


## Updated Curriculum Vitae (C. V.) of Professor P. D. Sahare

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Designation	<b>PROFESSOR</b>				
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Web-Page	<a href="http://www.du.ac.in/people">www.du.ac.in/people</a>				
<b>Educational Qualifications</b>					
Degree		Institution		Year	
Ph.D.		RTM NAGPUR UNIVERSITY NAGPUR		1990	
M.Phil. / M.Tech.		RTM NAGPUR UNIVERSITY NAGPUR		1987	
PG		RTM NAGPUR UNIVERSITY NAGPUR		1985	
UG		RTM NAGPUR UNIVERSITY NAGPUR		1983	
Any other qualification		Nagpur Divisional Board, Nagpur (XII <sup>th</sup> Standard)		1979	
<b>Career Profile</b>					
<b>Department of Physics, Nagpur University, Nagpur</b>		<b>Lecturer</b>	<b>1986-87</b>	<b>Teaching and Research</b>	
<b>University of Massachusetts, Amherst, USA</b>		<b>Post-Doctoral Fellow</b>	<b>1990-91</b>	<b>Research</b>	
<b>Department of Physics, Nagpur University Nagpur</b>		<b>CSIR Research Associate</b>	<b>1991-92</b>	<b>Research and Teaching</b>	
<b>RKN College of Engineering, Nagpur</b>		<b>Lecturer</b>	<b>1992-93</b>	<b>Teaching</b>	
<b>University of Pune</b>		<b>Professor</b>	<b>2005-07</b>	<b>Teaching and Research</b>	
<b>University of Delhi</b>		<b>Professor</b>	<b>Since 1993</b>	<b>Teaching and Research</b>	
<b>Administrative Assignments</b>					
<b>Member of Equal opportunity Cell</b>					
<b>Areas of Interest / Specialization</b>					
<b>Experimental: Spectroscopy, Luminescence, Radiation dosimetry, Laser materials, Detectors and optical sensors</b>					
<b>Subjects Taught</b>					
<b>Experimental Methods in Physics, Electronics, Atoms and Molecules, Optics, Lasers, Nuclear Physics</b>					
<b>Research Guidance</b>					
<i>List against each head (If applicable)</i>					
1. <i>Supervision of awarded Doctoral Thesis</i>					
I) <i>S R Dhakate</i>					
II) <i>Anant Pandey</i>					
III) <i>Vijay Kumar Sharma</i>					
IV) <i>Numan Salah</i>					
V) <i>Ranju Ranjan</i>					
VI) <i>S P Lochab</i>					
VII) <i>J S Bakare</i>					
viii) <i>Surender Kumar</i>					
ix) <i>Nandkumar Mandlik</i>					
x) <i>Surbhi Kumari</i>					
xi) <i>Geeta Rani</i>					

xii) Manveer Singh

2. Supervision of Doctoral Thesis, under progress

viii) Sudhisht Kumar

ix) Neyaz Ali

x) Martina Saran

xi) Bhuli Dhaker

3. Supervision of awarded M. Phil. dissertations **10**

(at RTM Nagpur University and at University of Pune)

4. Supervision of M. Phil dissertations, under progress

Not any (The course in Physics is not running at Delhi University)

### Publications Profile

1. Books/Monographs (Authored/Edited)

One book entitled "TLD Nanophosphors: Synthesis, Characterization and Applications" under review and publication

Nanotechnology and Laser Induced Plasma, Proceedings, IRNANO-2009.

Nanomaterials and Nanotechnology, Eds. A. Tiwari and P. D. Sahare, VBRI Press, 2011, ISBN: 978-81-920068-3-3.

2. Research papers published in Refereed/Peer Reviewed Journals in last five years

Luminescence Characteristics of  $K_2Ca_2(SO_4)_3$ : Eu, Tb phosphor, Radiat. Eff. Defects Solids, 159 (2004) 321

Thermoluminescence and photoluminescence characteristics of sol-gel prepared pure and europium doped silica glasses J. Phys. D: Appl. Phys., 37 (2004) 842

Pyroelectroluminescence in  $LiNaSO_4$ : Eu (particle size effect), J. Phys. D: Appl. Phys., 37 (2004) 2742  
Modifications in TL characteristics of  $K_2Ca_2(SO_4)_3$ : Eu by 7Li MeV ion beam, J. Phys. D: Appl. Phys. 38 (2005) 3995

TL and PL in  $BaSr(SO_4)_2$ :Eu mixed sulphate, phys. stat. solidi (a), 203 (2006) 898

The influence of high-energy 7Li ions on the TL response and glow curve structure of  $CaSO_4$ :Dy J. Phys. D: Appl. Phys., 39 (2006) 2684

Thermoluminescence and photoluminescence study of  $Ba_{0.97}Ca_{0.03}SO_4$ : Eu, J. Phys. D: Appl. Phys., 39 (2006) 1786

Thermoluminescence and photoluminescence of  $LiNaSO_4$ :Eu irradiated with 24 and 48MeV 7Li ion beam, J. Lum., 121 (2006) 497

TL and PL studies on  $CaSO_4$ : Dy nanoparticles, Radiat. Measur., 41 (2006) 40

TL, PL and energy transfer in  $K_2Ca_2(SO_4)_3$ :  $Eu^{2+}$ ,  $Ce^{3+}$ , Radiat. Measur., 41 (2006) 665

Fluorescence quenching of 7-Diethylamino-4-trifluoromethyl Coumarin in presence of acetone, Proc. SPIE 6405 (2006) 640514

*Nanocrystalline MgB<sub>4</sub>O<sub>7</sub>: Dy for high dose measurement of gamma radiation, phys. stat. solidi (a), 204 (2007) 2416*

*Effect of high-energy <sup>7</sup>Li<sup>2+</sup> ions on the TL behavior of LiF: Mg,Cu,P detectors Radiat. Measur., 42 (2007) 1294*

*K<sub>3</sub>Na(SO<sub>4</sub>)<sub>2</sub>:Eu nanoparticles for high dose of ionizing radiation, P D Sahare, J. Phys. D: Appl. Phys., 40 (2007) 759*

*Thermoluminescence and photoluminescence study of nanocrystalline Ba<sub>0.97</sub>Ca<sub>0.03</sub>SO<sub>4</sub> : Eu J. Phys. D: Appl. Phys., 40 (2007) 1343*

*Thermoluminescence of Ba<sub>0.97</sub>Ca<sub>0.03</sub>SO<sub>4</sub>:Eu irradiated with 48 MeV <sup>7</sup>Li ion beam, NIMB, 254 (2007) 231*

*Thermoluminescence of nanocrystalline LiF:Mg, Cu, P, J. Lum., 124 (2007) 357*

*A novel optical sensor for ammonia using a laser grade dye—Stilbene 3, J. Phys. D: Appl. Phys., 40 (2007) 7166*

*Fluorescence quenching of 3-methyl 7-hydroxyl Coumarin in presence of acetone, Spectrochim. Acta: A, 66 (2007) 111*

*Energy transfer studies in binary dye solution mixtures: Acriflavine + Rhodamine 6G and Acriflavine + Rhodamine B, Spectrochimica Acta: A*

*Hydrogen peroxide sensor using laser grade dye Rhodamine B, Proc. SPIE 6830 (2007) 68301D*

*Thermoluminescence of BaSO<sub>4</sub>:Eu irradiated with 46 MeV Li<sup>3+</sup> and 150 MeV Ag<sup>12+</sup> ions, J. Phys. D: Appl. Phys., 41 (2008) 85408*

*Synthesis and Luminescence Properties of Nanocrystalline LiF:Mg,Cu,P Phosphor, J. Lum. 130 (2010) 258*

*Nanocrystalline MgB<sub>4</sub>O<sub>7</sub>: Dy for high dose measurement of gamma radiation, S P Lochab, A Pandey, **P D Sahare**, R S Chauhan, Numan Salah, Ranju Ranjan, phys. stat. solidi (a), 2007, 204, 2416.*

*Effect of high-energy <sup>7</sup>Li<sup>2+</sup> ions on the TL behavior of LiF: Mg,Cu,P detectors, Numan Salah, S P Lochab, D Kanjilal, **P D Sahare** and V E Aleynikov, Radiat. Measur., 2007, 42, 1294.*

*TL and PL in BaSr(SO<sub>4</sub>)<sub>2</sub>:Eu mixed sulphate, Numan Salah, **P D Sahare**, Pratik Kumar, phys. stat. solidi (a), 2006, 203, 898.*

*Thermoluminescence and photoluminescence of LiNaSO<sub>4</sub>:Eu irradiated with 24 and 48MeV <sup>7</sup>Li ion beam, Numan Salah, **P D Sahare**, Awadhesh Prasad, J. Lum., 121 ( 2006) 497*

*Thermoluminescence and photoluminescence study of Ba<sub>0.97</sub>Ca<sub>0.03</sub>SO<sub>4</sub> : Eu, S P Lochab, **P D Sahare**, R S Chauhan, Numan Salah and A Pandey, J. Phys. D: Appl. Phys., 2006, 39, 1786.*

*The influence of high-energy <sup>7</sup>Li ions on the TL response and glow curve structure of nanocrystalline CaSO<sub>4</sub>:Dy, Numan Salah and **P D Sahare**, J. Phys. D: Appl. Phys., 2006, 39, 2684.*

*TL and PL studies on CaSO<sub>4</sub>: Dy nanoparticles, Numan Salah, **P D Sahare**, S P Lochab, Pratik Kumar, Radiat. Measur., 41 (2006) 40.*

*TL, PL and energy transfer in K<sub>2</sub>Ca<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>: Eu<sup>2+</sup>, Ce<sup>3+</sup>, Numan Salah and **P D Sahare**, Radiat. Measur., 41 (2006) 665.*

*K<sub>3</sub>Na(SO<sub>4</sub>)<sub>2</sub>:Eu nanoparticles for high dose of ionizing radiation, P D Sahare, Ranju Ranjan, Numan Salah and S P Lochab, J. Phys. D: Appl. Phys., 2007, 40, 759.*

