.</b>  <a href="#">A. O. Chauhan</a>, A. B. Gawande, S. K. Omanwar  <b>Journal of Inorganic and Organometallic Polymers and Materials</b>, 26, 2016, Pages 1023 – 1027. ISSN: 1574-1443  <b>(Impact factor: 1.637)</b></p>
11	<p><b>Combustion synthesis and photoluminescence study of UV emitting LaBaB<sub>9</sub>O<sub>16</sub> phosphors</b>  <a href="#">A. O. Chauhan</a>, C. B. Palan, N. S. Sawala, S. K. Omanwar  <b>Journal of Materials Science: Materials in Electronics</b>, Volume 28, 2017, Pages 7643 – 7649.  <b>(Impact factor: 2.195)</b></p>
12	<p><b>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</b>  <a href="#">A. O. Chauhan</a>, N. S. Bajaj, S. K. Omanwar  <b>Bulletin of Materials Science-Springer</b> Volume 40 Issue 1 February 2017 pp 1-6  <b>(Impact factor: 1.264)</b></p>
13	<p><b>Narrow band UVB emitting phosphor LaPO<sub>4</sub>: Gd<sup>3+</sup> for phototherapy lamp</b>  <a href="#">A. O. Chauhan</a>, A. B. Gawande, S. K. Omanwar  <b>Optik-International Journal for Light and Electron Optics</b>, Volume 127, Issue 16, 25 April 2016, Pages 6647-6652. ISSN: 0030-4026  <b>(Impact factor: 1.914)</b></p>
14	<p><b>Photoluminescence Properties of Mixed Fuel Combustion Synthesized Ce<sup>3+</sup> ions Doped Y<sub>3</sub>Al<sub>5</sub>O<sub>12</sub> phosphor</b>  N. S. Sawala, C. B. Palan, <a href="#">A. O. Chauhan</a> and S. K. Omanwar  <b>Optik- Elsevier International Journal for Light and Electron Optics, Elsevier</b> Volume 127, Issue 12, 8 March 2016, Pages 5120–5123. ISSN: 0030-4026  <b>(Impact factor: 1.914)</b></p>
15	<p><b>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</b>  C. B. Palan, <a href="#">A O Chauhan</a>, N. S. Sawala, N. S. Bajaj, S. K. Omanwar  <b>Optik- Elsevier International Journal for Light and Electron Optics</b> Volume 127, Issue 16, August 2016, Pages 6419 - 6423. ISSN: 0030-4026  <b>(Impact factor: 1.914)</b></p>
16	<p><b>Synthesis and PL study of UV emitting phosphor LiSr<sub>4</sub>(BO<sub>3</sub>)<sub>3</sub>:Pb<sup>2+</sup></b>  <a href="#">A. O. Chauhan</a>, N. S. Sawala, C. B. Palan, S. K. Omanwar  <b>International Journal of Luminescence and applications</b> Vol. 5 (4) December, 2015, pages 465-467 Journal ISSN: 2277-6367.  <b>(COSMOS Impact factor: 3.805)</b></p>
17	<p><b>Synthesis and Photoluminescence Properties of Pb<sup>2+</sup> Doped Inorganic Borate Phosphor NaSr<sub>4</sub>(BO<sub>3</sub>)<sub>3</sub></b>  <a href="#">A. O. Chauhan</a>, K. A. Koparkar, N. S. Bajaj, S. K. Omanwar  <b>AIP Conference Proceedings</b>, AIP Publishing 1728, 020470 (2016); doi.org/10.1063/1.4946521 ISSN: 0094-243X, E-ISSN: 1551-7616.</p>
18	<p><b>Synthesis and Down-Conversion Studies on Y<sub>2</sub>O<sub>3</sub>: Yb<sup>3+</sup>, Bi<sup>3+</sup> Phosphor.</b>  <a href="#">A. O. Chauhan</a>, K.A. Koparkar, N. S. Bajaj and S.K. Omanwar  <b>International Journal of Luminescence and applications</b> Vol. 5(1), February 2015. Pages.100-102 Journal ISSN: 2277-6367.  <b>(COSMOS Impact factor: 3.805)</b></p>
19	<p><b>Optical property of narrow UVB emitting phosphor NaAlO<sub>2</sub>: Gd<sup>3+</sup> prepared with solution combustion synthesis.</b>  <a href="#">A. O. Chauhan</a>, C. B. Palan, N. S. Sawala, S. K. Omanwar  <b>Research Journal of Chemical Sciences</b> (E-ISSN 2231-606X peer reviewed indexed) Volume 6 issue 5 May 2016 pages 11-13.</p>

