

BRIEF PROFILE (Dr. JAGJEET KAUR SALUJA)

Name	Dr.Jagjeet Kaur Saluja
Designation	Professor
Department	Physics
Date of Birth	07-06-1962
Date of first Appointment	04-02-1986
Date of Regularization	18-06-1987
Specialization in P.G.	Material Science, Electronics
Detail of Research Project	(i) One Major Research Project on TL (Thermoluminescence) completed funded by UGC (ii) Two Minor Research Project on Nanoparticles completed funded by UGC (iii) One minor research project completed funded by CCOST (iv) Mentor of one project WOS-A funded by DST (ongoing)
Residential Address	4/4, Rajani Gandha Colony, Vidyut Nagar Durg (C.G.)
Telephone No. Mobile	09977717571
E-mail Address	jagjeet_62@yahoo.com
Teaching Experience U.G.	35 Years
Teaching Experience P.G.	34 Years
Detail of Research (In brief)	Studies of ML (Zn, Cd)S mixed

**Phosphor with different impurity
doped**

**Whether you are a Recognized
Supervisor for Ph.D. Guidance**

**Yes
07 completed Ph.D
10 registered under supervision and**

co-supervisions

Research Publications	:	Total Research Papers Published →110 • International Journals → 70 • Papers in press in International Journals →03 • International Conferences → 10 • National Conferences → 19 • BOOK PUBLISHED 3 • PATENT AWARD 03 • FELLOW OF LSI AWARD
Research Guidance	:	Student awarded Ph.D. - 07 Students Registered for Ph.D.(Under Process) – 08 Students submitted their M.Phil dissertation – 02
Research Projects	:	1.Major Research Project: Title – TL – Studies of lime stone, calcite and Quartz available in Patharia, Samaria, Rasmada, Nandini and Kodwa areas in Durg district of Chhattisgarh – Characterization of Chemical Composition. Rs. 8, 07, 300/- , Sponsored by University Grants Commission (UGC), sanctioned letter No. F.No. 38 – 88 / 2009 (SR) Dated 19/12/2009 (Ongoing). 2. Minor Research Project: Title – Characterization and TL Studies of Doped ZnS Nanoparticles. Rs. 1,12,500.00 , Sponsored by UGC,vide UGC letter No. F.MS – 43/202008/09 – 10/CRO dated 31Mar 2010 (completed). 3. Minor Research Project: Title: Synthesis and characterization of rare earth doped aluminates based phosphor Rs. 3,95,000/- Sponsored by CCOST 4. Major Research Project under mentorship Title: Synthesis and characterization of zirconium based phosphors for biomedical application 31, 05,000/- funded by

		DST
Area of research interest	:	• Thermoluminescence Studies of Geological Materials. • Synthesis and characterization of nanostructure luminescent materials. • Preparation and characterization of thermoluminescence dosimetry phosphors. • Preparation and characterization of inorganic and organic lamp phosphors. • Development of Optoelectronic materials. • Synthesis and spectroscopic studies of solid-state laser materials. • Growth and study of defects in crystalline and microcrystalline solids. • Mechanoluminescence studies on ZnS and CdS mixed phosphor • Photoluminescence studies on ZnS and CdS mixed phosphor
Research Collaborations with	:	• MS University Baroda (Gujrat), India • RTM University, Nagpur (Maharashtra), India • UGC – DAE, Indore (M.P.), India • ITM University, Gurgaon (Haryana), India • National Institute of Technology, Raipur • Indian Institute of Technology, Kanpur • Department of Geology, Govt.V.Y.T.PG.Auto. College, Durg (C.G), India • ITM University, Raipur • Department of Physics, Govt.V.Y.T.PG.Auto. College, Durg (C.G), India • Indian Institute of Technology, Bomabay • GHENT UNIVERSITY BELGIUM • Military University Poland
Life Membership	:	• ☐ Luminescence Society of India

Publications List:

Detail of Published Paper in International/National Journal/ National Conference/International Conference