*Thermoluminescence and photoluminescence study of nanocrystalline Ba<sub>0.97</sub>Ca<sub>0.03</sub>SO<sub>4</sub>:Eu, S P Lochab, P D Sahare, R S Chauhan, Numan Salah, Ranju Ranjan and A Pandey, J. Phys. D: Appl. Phys., 2007, 40 1343.*

*Thermoluminescence of Ba<sub>0.97</sub>Ca<sub>0.03</sub>SO<sub>4</sub>:Eu irradiated with 48 MeV <sup>7</sup>Li ion beam, S P Lochab, Numan Salah, P D Sahare, R S Chauhan and Ranju Ranjan, NIMB, 2007, 254, 231.*

*Thermoluminescence of nanocrystalline LiF:Mg, Cu, P, Numan Salah, P D Sahare, A A Rupasov, J. Lum., 2007, 124, 357*

*A novel optical sensor for ammonia using a laser grade dye—Stilbene 3, P D Sahare and Amitansu Pattanaik, J. Phys. D: Appl. Phys., 2007, 40, 7166*

*Fluorescence quenching of 3-methyl 7-hydroxyl Coumarin in presence of acetone, Vijay Kumar Sharma, D. Mohan and P D Sahare, Spectrochim. Acta: A, 2007, 66, 111.*

*Energy transfer studies in binary dye solution mixtures: Acriflavine + Rhodamine 6G and Acriflavine + Rhodamine B, P D Sahare, Vijay K. Sharma, D. Mohan and A.A. Rupasov, Spectrochimica Acta: A, doi:10.1016/j.saa.2007.07.003, available online from 10 July 2007.*

*An approach to produce single and double layer graphene from re-exfoliation of expanded graphite, CARBON, 49 (2011)*

*Photoluminescence of Cu doped sponge-like porous ZnO nanoparticles synthesized via chemical route, AIP Conf. Proc. 1393 (2011) 63, doi:10.1063/1.3653610.*

*Novel nanostructured zinc oxide ammonia gas sensor, AIP Conf. Proc. 1393 (2011) 219, doi:10.1063/1.3653688.*

*Synthesis and Luminescent Properties of Li-doped ZnS Nanostructures by Chemical Precipitation Method, AIP Conf. Proc., 1393 (2011) 253.*

*Effect of Surface Defects on Green Luminescence from ZnO Nanoparticles, AIP Conf. Proc. 1393 (2011) 159, doi: 10.1063/1.3653658.*

*Sensitization Of Mesoporous Silica Nanoparticles (MSNs) By Laser Grade Dye Acriflavin, Adv. Mater.Lett., DOI:10.5185/amlett.2012.icnano.172.*

*Photoluminescence Study of Laser Grade POPOP Dye Incorporated into MCM-41, Adv. Porous Mater., 1 (2012) 1.*

*Gas sensing behavior of Fluorescein sodium impregnated MCM-41 for Sulphur dioxide, Sensor lett. 11 (2013) 526, doi:10.1166/sl.2013.2830.*

*Nd doped ZnO as a multifunctional material, J. Rare Earths, 30 (2012) 761, DOI: 10.1016/S1002-0721(12)60126-4*

*Effects of annealing on the surface defects of zinc oxide nanoparticles, Nano, 7 (2012) 1250022, DOI: 10.1142/S1793292012500221*

*Thermoluminescence and Photoluminescence properties of K<sub>2</sub>Ca<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>:Cu nanophosphor for gamma radiation dosimetry, Ind. J. Phys. Appl. Phys., 50 (2012) 859.*

*A new approach to produce single and double layer graphene from re-exfoliation of expanded graphite, S.R. Dhakate, N. Chauhan, S. Sharma, J. Tawale, S. Singh, P.D. Sahare, R.B. Mathur, Carbon, 49 (2011) 1946.*

*Fluorescence quenching of laser grade dye coumarin 440 in presence of hydrogen peroxide, Ind. J. Phys. 2011, 85, 1775*

*Thermoluminescence and Photoluminescence of CaSO<sub>4</sub>:Dy Nanophosphor for 6 MeV Energy electron Dosimetry, Radiat. Proct. Environ. 34 (2011) 185, DOI:10.4103/0972-0464.101716.*

*Thermoluminescence study of K<sub>2</sub>Ca<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>:Cu nanophosphor for gamma ray dosimetry, NIMB, DOI:10.1016/j.nimb.2013.05.073*

*Effect of phase transition and particle size on thermoluminescence characteristics of nanocrystalline K<sub>2</sub>Ca<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>:Cu<sup>+</sup> phosphor, Radiat. Measur., 47 (2012) 108, DOI: 10.1016/j.radmeas.2012.10.003*

*Thermoluminescence and Photoluminescence properties of K<sub>2</sub>Ca<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>: Cu nanophosphor for gamma radiation dosimetry, Ind. J. Phys. Appl. Phys., 50 (2012) 859.*

*High Energy Radiations Dosimetry in the Space, Editorial, J. Astrophys Arospace Technol 1 (2012) 1*

*Preparation and characterization of short length ZnO nanorods and ZnO@ZnS core-shell nanostructures, Nano Commun. Netw. 3 (2012) 197, doi:10.1016/j.nancom.2012.09.003*

*Elucidation of Mg<sup>2+</sup> binding activity of adenylate kinase from Mycobacterium tuberculosis H<sub>37</sub>Rv using fluorescence studies, Biotechnol Appl Biochem, 59 (2012) 429, DOI: 10.1002/bab.1043.*

*Effect of phase transition and particle size on thermoluminescence characteristics of nanocrystalline K<sub>2</sub>Ca<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>:Cu<sup>+</sup> phosphor, Radiat. Measur. 47 (2012) 1083*

*Observation of band gap and surface defects of ZnO nanoparticles synthesized via hydrothermal route at different reaction temperature, Opt. Commun. 285 (2012) 5210, DOI: 10.1016/j.optcom.2012.07.125*

*Redox reactions in Cu-activated nanocrystalline LiF TLD phosphor, NIM B, 289 (2012) 59, DOI: 10.1016/j.nimb.2012.08.003*

*Optical Studies of Fluorescent Mesoporous Silica Nanoparticles, J. Mater. Sci. Technol., 29 (2013) 742*

*Spectroscopy of Nickel-Doped Zinc Sulfide Nanoparticles, Spectrosc. Lett., 46 (2013) 1, DOI:10.1080/00387010.2012.744318.*

*Optical studies of Acriflavin dye in mesoporous nano silica MCM-41, Defence Science Journal, published by DESIDOC, DRDO, (in press)*

*Effect of impurity phases on the TL characteristics of nanocrystalline Mn-doped CaF<sub>2</sub>, J. Lum. (in Press)*

*Effect of phase transitions on thermoluminescence characteristics of nanocrystalline alumina, NIM B, (in Press).*

*Synthesis and Dosimetry Characteristics of a New High Sensitivity TLD Phosphor NaLi<sub>2</sub>PO<sub>4</sub>:Eu<sup>3+</sup>, Radiat. Measur. (in Press).*

3.

a) Research papers published in Academic Journals other than Refereed/Peer Reviewed Journals

b) Research papers published in Refereed/Peer Reviewed Conferences

Redox reactions, Thermoluminescence and photoluminescence in europium activated BaSr(SO<sub>4</sub>)<sub>2</sub> mixed sulphate. Numan Salah and **P. D. Sahare**. Proceedings of National Seminar on Advanced Materials (NSAM – 2004) held on February 1<sup>st</sup>, 2004 at Kamla Nehru Mahavidyalaya, Nagpur.

Thermoluminescence characteristics of CaSO<sub>4</sub>: Dy nanoparticles and their optical properties. Numan Salah, **P. D. Sahare**, S. P. Lochab and R. K. Kale. Proceedings of International Conference on Luminescence and its Applications (ICLA – 2004) held at BARC Bombay during 9-12 February 2004. P142.

Li<sub>5</sub>AlO<sub>4</sub>:Cu, A promising TLD material. N. B. Ingle, B. K. Katore, **P. D. Sahare**, S. K. Omanwar and S. V. Moharil. Proceedings of International Conference on Luminescence and its Applications (ICLA – 2004) held at BARC Bombay during 9-12 February 2004. P230.

Thermoluminescence and photoluminescence in K<sub>3</sub>NaSO<sub>4</sub>:Eu nanoparticles. **P. D. Sahare**, J. S. Bakare, D. G. Wakade, Numan Salah, Rani Jha and Lalhriatzuala. Proceedings of International Conference on Luminescence and its Applications (ICLA – 2004) held at BARC Bombay during 9-12 February 2004. P345.

Preparation and characterization of nanocrystalline MgB<sub>4</sub>O<sub>7</sub>: Dy for radiation dosimetry using thermoluminescence technique. A. Pandey, **P. D. Sahare**, N. B. Ingle, S. P. Lochab, D. Kanjilal, and S. K. Omanwar. Proceedings of International Conference on Luminescence and its Applications (ICLA – 2004) held at BARC Bombay during 9-12 February 2004. P354.

Thermoluminescence and photoluminescence characteristics of nanocrystalline BaSO<sub>4</sub>: Dy Phosphor. Numan Salah, **P. D. Sahare**, J. S. Bakare and S. P. Lochab. Proceedings of International Conference on Luminescence and its Applications (ICLA – 2004) held at BARC Bombay during 9-12 February 2004. P357.

Study of TL and PL in LiF:Mg,Cu,P on 24 MeV ion beam irradiation. Numan Salah, Somrendro Singh and P. D. Sahare, Proceedings, NCLA-2005, Bangalore University, Bangalore during 2-4 February, 2005.

Fluorescence quenching of 7-Diethylamino-4-trifluoromethyl Coumarin in presence of acetone, A.Pattanaik, M Nanda & P D Sahare, Proceedings of SPIE -- Multispectral, Hyper spectral, and Ultraspectral Remote Sensing Technology, Techniques, and Applications, William L. Smith, Sr., Allen M. Larar, Tadao Aoki, Ram Rattan, Edits., 6405 (2006) 640514-1.