20	<p><b>Synthesis and Luminescence characteristics of Gd<sup>3+</sup> activated LiCa<sub>4</sub>(BO<sub>3</sub>)<sub>3</sub> phosphor</b>  <a href="#">A. O. Chauhan</a>, N. S. Sawala, C. B. Palan and S. K. Omanwar  <b>Research Journal of Chemical Sciences</b> (E-ISSN 2231-606X peer reviewed indexed)  Volume 6 issue 7 July 2016 pages 12-15.</p>
21	<p><b>Thermo luminescence and Optically Stimulated Luminescence Properties of MgB<sub>4</sub>O<sub>7</sub>: Ag Phosphor</b>  C. B. Palan, <a href="#">A. O. Chauhan</a>, N. S. Sawala, N. S. Bajaj, S. K. Omanwar  <b>International Journal of Luminescence and applications</b> Vol. 5 (4) December, 2015,  pages 408-410 Journal ISSN:2277-6367.  (COSMOS Impact factor: 3.805)</p>
22	<p><b>Synthesis and luminescence properties of NaCaPO<sub>4</sub>:Eu phosphor for radiation dosimetry and solid state lighting</b>  C. B. Palan, <a href="#">A. O. Chauhan</a>, N. S. Sawala and S. K. Omanwar  <b>Research Journal of Chemical Sciences</b> (E-ISSN 2231-606X peer reviewed indexed)  Volume 6 issue 6, June (2016) pages 1-5.</p>
23	<p><b>Spectral Downshifting in Ce<sup>3+</sup>- Yb<sup>3+</sup> co-doped YBO<sub>3</sub> phosphor</b>  N. S. Sawala, <a href="#">A. O. Chauhan</a>, C. B. Palan, S. K. Omanwar  <b>International Journal of Luminescence and applications</b>. Vol. 5 (4) December, 2015,  pages 456-459, Journal ISSN: 2277-6367.  (COSMOS Impact factor: 3.805)</p>
24	<p><b>Downconversion in YVO<sub>4</sub>:Yb<sup>3+</sup> for sensitization of c-Si solar cells</b>  N. S. Sawala, C. B. Palan, <a href="#">A. O. Chauhan</a> and S. K. Omanwar  <b>Research Journal of Chemical Sciences</b> (E-ISSN 2231-606X peer reviewed indexed)  Volume 6 issue 4 April 2016 pages 36-40.</p>
25	<p><b>An Efficient Energy Transfer in Tb<sup>3+</sup>-Yb<sup>3+</sup> co-doped Y<sub>2</sub>O<sub>3</sub> phosphor</b>  N. S. Sawala, C. B. Palan, <a href="#">A. O. Chauhan</a> and S. K. Omanwar  <b>Research Journal of Chemical Sciences</b> (E-ISSN 2231-606X peer reviewed indexed)  Volume 6 issue 6, June (2016) pages 6-10.</p>

### Research Papers Published in Conference

Sr. No	Articles/Abstracts in Conferences
1	<p><b>Photoluminescence Studies of Eu (III) activated YBaB<sub>9</sub>O<sub>16</sub> phosphor</b>  <a href="#">A. O. Chauhan</a>, G. T. Lamdhade, K. B. Raulkar, R. B. Butley, C. C. Jadhao, B. H. Bhatti  <b>CONFERENCE PROCEEDINGS, UGC Sponsored National Conference on Recent Advancements in Science &amp; Technology (NCRASST), ISBN : 978-81-19931-25-5</b></p>
2	<p><b>Synthesis and Characterization of NB-UVB emitting Yttrium phosphate phosphor.</b>  <a href="#">A. O. Chauhan</a>, C. B. Palan, N. S. Sawala, S. K. Omanwar  <b>CONFERENCE PROCEEDINGS, UGC Sponsored National Conference on Recent Advancements in Science &amp; Technology (NCRASST), ISBN : 978-81-19931-25-5</b></p>
3	<p><b>Review of synthesis of nanoparticles by various methods.</b>  C. C. Jadhao, G. T. Lamdhade, K. B. Raulkar, <a href="#">A. O. Chauhan</a>, R. B. Butley  <b>CONFERENCE PROCEEDINGS, UGC Sponsored National Conference on Recent Advancements in Science &amp; Technology (NCRASST), ISBN : 978-81-19931-25-5</b></p>