TITLE	AUTHORS NAME	JOURNAL	YEAR	ISSN
Synthesis and Luminescence Property of Gd_2SiO_5 Phosphor	Yogita Parganiha, Jagjeet Kaur Saluja, Vikas Dubey, and Ravi Shrivastava	Journal Of Display Technology	2016	1551 - 319X
White Light Emission by Dy^{3+} Doped Phosphor Matrices: A Short Review	Ravi Shrivastava, Jagjeet Kaur, Vikas Dubey	Journal of fluorescence	2016	1573 4994
Effect of Various Cerium Ion Percentages on Photoluminescence and Thermoluminescence Study of Phosphor	Vikas Dubey, Ratnesh Tiwari, Ravi Shrivastava, Chandrabhushan Markande, Omprakash Verma, Jagjeet Kaur Saluja, Yogita Parganiha, KVR Murthy	Journal of Display Technology	2016	1551 - 319X
UV ray-induced thermoluminescence study of $Y_2SiO_5:Ce^{3+}$ phosphor	Yogita Parganiha, Jagjeet Kaur, Vikas Dubey, Deepika Chandrakar, NS Suryanarayana	Research on Chemical Intermediates	2016	0922 6168 , 1568 5675
Luminescence studies on Eu^{2+} and Tb^{3+} doped $Ca_2MgSi_2O_7$ phosphors	Jagjeet Kaur, Ravi Shrivastava, Vikas Dubey, Yogita Parganiha	Journal of Materials Science: Materials in Electronics	2016	0957 - 4523
Study of formation of deep trapping mechanism by UV, beta and gamma irradiated Eu^{3+} activated SrY_2O_4 and $Y_4Al_2O_9$ phosphors	Vikas Dubey, Jagjeet Kaur, Yogita Parganiha, NS Suryanarayana, KVR Murthy	Applied Radiation and Isotopes	2016	096 9- 804 3
Luminescence studies on Eu and Tb doped $CaMgSiO$ phosphors.	Jagjeet Kaur, Ravi Shrivastava, Vikas Dubey, Yogita Parganiha	Journal of Materials Science: Materials in Electronics	2016	0957 - 4523
Characterization and studies on long lasting properties of $Ca_2MgSi_2O_7:Eu^{2+}, Dy^{3+}$ phosphors	Ravi Shrivastava, Jagjeet Kaur	Ferroelectrics	2016	150 193
Photoluminescence Characteristics of Dysprosium Doped CeO Phosphor for White Light Emission	Jagjeet Kaur, Deepika Chandrakar, Vikas Dubey, Ravi Shrivastava, Yogita Parganiha, NS Suryanarayana	Journal Of Display Technology	2016	1551 - 319X
Violet blue emission and thermoluminescence glow curve analysis of $Gd_2SiO_5:Ce^{3+}$ phosphor	Yogita Parganiha, Jagjeet Kaur, Vikas Dubey, Ravi Shrivastava, Deepika Chandrakar	Optik	2016	30
UV Induced Thermoluminescence and Photoluminescence Studies of Sm^{3+} Doped $LaAlO_3$ Phosphor	J Kaur, D Singh, NS Suryanarayana, V Dubey	Journal Of Display Technology	2016	1551 - 319X
Preparation and Photoluminescence of Sm^{3+} Doped $YAlO_3$ Phosphor	HN Baig, JK Saluja, D Harnath, ASS Prasad, KVR Murthy	Journal Of Fluorescence	2016	1573 4994
Synthesis and luminescent behavior of UV induced Dy^{3+} activated $LaAlO_3$	D Singh, J Kaur, NS Suryanarayana, R Shrivastava, V Dubey	Journal of Materials Science: Materials in Electronics	2016	0957 - 4523
Investigation of luminescence	HN Baig, JK Saluja, D Haranath	Optik	2016	30