Hydrogen Peroxide Sensor Using Laser grade Dye Rhodamine B, A.Pattanaik, P D Share & M. Nanda, Proceedings of SPIE –Advanced Sensor Systems and Applications, Chairs: Yun Jiang Rao, Yanbiao Liao, Gang-Ding Peng, Volume 6830 (2007) 68301D-1

Sensor using Coumarin 440, A. Pattanaik, Geeta Rani, P. d. Sahare, Indian Journal of Physics, Vol 85 (2011) An Optical Chemical Sensor for Ammonia using a laser grade dye- Coumarin 152A, A.Pattanaik & P D Sahare, Page- 336 CONTEMPORARY OPTICS AND OPTOELECTRONICS, Editors: PP Sahu, P Deb, TATA McGraw HILL (2008), ISBN (13 DIGITS)-978-0-07-024888-5

An Optochemical Detection Technique for Potassium Hydroxide, A. Pattanaik & P D Sahare, Page- 339, CONTEMPORARY OPTICS AND OPTOELECTRONICS, Editors: PP Sahu, P Deb, TATA McGraw HILL (2008), ISBN: 978-0-07-024888-5

A Sensor for Acetone using a laser grade dye-Malachite green, A.Pattanaik & P D Sahare, Page-225, Proceedings of the third International Conference on LUMINESCENCE AND ITS APPLICATIONS, Editors: Santa Chawla, Harish Chander, K V R Murthy, Macmillan India (2008), ISBN 13:978-0230-63468-8

An optical sensor for Hydrogen peroxide using a laser grade dye Stilbene – 3, A. Pattanaik & P D Sahare, Page- 303, LUMINESCENCE AND ITS APPLICATIONS, Editors: S Selvasekarapandian, K V R Murthy, V Natarajan, J Malathi, G M Brahmanandhan, D Khanna, Macmillan India (2007), ISBN 13:9780230630543

Concentration effects on Fluorescence yield for some laser grade Coumarin Dye solutions, A. Pattanaik, P D Sahare, M Nanda, Page- 285, LUMINESCENCE AND ITS APPLICATIONS, Editors: S Selvasekarapandian, K V R Murthy, V Natarajan, J Malathi, G M Brahmanandhan, D Khanna, Macmillan India (2007), ISBN 13:9780230630543

Fluorescence quenching of laser grade dye Stilbene – 3 in presence of acetone, A. Pattanaik ,P D Sahare & A Baghel,Page-31, International Conference on Lasers and Nanomaterials (2006), University of Kolkatta, Kolkota

Fluorescence Quenching of 3-(2'-benzothiazolyl)-7-Diethylamino Coumarin in presence of Acetone, A. Pattanaik, P D Sahare, R Ranjan & J Mehra, Page-37, XVI National Conference on Atomic and Molecular Physics (2007), Tata Institute of Fundamental Research, Mumbai

A Chemical Sensor for Ammonia using a laser grade dye – Rhodamine B, A. Pattanaik & P D Sahare, P-7(13.15 abstract), National Laser Symposium (2007), M S University, Vadodara, Gujrat

Fluorescence quenching of 7-diethylamino-4-trifluoromethyl Coumarin in presence of Potassium hydroxide, A.Pattanaik, P D Sahare & M Nanda, Page-60, Topical Conference on atomic and Molecular Physics (2008), Dept.of Physics, Vallabh Vidyanagar, Gujrat

An Optical sensor for Acetone using Fluorescence quenching of 7-amino-4-methyl Coumarin, A.Pattanaik, P D Sahare & J Mehra, Page-61, Topical Conference on atomic and Molecular Physics (2008), Dept. of Physics, Vallabh Vidyanagar, Gujrat

Effect of Concentration of Fluorescence Spectrum of Laser dye –Malachite green, A. Pattanaik & P D Sahare, Page-70, International Conference on luminescence and its Applications-2008, National Physical Laboratory, Delhi

On the transfer of electronic excitation energy in liquids using a laser dye –Rhodamine B, A. Pattanaik, P D Sahare & M Nanda, Page-71, International Conference on luminescence and its Applications-2008,National Physical Laboratory, Delhi

A simulated study of laser induced fluorescence characteristics for Oxygen molecule, A. Pattanaik, P D Sahare& M Nanda, Page-70, International Conference on luminescence and its Applications-2008, National Physical Laboratory, Delhi

Concentration effects on fluorescence yield for laser grade dye Stilbene 420 and Rhodamine B solutions, A. Pattanaik, S.Kumari, S.Kumar, V.Kumar,G Rani & P D Sahare, Page-poster78, National Conference on Luminescence and its applications(2009), CGCRI, Kolkota

Thermoluminescence characteristics of nanocrystalline Zirconium oxide doped with copper, J Mehra, P D Sahare, R Ranjan & A. Pattanaik, Page-109, International Conference on luminescence and its Applications-2008, National Physical Laboratory, Delhi

Thermoluminescence Studies of copper doped nanocrystalline Aluminium Oxide, J Mehra, P D Sahare, R Ranjan & A. Pattanaik,Page-62, Topical Conference on atomic and Molecular Physics (2008), Dept.of Physics, Vallabh Vidyanagar, Gujrat

Thermoluminescence properties of Cu doped nanocrystalline ZnO phosphor, J Mehra, P D Sahare, R Ranjan & A. Pattanaik, Page-53, Indo Australia Symposium on Multifunctional Nanomaterials Nanostructures and Applications (2007), Dept. of Physics and Astrophysics, University of Delhi



Thermo luminescence properties of Cu and P doped LiNaSO<sub>4</sub> phosphor, J.Mehra, R Ranjan, N,Salah, S P Lochab, P D Sahare, A. Pattanaik & A Kumar, Page- 86,Conference on 'Accelerators and low level Radiation Safety' (2007), Inter University Accelerator Center, New Delhi

TL study of CaSr<sub>1-x</sub>SO<sub>4</sub>: Eu Phosphors, S P Lochab, P D Sahare, N Salah, R S Chauhan, R Ranjan, A Pandey & A Pattanaik, Page-115, 2<sup>nd</sup> International Conference on Current Developments in Atomic, Molecular & Optical Physics (2006), Dept. of Physics and Astrophysics, University of Delhi

Optical sensor systems for the atmospheric probing of chemical agents in the Vis-IR region, A. Pattanaik & P D Sahare, Page – 5 , ORAL Presentation Abstract book of Winter College on Optics in Environmental Science(2009)

Concentration effects on fluorescence yield for laser grade dye- Acriflavin, A. Pattanaik & P D Sahare, 7<sup>th</sup> Liquid matter conference (2008), Lund University, Sweden

Laser sensor Systems for the detection of chemical agents in Vis-IR Region, A. Pattanaik & P D Sahare, ORAL Presentation Abstract book of Workshop for young Scientists on 'Lasers, quantum optics and Biophysics, Gif-Sur-Yvette, France (2007)

Stilbene Laser dye incorporated Mesoporous Nano silica as Ammonia Sensor, **Surbhi Kumari** P. D. Sahare, Page 1, Laser and Advanced materials , A proceedings of National Conference on Lasers and Advanced Materials 2012, Editors G.G.Muley ISBN No-978-81-92256-6-1, 29-30 May **2012**.

Concentration Effects On Fluorescence Yield For Laser Grade Dye Stilbene 420 And Rhodamine B Solutions Amitansu Pattanaik, **Surbhi Kumari**, Surender Kumar, Vipin kumar, Geeta Rani and P D Sahare , Page 79, Proceeding of National Conference on Luminescence and its applications , Feb 19-21 (**2009**), Poster presentation.

Optical Gas Sensor of Sulfur Dioxide using Malachite Green Oxalate Salt, **Surbhi Kumari** , P. D. Sahare, Meenakshi Gupta and J. C. Kapoor , Page 104, Proceedings of International Conference on Sensors and related Networks, Editors J.P.Raina, M.Khalid, Z.C Alex, ISBN NO. 978-81-8424-541-7 (vol I) Dec 8-10, (**2009**) Oral presentations.

Fluorescence Quenching Of Mesoporous Silica Nanoparticles With Ammonia, **Surbhi Kumari** , P.D.Sahare, Meenakshi Gupta, J.C.Kapoor, Page 167, Proceedings of National conference on Phosphors and their Applications, Editors KVR Murthy, B.N.Lakshminarasappa, V.Natrajan, ISBN NO- 978-81-910787-1-8, November 15-16 (**2010**), Oral presentation.

Optical Gas Sensor of Ammonia using Stilbene 420 dye incorporated alumina porous membrane, **Surbhi Kumari**, P.D. Sahare, Meenakshi Gupta, J.C. Kapoor, Page 157, proceedings of National conference on Safety Technology & Management in Defence, October 27-28 (**2010**), Oral presentation.

Fluorescence Sensitization Of Mesoporous Nanosilica Particles Using Laser Grade Dye Stilbene–420, **Surbhi Kumari**, P. D. Sahare, Meenakshi Gupta, J. C. Kapoor, page 236, Proceedings of National Conference on Luminescence and its applications, Editors K.Somaiah, Dr,K.V.R.Murthy, Feb. 7-9 (**2011**), Oral presentation.

Novel Nanostructured Zinc Oxide Ammonia Gas Sensor, **Surbhi Kumari**, P.D.Sahare, Meenakshi Gupta, J.C.Kapoor, page 139, Proceedings of International Conference on Advances in Condensed and Nanomaterials, Editors S.K.Tripathi, Keya Dharambir, Ranjan Kumar, G.S.S.Saini, Feb. 22-26 (**2011**), Poster presentation.

Sensitization Of Mesoporous Silica Nanoparticles (Msn) By Laser Grade Dye Acriflavin, **S. Kumari**, P.D.Sahare, J.C.Kapoor, M. Gupta, page 91, Proceedings of International Conference on Nanomaterials and Nanotechnology, Editors Ashutosh Tiwari, and P.D.Sahare, ISBN NO- 978-81-920068-3-3, Dec. 18-21 (**2011**), Oral presentation.



Sensitization Of Mesoporous Silica Nanoparticles (Msns) By Laser Grade Dye Popop, **Surbhi Kumari**, P.D.Sahare, Meenakshi Gupta , Page 513, Proceedings of International Conference and Workshop on

Nanostructured Ceramics and other Nanomaterials, March 13-16, **(2012)**, Oral presentation.  
Fluorescence Sensitization Of Mesoporous Silica Nanoparticles (Msns) By Laser Grade Dye Fluorescein Sodium, **Surbhi Kumari**, P.D.Sahare, Proceedings of Xlth International Conference on nanostructured materials, Aug. 26 **(2012)**, Oral presentation.