4	<p><b>Synthesis and characterization of SnO<sub>2</sub> nanoparticles by Sol-gel Method.</b>  C. C. Jadhao, G. T. Lamdhade, K. B. Raulkar, <a href="#">A. O. Chauhan</a>, R. B. Butley  <b>CONFERENCE PROCEEDINGS, UGC Sponsored National Conference on Recent Advancements in Science &amp; Technology (NCRASST), ISBN : 978-81-19931-25-5</b></p>
5	<p><b>Synthesis and Photoluminescence Properties of Tb<sup>3+</sup> doped KSrPO<sub>4</sub> Phosphor.</b>  N. S. Sawala, C.B. Palan, <a href="#">A. O. Chauhan</a>, S.K. Omanwar  <b>CONFERENCE PROCEEDINGS, UGC Sponsored National Conference on Recent Advancements in Science &amp; Technology (NCRASST), ISBN : 978-81-19931-25-5</b></p>
6	<p><b>Synthesis and Thermoluminescence (TL) Properties of NaLi<sub>2</sub>PO<sub>4</sub>:Ce Phosphor for Radiation dosimetry.</b></p>

	V. S. Punse, C. B. Palan, P. A. Nagpure, <a href="#">A. O. Chauhan</a> , Bhushan Dhabekar S. K. Omanwar <b>CONFERENCE PROCEEDINGS, UGC Sponsored National Conference on Recent Advancements in Science &amp; Technology (NCRST), ISBN : 978-81-19931-25-5</b>
7	<b>Synthesis and Optically Stimulated Luminescence (OSL) Properties of CaSiO<sub>3</sub>: Ce, Al Phosphor for Radiation dosimetry</b> C. B. Palan, <a href="#">A. O. Chauhan</a> , N. S. Sawala, S. K. Omanwar <b>CONFERENCE PROCEEDINGS, UGC Sponsored National Conference on Recent Advancements in Science &amp; Technology (NCRST), ISBN : 978-81-19931-25-5</b>
8	<b>Advances and Perspectives in Nanotechnology Short Review.</b> R. B. Butley, R. V. Joat, G. T. Lamdhade, K. B. Raulkar, <a href="#">A. O. Chauhan</a> , C. C. Jadhao, B. H. Bhatti <b>CONFERENCE PROCEEDINGS, UGC Sponsored National Conference on Recent Advancements in Science &amp; Technology (NCRST), ISBN : 978-81-19931-25-5</b>
9	<b>Humidity Sensors: AlCl<sub>3</sub>-Dipped Nanocrystalline Magnesium Oxide.</b> R. B. Butley, R. V. Joat, G. T. Lamdhade, K. B. Raulkar, <a href="#">A. O. Chauhan</a> , C. C. Jadhao, B. H. Bhatti <b>CONFERENCE PROCEEDINGS, UGC Sponsored National Conference on Recent Advancements in Science &amp; Technology (NCRST), ISBN : 978-81-19931-25-5</b>
10	<b>Photovoltaic applications of SnO<sub>2</sub> gas sensor.</b> B. H. Bhatti, K. B. Raulkar, G. T. Lamdhade, <a href="#">A. O. Chauhan</a> , R. B. Butley, C. C. Jadhao, A. B. More <b>CONFERENCE PROCEEDINGS, UGC Sponsored National Conference on Recent Advancements in Science &amp; Technology (NCRST), ISBN : 978-81-19931-25-5</b>
11	<b>Synthesis and Photoluminescence study of Gd<sup>3+</sup> doped YP<sub>3</sub>O<sub>9</sub> phosphor prepared by Citric sol-gel method.</b> A. A. Sharma, <a href="#">A. O. Chauhan</a> , C. B. Palan, S. K. Omanwar <b>International Journal of Scientific Research in Science and Technology (IJSRST), 8 (1), 2021, Pages 65 – 69.</b> <b>(Peer Reviewed)</b>
12	<b>Optically Stimulated Luminescence (OSL) properties of CaF<sub>2</sub>: Ce<sup>3+</sup> phosphor for radiation dosimetry.</b> C. B. Palan, <a href="#">A. O. Chauhan</a> , S. R. Jaiswal, S. K. Omanwar <b>International Journal of Scientific Research in Science and Technology (IJSRST), 8 (1), 2021, Pages 133 – 136.</b> <b>(Peer Reviewed)</b>
13	<b>Synthesis and Down-Conversion Studies on Y<sub>2</sub>O<sub>3</sub>: Yb<sup>3+</sup>, Bi<sup>3+</sup> Phosphor.</b> <a href="#">A. O. Chauhan</a> , K.A. Koparkar, N. S. Bajaj and S.K. Omanwar <b>Abstract Proc. of 5th International Conference on Luminescence and its Applications (ICLA 2015) (ISBN: 978-82570-48-6) PES University, Bangalore (Feb. 9-12, 2015) P. N. 85.</b>