TLD Nanophosphors for Their Applications in TLD and OSL Dosimetry, a Key Note Address at 1<sup>st</sup> Congress on Advanced Materials during 13-17, May 2011 organized jointly by University of Jinan, Jinan

c) *Research papers Published in Conferences/Seminar other than Refereed/Peer Reviewed Conferences*

**Nanophosphors and Their Applications – A key note address at National Seminar on Recent Trends in Luminescence (NSRTL-2008) organized by Luminescence Society of India (Jabalpur Chapter) and Rani Durgavati University, Jabalpur during 25-26 April 2008. Also chaired a technical session.**

**Nanocrystalline TLD Phosphors, Invited Talk at National Seminar cum Conference on "Emerging Trends in Physics" (NSC-ETP 2007) held during December 17-19, 2007 at R. K. College, Madhubani, 847211 also chaired a technical session.**

4. *Other publications (Edited works, Book reviews, Festschrift volumes, etc.)*

#### Conference Organization/Presentations (in the last three years)

*List against each head(If applicable)*

1. *Organization of a Conference*

**National Conference on Luminescence and its Applications 2003 in collaboration with National Physical Laboratory, New Delhi, India**  
**International Conference on Luminescence and its Applications 2008 in collaboration with National Physical Laboratory, New Delhi, India**  
**Indo-Russian Workshop on Nanotechnology and Laser Induced Plasma at the University of Delhi, Delhi, India in 2009**

2. *Participation as Paper/Poster Presenter*  
*Several presentations were made.*

#### Research Projects (Major Grants/Research Collaboration)

"Response of TLD Materials to SHI" sponsored by Inter-University Accelerator Centre, New Delhi  
"Development of X-ray radiation diagnostics equipment for investigation of the X-ray emission from laser and discharge produced plasma using TLD and X-ray storage phosphors", Indo-Russian ILTP Project sponsored by DST, Delhi and RAS, Moscow.  
"TLD Nanophosphors for Ion-Beam dosimetry" sponsored by Inter-University Accelerator Centre, New Delhi  
"Development of Nanophosphors for Space Dosimetry" sponsored by ISRO at University of Pune  
"Development of Gas Sensors for Polluting and Fire Extinguished Gases" sponsored by CFEES, DRDO, Delhi  
"Modifications by SHI Beam in Wide Band Gap Semiconductor Nanoparticles for Their Applications as Multifunctional Materials" sponsored by IUAC, Delhi

#### Awards and Distinctions

National Overseas Scholarship to visit USA.

UGC and CSIR Research Associateships.

Distinguished Research Scientist Award -2011, International Association for Advanced Materials (IAAM) URL: [www.iiamonline.com](http://www.iiamonline.com)

Best Editor Award -2011, International Association for Advanced Materials (IAAM) URL: [www.iiamonline.com](http://www.iiamonline.com)

#### Association With Professional Bodies

1. *Editing*

*Associate Editor, Advanced Materials Letters*

URL: [www.amlett.com](http://www.amlett.com)

*Member, Editorial Board,*

*Journal of Astrophysics and Aerospace Technology*

*OMICs Publishing Group, USA*

URL: <http://www.omicsgroup.org/journals/editorialboardJAAT.php>

*Lead Guest Editor, Special Issue,*

*"Nanostructured Materials: Optical Properties and Applications"*

*Hindawi Publishing Corporation*

URL: <http://www.hindawi.com/>

*Lead Guest Editor, Special Issue,*

*"Luminescent Phosphors and Their Applications",*

*Hindawi Publishing Corporation*

URL: <http://www.hindawi.com/>

*Associate Editor*

*International Journal of Chemical Research*

*Bioinfo Publications*

ISSN : 0975-3699 (Print) E-ISSN : 0975-9131 (Online)

*Editor-in-Chief*

*Journal of Luminescence & Applications,*

*Columbia International Publishing,*

URL: <http://www.uscip.org/>

2. *Reviewing*

*Biologicals*

*IEEE Transactions on Nuclear Science*

*Indian Journal of Applied Physics*

*Journal of Luminescence*

*Journal of Physics and Chemistry of Solids*

*Journal of Physics D: Applied Physics*

*NIM B*

*Radiation Effects and Defects in Solids*

*Radiation Measurements*

*Spectra Chemica Acta*

*Scripta Materialia*

*Wesleyan Journal of Research*

*Biological Chemistry*

*Biotechnology and Applied Biochemistry*

3. *Advisory*

*Member, Governing Body, MG Institute of Technology and Management, Lucknow, UP, India*

4. *Committees and Boards*

*Member, many selection committees of State Public Service Commission, UP and LNM, University, UP*

5. *Memberships*  
**Luminescence Society of India**  
**International Association of Advanced Materials**  
**Indian Physics Association**

6. *Office Bearer*  
**President, Luminescence Society of India (Delhi Chapter)**  
**President, International Association of Advanced Materials (South Asian Chapter)**

#### Other Activities

I am also involved in social and literary activities.

--- P D Sahare

#### **Representative list of Publications in Journal (last Five year):**

1. Thermoluminescence of BaSO<sub>4</sub>: Eu irradiated with 48 MeV Li<sup>3+</sup> and 150 MeV Ag<sup>12+</sup> ions, N. Salah, S. P. Lochab, D. Kanjilal, J. Mehra, **P. D. Sahare**, R. Ranjan, A. A. Rupasov, V. E. Aleynikov, J. Phys. D: Appl. Phys., 41 (2008) 085408, **Impact Factor: 2.52.**
2. Energy transfer studies in binary dye solution mixtures: Acriflavine + Rhodamine 6G and Acriflavine + Rhodamine B, **P D Sahare**, Vijay K. Sharma, D. Mohan and A.A. Rupasov, Spectrochimica Acta: A, 69 (2008) 1257–1264, **Impact Factor: 2.13.**
3. Novel Nanostructured Zinc Oxide Ammonia Gas Sensor, Surbhi Kumari, P. D. Sahare, Meenakshi Gupta, and J. C. Kapoor, AIP Conf. Proc., 1393 (2011) 219.
4. Photoluminescence of Cu doped sponge-like porous ZnO nanoparticles synthesized via chemical route, V. Kumar and **P. D. Sahare**, AIP Conf. Proc., 1393 (2011) 63-64.
5. Fluorescence quenching of laser grade dye coumarin 440 in presence of hydrogen peroxide, A. Pattanaik, **P.D. Sahare**, G.Rani, Ind. J. Phys. 85 (2011) 1775, **I. F.: 1.79.**
6. A new approach to produce single and double layer graphene from re-exfoliation of expanded graphite, S.R. Dhakate, N. Chauhan, S. Sharma, J. Tawale, S. Singh, **P.D. Sahare**, R.B. Mathur, Carbon, 2011, 49, 1946-1954, **Impact Factor: 6.6**
7. Synthesis and luminescent properties of Li-doped ZnS nanostructures by chemical precipitation method, G. Rani, **P. D. Sahare**, AIP Conf. Proc.1393 (2011) 253-254.
8. Novel nanostructured zinc oxide ammonia gas sensor, S. Kumari, **P. D. Sahare**, M. Gupta, J. C. Kapoor, AIP Conf. Proc., 1393 (2011) 219-220.
9. Effect of surface defects on green luminescence from ZnO nanoparticles S. Kumar, **P. D. Sahare**, AIP Conf. Proc., 1393 (2011) 159-160.

10. Sensitization Of Mesoporous Silica Nanoparticles (MSNs) By Laser Grade Dye Acriflavin, Surbhi Kumari, **P. D. Sahare**, Meenakshi Gupta, (2012), DOI: 10.5185/amlett.2012.icnano.172, **Impact Factor: 1.93**
11. Nd-doped ZnO as a multifunctional material, Surender Kumar and **P. D. Sahare**, J. Rare Earths, 30 (2012) 761, **Impact Factor: 1.4**
12. Effects of annealing on the surface defects of zinc oxide nanoparticles, Surender Kumar and **P. D. Sahare**, Nano, 7 (2012) 1250022, **Impact Factor: 1.26**
13. Thermoluminescence and Photoluminescence properties of  $K_2Ca_2(SO_4)_3$ : Cu nanophosphor for gamma radiation dosimetry, N. Mandlik, J. S. Bakare, **P. D. Sahare**, V. N. Bhoraskar, S. D. Dhole, Ind. J. Phys. Appl. Phys., 50 (2012) 859, **Impact Factor: 0.711**
14. High Energy Radiations Dosimetry in the Space, **P. D. Sahare**, Editorial, J. Astrophys Aospace Technol 1 (2012) 1-2.
15. Preparation and characterization of short length ZnO nanorods and ZnO@ZnS core-shell nanostructures, G. Rani, **P. D. Sahare**, Nano Commun. Networks, 3 (2012) 197-202, **I. F.: 1.0.**
16. Elucidation of  $Mg^{2+}$  binding activity of adenylate kinase from *Mycobacterium tuberculosis* H<sub>37</sub>Rv using fluorescence studies, L. S. Meena, S. R. Dhakate, and **P. D. Sahare**, Biotechn. Appl. Biochem., 59 (2012) 429–436, **Impact Factor: 1.7.**
17. Effect of phase transition and particle size on thermoluminescence characteristics of nanocrystalline  $K_2Ca_2(SO_4)_3:Cu^+$  phosphor, **P.D. Sahare**, J.S. Bakare, S.D. Dhole, Pratik Kumar, Radiat. Measur. 47 (2012) 1083-1091, **Impact Factor: 1.18.**
18. Observation of band gap and surface defects of ZnO nanoparticles synthesized via hydrothermal route at different reaction temperature, Surender Kumar, **P. D. Sahare**, Opt. Commun. 285 (2012) 5210, **Impact Factor: 1.54.**
19. Redox reactions in Cu-activated nanocrystalline LiF TLD phosphor, Manveer Singh and **P. D. Sahare**, NIM B, 289 (2012) 59, **Impact Factor: 1.19.**
20. Thermoluminescence and photoluminescence properties of  $K_2Ca_2(SO_4)_3:Cu$  nanophosphor for gamma radiation dosimetry, N. Mandlik, , J. S. Bakare, **P. D. Sahare**, V. N. Bhoraskar, S. D. Dhole, Ind. J. Pure Appl. Phys. 50 (2012) 859-862, **Impact Factor: 0.711**
21. Synthesis and dosimetry characteristics of a new high sensitivity TLD phosphor  $NaLi_2PO_4:Eu^{3+}$ , Manveer Singh, **P. D. Sahare** and Pratik Kumar, Radiat. Measur., 59 (2013) 8-14, **Impact Factor: 1.18.**
22. Photoluminescence study of laser grade POPOP dye incorporated into MCM-41, Surbhi Kumari, **P. D. Sahare**, Adv. Porous Mater., 1 (2013) 114–121.
23. Optical Studies of Fluorescent Mesoporous Silica Nanoparticles, Surbhi Kumari, **P. D. Sahare**, J. Mater. Sci. Technol. 29 (2013) 742-746, **Impact Factor: 1.6.**

24. Thermoluminescence study of  $K_2Ca_2(SO_4)_3:Cu$  nanophosphor for gamma ray dosimetry, N. Mandlik, **P. D. Sahare**, B. J. Patil, et al., NIMB 315 (2013) 273-277, **Impact Factor: 1.19**
25. Effect of phase transitions on thermoluminescence characteristics of nanocrystalline alumina, Geeta Rani, **P. D. Sahare**, NIM B 311 (2013) 71-77, **Impact Factor: 1.19**
26. Spectroscopy of Nickel-Doped Zinc Sulfide Nanoparticles, G. Rani, **P. D. Sahare**, Spectr. Lett. 46 (2013) 391-396, **Impact Factor: 0.718**.
27. Gas Sensing Behavior of Fluorescein Sodium Impregnated MCM-41 for Sulphur Dioxide, Surbhi Kumari, **P. D. Sahare**, Sensor Lett. 11 (2013) 526-530.
28. Photocatalytic activity of bismuth vanadate for the degradation of organic compounds, S. Kumar, **P. D. Sahare**, Nano, 8 (2013) 1350007.
29. Optical and Magnetic Properties of Cu-Doped ZnO Nanoparticles, **P. D. Sahare** and Vipin Kumar, Int. J. Innov. Technol. Explor. Engineer. (IJITEE) ISSN: 2278-3075, 3 (2013) 15-21
30. Structural and spectroscopic characterizations of ZnO quantum dots annealed at different temperatures, G. Rani, **P. D. Sahare**, J. Mater. Sci. Techn., 29, (2013) 1035-1039.
31.  $Gd^{3+}$  incorporated ZnO nanoparticles: A versatile material, S. Kumar, **P. D. Sahare**, Mater. Res. Bull. 51 (2014) 217-223.
32. Study of TL and optically stimulated luminescence of  $K_2Ca_2(SO_4)_3:Cu$  nanophosphor for radiation dosimetry, N. Mandlik, **P. D. Sahare**, M. S. Kulkarni, et al., J. Lum. 146 (2014) 128-132
33. Photoluminescence studies of stilbene laser dye incorporated mesoporous silica nanoparticle (MSN) with sulphur dioxide, Surbhi Kumari, **P. D. Sahare**, J. Porous Mater. 21 (2014) 45-52.
34. Structural and photoluminescent properties of  $Al_2O_3:Cr^{3+}$  nanoparticles via solution combustion synthesis method, G. Rani, **P. D. Sahare**, Adv. Powder Technol., 2014, DOI: 10.1016/j.appt.2013.11.009
35. Study of the structural and morphological changes during the phase transition of ZnS to ZnO, Appl. Phys. A: Mater. Sci. Process., G. Rani, **P.D. Sahare**, 2014, DOI: 10.1007/s00339-013-8173-6.
36. Effect of temperature on structural and optical properties of boehmite nanostructure, G. Rani, **P. D. Sahare**, Internat. J. Appl. Ceram. Technol., (2014) DOI: 10.1111/ijac.12133.
37. Synthesis and TL characteristics of  $MgB_4O_7:Mn,Tb$  phosphor  
Sahare, P. D.; Singh, Manveer; Kumar, Pratik  
JOURNAL OF LUMINESCENCE, Volume: 160 Pages: 158-164 Published: APR 2015
38. Effect of Temperature on Structural and Optical Properties of Boehmite Nanostructure

39. A new high sensitivity Na<sub>2</sub>LiPO<sub>4</sub>:Eu OSL phosphor  
 Sahare, P. D.; Singh, Manveer; Kumar, Pratik  
 RSC ADVANCES Volume: 5 Issue: 5 Pages: 3474-3481 Published: 2015
40. TL characteristics of Ce<sup>3+</sup>-doped NaLi<sub>2</sub>PO<sub>4</sub> TLD phosphor  
 Sahare, P. D.; Singh, Manveer; Kumar, Pratik  
 JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY  
 Volume: 302 Issue: 1 Pages: 517-525 Published: OCT 2014
41. Lyoluminescence dosimetry of high-energy c radiation using MgB<sub>4</sub>O<sub>7</sub>:Mn<sup>2+</sup>  
 P. D. Sahare, S. K. Srivastava, J Radioanal Nucl Chem  
 DOI 10.1007/s10967-015-4117-2
42. OPTICALLY STIMULATED LUMINESCENCE (OSL) RESPONSE  
 OF Al<sub>2</sub>O<sub>3</sub>:C, BaFCl:Eu AND K<sub>2</sub>Ca<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>:Eu PHOSPHORS  
 Pratik Kumar, Shaila Bahl, P. D. Sahare, Surender Kumar and Manveer Singh  
 Radiation Protection Dosimetry (2015), pp. 1–8, doi:10.1093/rpd/ncu371
43. Effect of annealing and impurity concentration on the TL characteristics of  
 nanocrystalline Mn-doped CaF<sub>2</sub>, (July 2015)  
 P.D. Sahare, Manveer Singh, Pratik Kumar  
 DOI: 10.1016/j.radmeas.2015.07.003

Updated list of Publications:

Sr. No.	Authors	Title	Publication	Volume	Pages	Year	Publisher
1	Nandkumar Mandlik, SD Dhole, <b>PD Sahare</b> , JS Bakare, A Balraj, BC Bhatt	Thermoluminescence studies of CaSO <sub>4</sub> :Dy nanophosphor for application in high dose measurements	Applied Radiation and Isotopes	148	253-261	2019	Elsevier
2	V Chauhan, T Gupta, P Singh, <b>PD Sahare</b> , N Koratkar, R Kumar	Influence of 120 MeV S <sup>9+</sup> ion irradiation on structural, optical and morphological properties of zirconium oxide thin films deposited by RF sputtering	Physics Letters A	383	898-907	2019	Elsevier
3	S Kumar, <b>PD Sahare</b> , S Kumar	Optimization of the CVD parameters for ZnO nanorods growth: Its photoluminescence and field emission properties	Materials Research Bulletin	105	237-245	2018	Elsevier
4	P Tumram, <b>PD Sahare</b> , SV Moharil	Energy transfer studies in Ca <sub>10</sub> Li (PO <sub>4</sub> ) <sub>7</sub> : Ce <sup>3+</sup> , Nd <sup>3+</sup>	Optik	168	92-100	2018	Elsevier
5	<b>PD Sahare</b> , S Kumar, S Kumar, F Singh	n-ZnO/p-Si heterojunction nanodiodes based sensor	Sensors and Actuators A: Physical	279	351-360	2018	Elsevier

		for monitoring UV radiation					
6	S Kumar, <b>PD Sahare</b> , S Kumar	Morphological transformations induced by Co impurity in ZnO nanostructures prepared by rf-sputtering and their physical properties	Journal of Materials Science: Materials in Electronics	29	11719-11729	2018	Springer
7	P Tumram, <b>PD Sahare</b> , SV Moharil	KCl.SrCl <sub>2</sub> : Eu <sup>2+</sup> , Nd <sup>3+</sup> phosphor for possible application in solar photovoltaics	Journal of Luminescence	199	78-81	2018	Elsevier
8	<b>PD Sahare</b> , M Saran	Particle size effects on the dosimetry characteristics of K <sub>3</sub> Na(SO <sub>4</sub> ) <sub>2</sub> : Eu TLD micro- and nanophosphors	Journal of Luminescence	198	488-496	2018	Elsevier
9	A Vyas, CP Joshi, <b>PD Sahare</b> , SV Moharil	NIR emission in Ba <sub>2</sub> SiO <sub>4</sub> : Eu <sup>2+</sup> , Nd <sup>3+</sup> phosphors with near UV/violet excitation	Journal of Alloys and Compounds	743	789-794	2018	Elsevier
10	NT Mandlik, VN Boraskar, BJ Patil, <b>PD Sahare</b> , SD Dhole, SS Dahiwalé	Thermoluminescence studies of CaSO <sub>4</sub> : Eu nanophosphor for electron dosimetry	Indian Journal of Pure & Applied Physics (IJPAP)	55	413-419	2017	CSIR-NISCAIR, India
11	<b>PD Sahare</b> , M Saran	Effect of pH on lyoluminescence of K <sub>3</sub> Na(SO <sub>4</sub> ) <sub>2</sub> : Eu <sup>3+</sup> phosphor for its application in dosimetry of high-energy radiations	Journal of Luminescence	179	254-259	2016	North-Holland
12	<b>PD Sahare</b> , N Ali, NS Rawat, S Bahl, P Kumar	Dosimetry characteristics of NaLi <sub>2</sub> PO <sub>4</sub> : Ce <sup>3+</sup> OSLD phosphor	Journal of Luminescence	174	22-28	2016	North-Holland
13	<b>Sahare, PD</b> ; Srivastava, SK;	Lyoluminescence dosimetry of high-energy $\gamma$ radiation using MgB <sub>4</sub> O <sub>7</sub> : Mn <sup>2+</sup>	Journal of Radioanalytical and Nuclear Chemistry	307	31-36	2016	Springer Netherlands
14	Singh, Manveer; <b>Sahare, PD</b> ; Kumar, Pratik; Bahl, Shaila;	Radiation Induced Abnormal Reduction of Eu <sup>3+</sup> and Luminescence Properties of NaLi <sub>2</sub> PO <sub>4</sub> : Eu	Journal of Luminescence and Applications	3	1-10	2016	Columbia International Publishing
15	<b>Sahare, PD</b> ; Singh, Manveer; Kumar, Pratik;	Synthesis and TL characteristics of MgB <sub>4</sub> O <sub>7</sub> : Mn, Tb phosphor	Journal of Luminescence	160	158-164	2015	North-Holland
16	<b>Sahare, PD</b> ; Singh, Manveer; Kumar, Pratik;	A new high sensitivity Na <sub>2</sub> LiPO <sub>4</sub> : Eu OSL phosphor	RSC Advances	5	3474-3481	2015	Royal Society of Chemistry
17	Kumar, Pratik; Bahl, Shaila; <b>Sahare, PD</b> ; Kumar, Surender; Singh, Manveer;	Optically stimulated luminescence (OSL) response of Al <sub>2</sub> O <sub>3</sub> : C, BaFCl: Eu and K <sub>2</sub> Ca <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> : Eu phosphors	Radiation protection dosimetry	167	453-460	2015	Oxford University Press
18	Jha, Nikhil R; Kuraria, RK; Kuraria, SR; Sahare, PD;	Luminescence of Eu Doped Y <sub>2</sub> O <sub>3</sub> Nanophosphor Prepared from Different Synthesis methods: Effect of synthesis Temperature on Luminescence Intensity	International Journal of Luminescence and applications	15	500-505	2015	Luminescence Society of India