14	<b>Synthesis and Luminescence characteristics of Gd<sup>3+</sup> activated LiCa<sub>4</sub>(BO<sub>3</sub>)<sub>3</sub> phosphor</b> <a href="#">A. O. Chauhan</a> , N. S. Sawala, C. B. Palan and S. K. Omanwar <b>Abstract Proc. of National Conference on Chemical Sciences: Emerging Scenario &amp; Challenges (NCCS-2016) Department of Chemistry, S G B A U Amravati. (Jan. 29-30, 2016).</b>
15	<b>An Efficient Energy Transfer in Tb<sup>3+</sup>-Yb<sup>3+</sup> co-doped Y<sub>2</sub>O<sub>3</sub> phosphor</b> N. S. Sawala, <a href="#">A. O. Chauhan</a> , C. B. Palan and S. K. Omanwar <b>Abstract Proc. of National Conference on Chemical Sciences: Emerging Scenario &amp; Challenges (NCCS-2016) Department of Chemistry, S G B A U Amravati. (2016).</b>
16	<b>Downconversion in YVO<sub>4</sub>:Yb<sup>3+</sup> for sensitization of c-Si solar cells</b> N. S. Sawala, C. B. Palan, <a href="#">A. O. Chauhan</a> and S. K. Omanwar <b>Abstract Proc. of National Conference on Chemical Sciences: Emerging Scenario &amp; Challenges (NCCS-2016) Department of Chemistry, S G B A U Amravati. (2016).</b>
17	<b>Optical property of narrow UVB emitting phosphor NaAlO<sub>2</sub>: Gd<sup>3+</sup> prepared with solution combustion synthesis</b>

	<p><a href="#">A. O. Chauhan</a>, C. B. Palan, N. S. Sawala, S. K. Omanwar  <b>Abstract Proc. of National Conference on Chemical Sciences: Emerging Scenario &amp; Challenges (NCCS-2016)</b> Department of Chemistry, S G B A U Amravati. (2016).</p>
18	<p><b>Synthesis and luminescence properties of NaCaPO<sub>4</sub>:Eu phosphor for radiation dosimetry and solid state lighting</b>  C. B. Palan, <a href="#">A O Chauhan</a>, N S Sawala, S K Omanwar  <b>Abstract Proc. of National Conference on Chemical Sciences: Emerging Scenario &amp; Challenges (NCCS-2016)</b> Department of Chemistry, S G B A U Amravati. (2016).</p>
19	<p><b>Photoluminescence study of Bi<sup>3+</sup> doped YAG phosphor for SSL application</b>  N. S. Sawala, <a href="#">A. O. Chauhan</a>, C. B. Palan and S. K. Omanwar  <b>Abstract Proc. of National Conference on Luminescence and its Applications (NCLA 2017)</b> (ISBN: 978-93-82570-85-1). Indian Institute of Chemical Technology (IICT), Hyderabad (Jan. 9-11, 2017) P.N. 118-118.</p>
20	<p><b>Effect of Al on luminescence properties of CaSiO<sub>3</sub>: Ce phosphor for radiation dosimetry</b>  C. B. Palan, N. S. Sawala, <a href="#">A. O. Chauhan</a>, S. K. Omanwar  <b>Abstract Proc. of National Conference on Chemical Sciences: Emerging Scenario &amp; Challenges (NCCS-2016)</b> Department of Chemistry, S G B A U Amravati. (Jan. 29-30, 2016).</p>
21	<p><b>Synthesis and optical study of Eu<sup>3+</sup> activated SrB<sub>4</sub>O<sub>7</sub> phosphor</b>  S.P. Bhagat, <a href="#">A.O. Chauhan</a>, S.K. Omanwar  <b>Abstract Proc. of National Conference on Luminescence and its Applications (NCLA 2017)</b> (ISBN: 978-93-82570-85-1). Indian Institute of Chemical Technology (IICT), Hyderabad (Jan. 9-11, 2017).</p>