19	<b>Sahare, PD;</b> Singh, Manveer; Kumar, Pratik	Effect of annealing and impurity concentration on the TL characteristics of nanocrystalline Mn-doped CaF <sub>2</sub>	Radiation Measurements	80	29-37	2015	Elsevier
20	Kumar, Surender; <b>Sahare, PD;</b>	Gd <sup>3+</sup> incorporated ZnO nanoparticles: a versatile material	Materials Research Bulletin	51	217-223	2014	Pergamon
21	<b>Sahare, PD;</b> Singh, M;	NaLi <sub>2</sub> PO <sub>4</sub> : Eu <sup>3+</sup> based novel luminescent red phosphor	Indian Journal of Physics	88	621-630	2014	Springer
22	Mandlik, Nandkumar; <b>Sahare, PD;</b> Kulkarni, MS; Bhatt, BC; Bhoraskar, VN; Dhole, SD;	Study of TL and optically stimulated luminescence of K <sub>2</sub> Ca <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> : Cu nanophosphor for radiation dosimetry	Journal of Luminescence	146	128-132	2014	Elsevier
23	<b>Sahare, PD;</b> Singh, Manveer; Kumar, Pratik;	TL characteristics of Ce <sup>3+</sup> -doped NaLi <sub>2</sub> PO <sub>4</sub> TLD phosphor	Journal of Radioanalytical and Nuclear Chemistry	302	517-525	2014	Springer
24	Kumari, Surbhi; <b>Sahare, PD;</b>	Photoluminescence studies of stilbene laser dye incorporated mesoporous silica nanoparticle (MSN) with sulphur dioxide	Journal of Porous Materials	21	45-52	2014	Springer
25	Kumar, Surender; <b>Sahare, PD;</b>	Synthesis of α-Bi <sub>4</sub> V <sub>2</sub> O <sub>11</sub> and its Sonocatalytic Activity for the Degradation of Rhodamine B	Journal of Luminescence and Applications	1	73-86	2014	Columbia International Publishing, USA
26	Rani, Geeta; <b>Sahare, PD;</b>	Structural and photoluminescent properties of Al <sub>2</sub> O <sub>3</sub> : Cr <sup>3+</sup> nanoparticles via solution combustion synthesis method	Advanced Powder Technology	25	767-772	2014	Elsevier
27	Rani, Geeta; <b>Sahare, PD;</b>	Study of the structural and morphological changes during the phase transition of ZnS to ZnO	Applied Physics A	116	831-837	2014	Springer
28	Meena, Jaishree; Singh, Mohit; <b>Sahare, PD;</b> Meena, Laxman S;	Interaction of nanoparticles in biological systems and their role in therapeutical treatment of tuberculosis and cancer	Journal Luminescence and Applications	1	7-22	2014	Columbia International Publishing
29	Kumar, Surender; <b>Sahare, PD</b>	Photocatalytic activity of bismuth vanadate for the degradation of organic compounds	Nano brief reports and reviews	08	1350007-1 – 1350007-9	2013	World Scientific
30	Kumari, Surbhi; <b>Sahare, PD;</b>	Optical studies of fluorescent mesoporous silica nanoparticles	Journal of Materials Science & Technology	29	742-746	2013	Elsevier
31	Rani, Geeta; <b>Sahare, PD</b>	Effect of phase transitions on thermoluminescence characteristics of nanocrystalline alumina	Nuclear Instruments and Methods in Physics Research Section B Beam Interactions with Materials and Atoms	311	71-77	2013	Elsevier
32	Rani, Geeta; <b>Sahare, PD</b>	Structural and Spectroscopic Characterizations of ZnO Quantum Dots Annealed at Different Temperatures	Journal of Materials Science and Technology	29	1035-1039	2013	Springer

33	Rani, Geeta; <b>Sahare, PD</b>	Spectroscopy of Nickel-Doped Zinc Sulfide Nanoparticles	Spectroscopy Letters	46	391-396	2013	Taylor & Francis
34	Rani, Geeta; <b>Sahare, PD</b>	Effect of Temperature on Structural and Optical Properties of Boehmite Nanostructure	International Journal of Applied Ceramic Technology	12	1-9	2013	The American Ceramic Society
35	<b>Sahare, PD;</b> Kumar, Vipin;	Optical and magnetic properties of Cu-doped ZnO nanoparticles	International Journal of Innovative Technology and Exploring Engineering	3	2278-3075	2013	BEIES Publishing, India
36	Kumar, Surender; <b>Sahare, PD;</b>	Photocatalytic activity of bismuth vanadate for the degradation of organic compounds	Nano	8	1350007	2013	World Scientific Publishing
37	Singh, Manveer; <b>Sahare, PD;</b> Kumar, Pratik;	Synthesis and dosimetry characteristics of a new high sensitivity TLD phosphor NaLi <sub>2</sub> PO <sub>4</sub> : Eu <sup>3+</sup>	Radiation Measurements	59	8-14	2013	Elsevier
38	Kumari, Surbhi; <b>Sahare, PD;</b>	Optical studies of fluorescent mesoporous silica nanoparticles	Journal of Materials Science & Technology	29	742-746	2013	Elsevier
39	Kumari, Surbhi; <b>Sahare, PD;</b>	Photoluminescence Study of Laser Grade POPOP Dye Incorporated into MCM-41	Advanced Porous Materials	1	114-121	2013	American Scientific Publishers
40	Mandlik, Nandkumar; <b>Sahare, PD;</b> Patil, BJ; Bhoraskar, VN; Dhole, SD;	Thermoluminescence study of K <sub>2</sub> Ca <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> : Cu nanophosphor for gamma ray dosimetry	Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms	315	273-277	2013	Elsevier
41	Kumari, Surbhi; <b>Sahare, PD;</b>	Gas Sensing Behavior of Fluorescein Sodium Impregnated MCM-41 for Sulphur Dioxide	Sensor Letters	11	526-530	2013	American Scientific Publishers
42	Kumar, Surender; <b>Sahare, PD;</b>	Observation of band gap and surface defects of ZnO nanoparticles synthesized via hydrothermal route at different reaction temperature	Optics Communications	285	5210-5216	2012	Elsevier
43	Kumar, Surender; <b>Sahare, PD;</b>	Nd-doped ZnO as a multifunctional nanomaterial	Journal of rare earths	30	761-768	2012	Elsevier
44	<b>Sahare, PD;</b> Bakare, JS; Dhole, SD; Kumar, Pratik;	Effect of phase transition and particle size on thermoluminescence characteristics of nanocrystalline K <sub>2</sub> Ca <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> : Cu <sup>+</sup> phosphor	Radiation Measurements	47	1083-1091	2012	Elsevier
45	Kumar, Surender; <b>Sahare, PD;</b>	Effects of annealing on the surface defects of zinc oxide nanoparticles	Nano: Brief Reports and Reviews	7	1250022	2012	World Scientific Publishing
46	Meena, Laxman; Dhakate Sanjay; <b>Sahare, PD</b>	Elucidation of Mg <sup>2+</sup> -binding activity of Adenylate Kinase from Mycobacterium tuberculosis H37Rv using fluorescence studies November	Biotechnology and Applied Biochemistry	59	429-436	2012	Wiley
47	Singh, Manveer; <b>Sahare, PD;</b>	Redox reactions in Cu-activated nanocrystalline LiF TLD phosphor	Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms	289	59-67	2012	Elsevier

48	Mandlik, Nandkumar; Bakare, JS; <b>Sahare, PD</b> ; Bhoraskar, VN; Dhole, SD;	Thermoluminescence and photoluminescence properties of K <sub>2</sub> Ca <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> :Cu nanophosphor for gamma radiation dosimetry	Indian Journal of Pure & Applied Physics	50	859-862	2012	NISCAIR-CSIR, India
49	Rani, Geeta; <b>Sahare, PD</b> ;	Preparation and characterization of short length ZnO nanorods and ZnO@ZnS core-shell nanostructures	Nano Communication Networks	3	197-202	2012	Elsevier
50	Mandlik, Nandkumar T; Bhoraskar, Vasant N; <b>Sahare, Puroshottam D</b> ; Patil, Bhushankumar J; Kumar, Vipin; Kulkarni, Mukund S; Dhole, Sanjay D;	Thermoluminescence and photoluminescence study of CaSO <sub>4</sub> :Dy nanophosphor for 6 MeV energy electron dosimetry	Radiation Protection and Environment	34	185-189	2011	Indian Association for Radiation and Protection (IARP) Radiation Safety Systems Division, BARC, Mumbai 400085
51	Dhakate, SR; Chauhan, N; Sharma, S; Tawale, J; Singh, S; <b>Sahare, PD</b> ; Mathur, RB;	An approach to produce single and double layer graphene from re-oxidation of expanded graphite	Carbon	49	1946-1954	2011	Pergamon
52	Pattanaik, A; <b>Sahare, PD</b> ; Rani, Geeta	Fluorescence quenching of laser grade dye coumarin 440 in presence of hydrogen peroxide	Indian Journal of Physics	85	1775-1779	2011	Springer
53	<b>Sahare, PD</b> ; Bakare, JS; Dhole, SD; Ingale, NB; Rupasov, AA;	Synthesis and luminescence properties of nanocrystalline LiF:Mg,Cu,P phosphor	Journal of Luminescence	130	258-265	2010	North-Holland
54	<b>Sahare, PD</b> ; Sharma, Vijay K; Mohan, D; Rupasov, AA;	Energy transfer studies in binary dye solution mixtures: Acriflavine+ Rhodamine 6G and Acriflavine+ Rhodamine B	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	69	1257-1264	2008	Elsevier
55	Salah, Numan; Lochab, SP; Kanjilal, D; Mehra, Jyoti; <b>Sahare, PD</b> ; Ranjan, Ranju; Rupasov, AA; Aleynikov, VE;	Thermoluminescence of BaSO <sub>4</sub> :Eu irradiated with 48 MeV Li <sup>3+</sup> and 150 MeV Ag <sup>12+</sup> ions	Journal of Physics D: Applied Physics	41	85408	2008	IOP Publishing
56	<b>Sahare, PD</b> ; Pattanaik, Amitansu;	A novel optical sensor for ammonia using a laser grade dye—Stilbene 3	Journal of Physics D: Applied Physics	40	7166	2007	IOP Publishing
57	Salah, Numan; Lochab, SP; Kanjilal, D; <b>Sahare, PD</b> ; Aleynikov, VE;	Effect of high-energy 7Li <sup>2+</sup> ions on the TL behavior of LiF: Mg, Cu, P detectors	Radiation Measurements	42	1294-1300	2007	Elsevier
58	Sharma, Vijay Kumar; Mohan, D; <b>Sahare, PD</b> ;	Fluorescence quenching of 3-methyl 7-hydroxyl Coumarin in presence of acetone	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	66	111-113	2007	Elsevier
59	Mehra, Jyoti; <b>Sahare, PD</b> ; Ranjan, Ranju; Patnaik,	Thermoluminescence properties of Cu and P doped LiNaSO <sub>4</sub> phosphor	Radiation Protection and Environment	30	9-11	2007	Indian Association for Radiation and Protection (IARP) Radiation Safety Systems Division, BARC,

	Amitansu; Ajay, Kumar; Salah, Numan; Lochab, SP;						Mumbai 400085
60	Salah, Numan; <b>Sahare, PD</b> ; Rupasov, AA;	Thermoluminescence of nanocrystalline LiF: Mg, Cu, P	Journal of Luminescence	124	357-364	2007	Elsevier
61	<b>Sahare, PD</b> ; Ranjan, Ranju; Salah, Numan; Lochab, SP;	K3Na (SO4) 2: Eu2+ nanoparticles for high dose of ionizing radiation	Journal of Physics D: Applied Physics	40	759	2007	IOP Publishing
62	Lochab, SP; Pandey, A; <b>Sahare, PD</b> ; Chauhan, RS; Salah, Numan; Ranjan, Ranju;	Nanocrystalline MgB4O7: Dy for high dose measurement of gamma radiation	physica status solidi (a)	204	2416-2425	2007	WILEY
63	Lochab, SP; <b>Sahare, PD</b> ; Chauhan, RS; Salah, Numan; Ranjan, Ranju; Pandey, A;	Thermoluminescence and photoluminescence study of nanocrystalline Ba0.97Ca0.03SO4: Eu3+	Journal of Physics D: Applied Physics	40	1343	2007	IOP Publishing
64	Lochab, SP; Salah, Numan; <b>Sahare, PD</b> ; Chauhan, RS; Ranjan, Ranju;	Thermoluminescence of Ba0.97Ca0.03SO4: Eu irradiated with 48 MeV 7Li ion beam	Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms	254	231-235	2007	Elsevier
65	Salah, Numan; <b>Sahare, PD</b> ; Prasad, Awadhesh;	Thermoluminescence and photoluminescence of LiNaSO4: Eu irradiated with 24 and 48 MeV 7Li ion beam	Journal of luminescence	121	497-506	2006	Elsevier
66	Salah, Numan; <b>Sahare, PD</b> ; Kumar, Pratik;	TL and PL in BaSr (SO4) 2: Eu mixed sulphate	physica status solidi (a)	203	898-905	2006	WILEY
67	Salah, Numan; <b>Sahare, PD</b> ; Lochab, SP; Kumar, Pratik;	TL and PL studies on CaSO4: Dy nanoparticles	Radiation Measurements	41	40-47	2006	Elsevier
68	Salah, Numan; <b>Sahare, PD</b> ;	The influence of high-energy 7Li ions on the TL response and glow curve structure of CaSO4: Dy	Journal of Physics D: Applied Physics	39	2684	2006	IOP Publishing
69	Salah, Numan; <b>Sahare, PD</b> ;	TL, PL and energy transfer in K2Ca2(SO4)3: Eu2+,Ce3+	Radiation Measurements	41	665 – 670	2006	Elsevier
70	<b>Sahare, PD</b> ; Salah, Numan; Lochab, SP; Mohanty, T; Kanjilal, D;	Modifications in TL characteristics of K2Ca2 (SO4) 3: Eu by 7Li MeV ion beam	Journal of Physics D: Applied Physics	38	3995	2005	IOP Publishing
71	Pandey, A; <b>Sahare, PD</b> ; Kanjilal, D;	Thermoluminescence and photoluminescence characteristics of sol-gel prepared pure and europium doped silica glasses	Journal of Physics D: Applied Physics	37	842	2004	IOP Publishing
72	Salah, Numan; <b>Sahare, PD</b> ; Nawaz, Shah; Lochab, SP;	Luminescence characteristics of K2Ca2 (SO4) 3: Eu, Tb micro-and nanocrystalline phosphor	Radiation Effects and Defects in Solids	159	321-334	2004	Taylor & Francis
73	Pandey, A; <b>Sahare, PD</b> ;	Pyroelectroluminescence in LiNaSO4: Eu (particle size effect)	Journal of Physics D: Applied Physics	37	2742	2004	IOP Publishing

74	Pandey, A; <b>Sahare, PD</b> ; Bakare, JS; Lochab, SP; Singh, F; Kanjilal, D;	Thermoluminescence and photoluminescence characteristics of nanocrystalline LiNaSO <sub>4</sub> : Eu phosphor	Journal of Physics D: Applied Physics	36	2400	2003	IOP Publishing
75	Sharma, Vijay K; <b>Sahare, PD</b> ; Rastogi, Ramesh C; Ghoshal, SK; Mohan, D;	Excited state characteristics of acridine dyes: acriflavine and acridine orange	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	59	1799-1804	2003	Elsevier
76	Pandey, A; <b>Sahare, PD</b> ;	Thermoluminescence characteristics of LiNaSO <sub>4</sub> doped with rare earths Eu and Dy	physica status solidi (a)	199	533-540	2003	WILEY
77	Sharma, Vijay K; <b>Sahare, PD</b> ; Pandey, A; Mohan, D;	Optical gain characteristics of C 460 and C 450	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	59	1035-1043	2003	Elsevier
78	Sharma, VK; <b>Sahare, PD</b> ; Neera, Sharma; Rastogi, RC; Ghoshal, SK; Mohan, D	Influence of solvent and substituent on excited state characteristics of laser grade coumarin dyes	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	59	1161-1170	2003	Elsevier
79	Salah, Numan; Lochab, SP; <b>Sahare, PD</b> ;	Effect of Tb <sup>3+</sup> co-doping and particle size on K <sub>2</sub> Ca <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> : Eu phosphor	Radiation effects and defects in solids	158	819-825	2003	Taylor & Francis
80	Pandey, A; Sonkawade, RG; <b>Sahare, PD</b> ;	Thermoluminescence and photoluminescence characteristics of nanocrystalline K <sub>2</sub> Ca <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> : Eu	Journal of Physics D: Applied Physics	35	2744	2002	IOP Publishing
81	Pandey, A; Sharma, VK; Mohan, D; Kale, RK; <b>Sahare, PD</b> ;	Thermoluminescence characteristics of K <sub>2</sub> Ca <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> doped with rare earths Eu and Dy	Journal of Physics D: Applied Physics	35	1330	2002	IOP Publishing
82	Dhakate, SR; Bahl, P; <b>Sahare, PD</b> ;	Oxidation behavior of PAN based carbon fiber reinforced phenolic resin matrix composites	Journal of materials science letters	19	1959-1961	2000	Springer
83	Dhakate, SR; Parashar, VK; Raman, V; Bahl, OP; <b>Sahare, PD</b> ;	Influence of ceramic interphase on the mechanical properties of T-300 carbon fiber composites	Journal of materials science letters	19	1575-1577	2000	Springer
84	Raman, V; Dhakate, SR; <b>Sahare, PD</b> ;	Synthesis of titanium carbide whiskers (TiCW) through sol-gel process from rayon fibers	Journal of materials science letters	19	1897-1898	2000	Springer
85	Moharil, SV; Bodade, SV; <b>Sahare, PD</b> ; Dhopte, SM; Muthal, PL; Kondawar, VK;	Luminescence in LiNaSO <sub>4</sub> : Eu phosphor	Radiation effects and defects in solids	127	177-182	1993	Taylor & Francis
86	<b>Sahare, PD</b> ; Porter, RS; Moharil, SV;	High-temperature thermoluminescence in poly (etherether ketone) fibres	Journal of materials science letters	11	822-823	1992	Springer
87	Dhopte, SM; Muthal, PL; Kondawar, VK; Moharil, SV; <b>Sahare, PD</b> ;	Characterization of K <sub>2</sub> Ca <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> : Eu phosphor	Journal of Physics D: Applied Physics	24	1869-1876	1991	IOP Publishing