22	<p><b>Synthesis and Photoluminescence properties of UVB emitting CaB<sub>4</sub>O<sub>7</sub>:Gd<sup>3+</sup> phosphor</b>  <a href="#">A.O. Chauhan</a>, A. B. Gawande, S.K. Omanwar  <b>Abstract Proc. of National Conference on Luminescence and its Applications (NCLA 2017)</b> (ISBN: 978-93-82570-85-1). Indian Institute of Chemical Technology (IICT), Hyderabad (Jan. 9-11, 2017).</p>
23	<p><b>Synthesis and Photoluminescence study of Gd<sup>3+</sup> activated phosphor NaBa<sub>4</sub>(BO<sub>3</sub>)<sub>3</sub></b>  <a href="#">A. O. Chauhan</a>, N. S. Sawala, C. B. Palan, S. K. Omanwar  <b>Abstract Proc. of National Conference on Luminescence and its Applications (NCLA 2017)</b> (ISBN: 978-93-82570-85-1). Indian Institute of Chemical Technology (IICT), Hyderabad (Jan. 9-11, 2017).</p>
24	<p><b>Photoluminescence study of Bi<sup>3+</sup> doped YAG phosphor for SSL application</b>  N. S. Sawala, <a href="#">A. O. Chauhan</a>, C. B. Palan and S. K. Omanwar  <b>Abstract Proc. of National Conference on Luminescence and its Applications (NCLA 2017)</b> (ISBN: 978-93-82570-85-1). Indian Institute of Chemical Technology (IICT), Hyderabad (Jan. 9-11, 2017).</p>
25	<p><b>Synthesis and Photoluminescence Properties of Pb<sup>2+</sup> Doped Inorganic Borate Phosphor NaSr<sub>4</sub>(BO<sub>3</sub>)<sub>3</sub>.</b>  <a href="#">A. O. Chauhan</a>, K. A. Koparkar, N. S. Bajaj, S. K. Omanwar  <b>Abstract Proc. of International conference on Condensed matter &amp; Applied Physics, ICC 2015</b>, Govt. College of Engineering, Bikaner, Rajasthan (Oct. 30-31, 2015) P. N. 358.</p>
26	<p><b>Synthesis and PL study of UV emitting phosphor LiSr<sub>4</sub>(BO<sub>3</sub>)<sub>3</sub>:Pb<sup>2+</sup></b>  <a href="#">A. O. Chauhan</a>, N. S. Sawala, C. B. Palan, S. K. Omanwar  <b>International Journal of Luminescence and applications</b> Vol. 5 (4) December, 2015, pages 465-467 Journal ISSN: 2277-6367.</p>
27	<p><b>Sol-Gel Synthesis and TL/OSL Properties of NaCaPO<sub>4</sub>:Ce Phosphor for Radiation Dosimetry</b>  C.B. Palan, <a href="#">A.O. Chauhan</a>, N.S. Sawala and S.K. Omanwar  <b>National Conference on Luminescence and its Applications-2017 (NCLA-2017)</b>, IICT Hyderabad ISBN No.978-93-82570-85-1 (2017). <b>ID-1134</b></p>
28	<p><b>Photoluminescence Study of Bi<sup>3+</sup> Doped YAG Phosphor for SSL Application</b>  N.S. Sawala, <a href="#">A.O. Chauhan</a>, C.B. Palan and S.K. Omanwar  <b>National Conference on Luminescence and its Applications-2017 (NCLA-2017)</b>, IICT Hyderabad ISBN No.978-93-82570-85-1 (2017). <b>ID-1119</b></p>
29	<p><b>Synthesis and Photoluminescence Study of Gd<sup>3+</sup> Activated Phosphor NaBa<sub>4</sub>(BO<sub>3</sub>)<sub>3</sub></b>  <a href="#">A.O. Chauhan</a>, N.S. Sawala, C.B. Palan and S.K. Omanwar  <b>National Conference on Luminescence and its Applications-2017 (NCLA-2017)</b>, IICT Hyderabad ISBN No.978-93-82570-85-1 (2017). <b>ID-1127</b></p>

30	<p><b>Preliminary TL/OSL Properties of SrB<sub>4</sub>O<sub>7</sub>:Eu<sup>2+</sup> Phosphor for Environmental Monitoring</b>  C.B. Palan, <a href="#">A.O. Chauhan</a>, N.S. Sawala, and S.K. Omanwar  NCLA-2018 February 14-16, 2018, CSIR-NIIST, Trivandrum National Institute for Interdisciplinary Science and Technology Trivandrum Luminescence Society of India (LSI) ISBN 978-93 (2018).</p>