88	Dhoble, SJ; Sahare, PD; Moharil, SV	Thermoluminescence and colour centres in KI: particle size effect	Journal of Physics: Condensed Matter	3	1189	1991	IOP Publishing
89	Sahare, PD; Moharil, SV;	Thermoluminescence in mixed alkali sulphate phosphors	Radiation effects and defects in solids	116	275-281	1991	Taylor & Francis
90	Sahare, PD; Moharil, SV;	A new high-sensitivity phosphor for thermoluminescence dosimetry	Journal of Physics D: Applied Physics	23	567	1990	IOP Publishing
91	Sahare, PD; Moharil, SV;	Thermoluminescence in LiNaSO <sub>4</sub>	Radiation Effects and Defects in Solids	114	167-172	1990	Taylor & Francis
92	Moharil, SV; Sahare, PD;	Langbeinite based phosphors for applications in thermoluminescence dosimetry	physica status solidi a	118	K55-K58	1990	WILEY
93	Sahare, PD; Moharil, SV; Bhasin, BD;	K <sub>2</sub> Ca <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> for thermoluminescence dosimetry of a high-temperature environment	Journal of Physics D: Applied Physics	22	971-974	1989	IOP Publishing
94	Sahare, PD; Moharil, SV;	Strange pyroluminescence in LiNaSO <sub>4</sub> : Eu	Journal of luminescence	43	369-373	1989	Elsevier

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	Salah, Numan; Sahare, PD; Lochab, SP; Kale, RK;	Thermoluminescence characteristics of CaSO <sub>4</sub> : Dy nanoparticles and their optical properties	Proceedings of international conference on luminescence and its applications			2004	LSI, India
	Mandlik, Nandkumar; Patil, BJ; Bhoraskar, VN; Sahare, PD; Dhole, SD;	Thermoluminescence of nanocrystalline CaSO <sub>4</sub> : Dy for gamma dosimetry and calculation of trapping parameters using deconvolution method	AIP Conference Proceedings	1591	369-371	2014	AIP
	Bokolia, Renuka; Sahare, PD;	Effect of particle size on the thermoluminescence properties of Ba <sub>0.97</sub> Ca <sub>0.03</sub> SO <sub>4</sub> : Cu	AIP Conference Proceedings	1512	446-447	2013	AIP Publishing
	Salah, Numan; Sahare, PD; Bakare, JS; Lochab, SP;	Thermoluminescence and photoluminescence characteristics of nanocrystalline BaSO <sub>4</sub> : Dy phosphor	Proceedings of international conference on luminescence and its applications			2004	
	Jha, Nikhil R; Kuraria, RK; Kuraria, SR; Sahare, PD;	Thermoluminescence studies of gamma-irradiated Y <sub>2</sub> O <sub>3</sub> : Eu nanophosphor	Proceedings of the DAE-BRNS symposium on nuclear and radiochemistry			2013	
	Pattanaik, Amitansu; Nanda, Maitreyee; Sahare, PD;	Fluorescence quenching of 7-Diethylamino-4-trifluoromethyl Coumarin in presence of acetone	Multispectral, Hyperspectral, and Ultraspectral Remote Sensing Technology, Techniques, and Applications	6405	6405-14	2006	
	Sahare, PD; Salah, Numan;	Nanoparticles and their applications for radiation dosimetry of ionizing radiation using TL	Proceedings of national conference on luminescence and its applications			2006	
	Vipin, Kumar; Sahare, PD;	PL/TL characterizations of Ba <sub>0.12</sub> Sr <sub>0.88</sub> SO <sub>4</sub> : Eu <sup>2+</sup> mixed sulphate high sensitive	Proceedings of the international conference on nanoscience and			2013	

		nanophosphor using $\gamma$ -ray as irradiation source for dosimetric application	nanotechnology: souvenir and abstracts				
	Ingle, NB; Katore, BK; Omanwar, SK; Sahare, PD; Moharil, SV;	Li <sub>5</sub> AlO <sub>4</sub> : Cu, a promising TLD material	Proceedings of international conference on luminescence and its applications			2004	
	Mandlik, Nandkumar; Varma, Vijay; Boraskar, VN; Mathe, VL; Boraskar, SV; Dhole, SD; Kulkarni, MS; Bhatt, BC; Sahare, PD;	Study of dosimetric characteristics of nanocrystalline Al <sub>2</sub> O <sub>3</sub> : C synthesized by thermal plasma reactor	Proceedings of the thirty first IARP national conference on advances in radiation measurement systems and techniques			2014	
	Pattanaik, A; Sahare, PD; Nanda, M;	Hydrogen peroxide sensor using laser grade dye Rhodamine B [6830-52]	PROCEEDINGS-SPIE THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING	6830	6830	2008	
	Mandlik, Nandkumar; Dahiwal, SS; Patil, BJ; Bhadane, MS; Boraskar, VN; Dhole, SD; Sahare, PD;	Thermoluminescence characteristic and phase transition of K <sub>2</sub> Ca <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> : Eu nanophosphor at different annealing temperatures	Proceedings of the thirty first IARP national conference on advances in radiation measurement systems and techniques: abstract book			2014	
	Sahare, PD; Moharil, SV;	Production defects in alkali halides: particle size effect	Proceedings of the solid state physics symposium (held at) Bombay (during) December, 1987.	30C	27-31	1988	
	Pandey, A; Sahare, PD; Ingale, NB; Omanwar, SK; Lochab, SP; Kanjilal, D;	Preparation and characterization of nanocrystalline MgB <sub>4</sub> O <sub>7</sub> : Dy for radiation dosimetry using thermoluminescence technique	Proceedings of international conference on luminescence and its applications			2004	
	Salah, Numan; Sahare, PD; Somdrendro, Singh;	TL response of LiF: Mg, Cu, P to 24 Me V of 7 Li <sup>2+</sup> ions	Proceedings of national conference on luminescence and its applications			2005	
	Bokolia, Renuka; Sahare, PD;	TL mechanism of Ba <sub>0.12</sub> Sr <sub>0.88</sub> SO <sub>4</sub> : Eu mixed sulfate phosphor for dosimetric purposes	Proceedings of the international conference on radiation environment-assessment, measurement and its impact: abstract and souvenir			2012	
	Pattanaik, Amitansu; Sahare, PD; Nanda, Maitreyee;	Hydrogen peroxide sensor using laser grade dye Rhodamine B	Proceedings of Advanced Sensor Systems and Applications III	6830	68301D	2007	
	Mandlik, NT; Boraskar, VN; Dhole, SD; Sahare, PD; Kulkarni, MS;	Thermoluminescence study of CaSO <sub>4</sub> : Dy nanophosphors for 6 MeV energy electron dosimetry	Proceedings of the thirtieth IARP conference on radiological protection and safety in nuclear reactors and radiation installations: book of abstracts			2012	
	Kumar, Vipin; Sahare, PD;	Photoluminescence of Cu doped sponge-like porous ZnO nanoparticles synthesized via chemical route	AIP Conference Proceedings	1393	63-64	2011	AIP



	Kumari, Surbhi; Sahare, PD; Gupta, Meenakshi; Kapoor, JC;	Novel Nanostructured Zinc Oxide Ammonia Gas Sensor	AIP Conference Proceedings	1393	219-220	2011	AIP
	Rani, Geeta; Sahare, PD;	Synthesis and Luminescent Properties of Li-doped ZnS Nanostructures by Chemical Precipitation Method	AIP Conference Proceedings	1393	253-254	2011	AIP
	Kumar, Surender; Sahare, PD;	Effect of surface defects on green luminescence from ZnO nanoparticles	AIP Conference Proceedings	1393	159-160	2011	AIP
	Kumar, Sudhisht; Sahare, PD; Kumar, Surender;	Morphological transformations induced by Co impurity in ZnO nanostructures prepared by rf-sputtering and their physical properties	Journal of Materials Science: Materials in Electronics	29	11719- 11729	2018	Springer
	Sahare, PD; Kumar, Sudhisht; Kumar, Surender; Singh, Fouran;	n-ZnO/p-Si heterojunction nanodiodes based sensor for monitoring UV radiation	Sensors and Actuators A: Physical	279	351-360	2018	Elsevier
	Sahare, PD;	NaLi <sub>2</sub> PO <sub>4</sub> based TL and OSL phosphors for radiation dosimetry	Proceedings of the twenty second national conference on luminescence and its applications			2016	
	Sahare, PD;	Nanocrystalline TLD/OSLD phosphors: synthesis, characterization and applications	Proceedings of the twentieth national conference on solid state nuclear track detectors and their applications: abstracts			2017	
	Chauhan, Vishnu; Kumar, Vikas; Kumar, Rajesh; Sahare, PD;	Effect of Tb <sup>3+</sup> co-doping on thermoluminescence properties of Eu <sup>3+</sup> doped NaLi <sub>2</sub> PO <sub>4</sub>	Proceedings of the twentieth national conference on solid state nuclear track detectors and their applications: abstracts			2017	
	V Chauhan, V Kumar, R Kumar, PD Sahare	Effect of Tb <sup>3+</sup> co-doping on thermoluminescence properties of Eu <sup>3+</sup> doped NaLi <sub>2</sub> PO <sub>4</sub>	Proceedings of 20 <sup>th</sup> National Conference on Solid State Nuclear Track Detectors and Their Applications (SSNTDs-20) held at Vidya Vikas Institute of Engineering and Technology, Mysuru (India) in collaboration with the Nuclear Track Society of India, Mumbai (India) during 26-28 Oct 2017.	136	54	2017	
11	PD Sahare	Nanocrystalline TLD/OSLD phosphors: synthesis, characterization and applications	Proceedings of 20 <sup>th</sup> National Conference on Solid State Nuclear Track Detectors and Their Applications (SSNTDs-20) held at Vidya Vikas Institute of Engineering and Technology, Mysuru (India) in collaboration with the Nuclear Track Society of India, Mumbai (India) during 26-28 Oct 2017.	136	31-32	2017	

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