31	<p><b>Photoluminescence Study of Eu<sup>3+</sup> Doped Y<sub>2</sub>WO<sub>6</sub> phosphor</b>  <a href="#">A.O. Chauhan</a>, N.S. Sawala, C.B. Palan and S.K. Omanwar  NCLA-2018 February 14-16, 2018, CSIR-NIIST, Trivandrum National Institute for Interdisciplinary Science and Technology Trivandrum Luminescence Society of India (LSI) ISBN 978-93 (2018).</p>
32	<p><b>Narrowband UVB emitting KSrPO<sub>4</sub>:Gd<sup>3+</sup> phosphor for phototherapy applications</b>  <a href="#">A.O.Chauhan</a>, N.S.Sawala , C.B.Palan &amp; S.K.Omanwar  6<sup>th</sup> International Conference on Luminescence and its Applications January 7-10, PP.259 (2019).  School Of Studies in Physics and Astrophysics Pt. Ravishankar Shukla University And Luminescence Society of India, Department of Physics, National Institute of Technology Raipur-492010, Chattisgarh, India ID-P 140</p>
33	<p><b>Synthesis and Photoluminescence properties of KCa<sub>4</sub>(BO<sub>3</sub>)<sub>3</sub>:Gd<sup>3+</sup></b>  <a href="#">A.O.Chauhan</a>, N.S.Sawala, C.B.Palan &amp; S.K.Omanwar  6<sup>th</sup> International Conference on Luminescence and its Applications January 7-10, PP.259 (2019).  School Of Studies in Physics and Astrophysics Pt. Ravishankar Shukla University And Luminescence Society of India, Department of Physics, National Institute of Technology Raipur-492010, Chattisgarh, India ID-P 141</p>
34	<p><b>Synthesis and Luminescence properties of Tb<sup>3+</sup> doped LiMgPO<sub>4</sub> phosphor for radiation dosimetry.</b>  C.B.Palan, <a href="#">A.O.Chauhan</a>, N.S.Sawala &amp; S.K.Omanwar  6<sup>th</sup> International Conference on Luminescence and its Applications January 7-10, PP.259 (2019).  School Of Studies in Physics and Astrophysics Pt. Ravishankar Shukla University And Luminescence Society of India, Department of Physics, National Institute of Technology Raipur-492010, Chattisgarh, India ID-P 56</p>
35	<p><b>TL/OSL properties of Ce<sup>3+</sup> activated NaLi<sub>2</sub>PO<sub>4</sub> phosphor for radiation dosimetry</b>  C.B.Palan, <a href="#">A.O.Chauhan</a>, N.S.Sawala &amp; S.K.Omanwar  6<sup>th</sup> International Conference on Luminescence and its Applications January 7-10, PP.259 (2019).  School Of Studies in Physics and Astrophysics Pt. Ravishankar Shukla University And Luminescence Society of India, Department of Physics, National Institute of Technology Raipur-492010, Chattisgarh, India ID-P 57</p>
36	<p><b>Synthesis and Photoluminescence study of Ce<sup>3+</sup> doped SrLaAl<sub>3</sub>O<sub>7</sub> Phosphor</b>  N.S.Sawala , <a href="#">A.O.Chauhan</a>, C.B.Palan &amp; S.K.Omanwar  6<sup>th</sup> International Conference on Luminescence and its Applications January 7-10, PP.259 (2019).  School Of Studies in Physics and Astrophysics Pt. Ravishankar Shukla University And Luminescence Society of India, Department of Physics, National Institute of Technology Raipur-492010, Chattisgarh, India ID-P 138</p>
37	<p><b>Photoluminescence study of Tb<sup>3+</sup>/Eu<sup>3+</sup> doped NaCaPO<sub>4</sub> phosphor</b>  N.S.Sawala , <a href="#">A.O.Chauhan</a>, C.B.Palan &amp; S.K.Omanwar  6<sup>th</sup> International Conference on Luminescence and its Applications January 7-10, PP.259 (2019).  School Of Studies in Physics and Astrophysics Pt. Ravishankar Shukla University And Luminescence Society of India, Department of Physics, National Institute of Technology Raipur-492010, Chattisgarh, India ID-P 139</p>