properties of Dy ³⁺ doped YAlO ₃ phosphors synthesized through solid state method				
Estimation of spectroscopic parameters and colour purity of the red-light-emitting YBa ₃ B ₉ O ₁₈ phosphor: Judd–Ofelt approach	V Dubey, R Tiwari, RK Tamrakar, J Kaur, S Dutta, S Das, HG Visser	Journal Of Luminescence	2016	0022 - 2313
Effect of Cross Linking on the Toxicity of CdTe QDs in Solid/Liquid Medium	P Bichpuria, A Oudhia, P.Kulkarni	IOSR Journal of Biotechnology and Biochemistry (IOSR-JBB)	2017	2455 - 264X
Photoluminescence decay curve analysis of some rare earth doped CeO ₂ phosphors	Deepika Chandrakar, Jagjeet Kaur Saluja, NS Suryanarayana, VikasDubey, Ravi Shrivastava, Yogita Parganiha, Deepti Singh,	Journal Of Materials Science: Materials In Electronics	2017	0957 - 4522
Luminescence and structural properties of Gd ₂ SiO ₅ : Eu ³⁺ phosphors synthesized from the modified solid state method	Yogita Parganiha, Jagjeet Kaur, Neha Dubey, Vikas Dubey, Ravi Shrivastava, SJ Dhoble	Ceramics International	2017	2728 - 842
Intense visible light emission from dysprosium (Dy ³⁺) doped barium titanate (BaTiO ₃) phosphor and its thermoluminescence study	Rajni Singh, Jagjeet Kaur, Purna Bose, Ravi Shrivastava, Vikas Dubey, Yogita Parganiha	Journal of Materials Science: Materials in Electronics	2017	0957 - 4522
Kinetic and TL glow curve analysis of UV-, β- and γ-irradiated natural limestone collected from Chunkatta mines	Vikas Dubey, Jagjeet Kaur, Neha Dubey, Manoj Kumar Pandey, NS Suryanarayana, KVR Murthy	Radiation Effects And Defects In Solids	2017	1042 - 0150
Thermoluminescence glow curve analysis and trap parameters calculation of UV induced La ₂ Zr ₂ O ₇ phosphor doped with gadolinium	Neha Dubey, Vikas Dubey, Janita Saji, Jagjeet Kaur	Materials Science: Materials in Electronics	2019	0957 - 4522
Mechanoluminescence induced by impulsive excitation in CdS and CdSe: Mn, Cu, Ag, Au doped phosphors	J Kaur, N Dubey, R Tiwari, V Dubey, A Pai, SJ Dhoble, HC Swart	Journal Of Materials Science: Materials In Electronics	2019	0957 - 4522
Exploration of Thermoluminescence and Photoluminescence Properties of Eu ³⁺ Doped La ₂ Zr ₂ O ₇ Phosphors	Mamta Parganiha, Vikas Dubey, Ravi Shrivastava, Jagjeet Kaur	Analytical Chemistry Letters	2020	2229 - 7928
Thermoluminescence glow curve analysis and trap parameters calculation of UV-induced La ₂ Zr ₂ O ₇ phosphor doped with gadolinium	N Dubey, V Dubey, J Saji, J Kaur	Journal Of Materials Science: Materials In Electronics	2020	0957 - 4522
Thermoluminescence Studies of β and γ-Irradiated Geological Materials for Environment Monitoring	Gu Cheng-Lin, Vikas Dubey, Kamal Kumar Kushwah, Manish Kumar Mishra, Ekta Pandey, Ratnesh Tiwari, Angesh Chandra, Neha Dubey	Journal of Fluorescence	2020	1573-4994
White light emission and thermoluminescence studies of Dy ³⁺ activated Hardystonite (Ca ₂ ZnSi ₂ O ₇) phosphor	Siteshwari Chandraker, Jagjeet Kaur, Ruby Priya, Vikas Dubey, Neha Dubey	Luminescence	2021	1522 - 7243
Composite nature of thermo luminescence studies in Dy ³⁺ activated Sr ₂ ZnSi ₂ O ₇ phosphor	Siteshwari Chandraker, Jagjeet Kaur, Vikas Dubey, Neha Dubey	Optik	2021	30
Review article on Characterization Techniques and Optical Properties	Siteshwari Chandraker and Jagjeet Kaur Saluja	International Journal of	2021	2394-

of Luminescent Materials		Science, Technology and Management (IJSTM)		152 9
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Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Year of publication	ISBN/ISSN number of the proceeding
DR J. K. SALUJA	Proceedings Of The Twenty Second National Conference On Luminescence	Deep trapping phenomenon of gamma induced thermoluminescence study of Dy doped Y ₂ O ₃ phosphor	Proceedings Of The Twenty Second National Conference On Luminescence	2016	48095948
DR J. K. SALUJA	Proceedings Of The Twenty Second National Conference On Luminescence	Synthesis and photoluminescence study of europium doped SrZrO ₃ phosphor	Proceedings Of The Twenty Second National Conference On Luminescence	2016	48095948
DR J. K. SALUJA	Proceedings Of The Twenty Second National Conference On Luminescence	Mechanoluminescence pattern for rare earth doped oxide based phosphor	Proceedings Of The Twenty Second National Conference On Luminescence	2016	48095948
DR J. K. SALUJA	Proceedings Of The Twenty Second National Conference On Luminescence	Synthesis and characterization of Eu ³⁺ and Tb ³⁺ doped BaY ₂ O ₄ phosphor for display application	Proceedings Of The Twenty Second National Conference On Luminescence	2016	48095948
DR J. K. SALUJA	Proceedings Of The Twenty Second National Conference On Luminescence	Effect of europium doping level on photoluminescence study of La ₂ Ba ₃ O ₇ phosphor	Proceedings Of The Twenty Second National Conference On Luminescence	2016	48095948

	Luminescence		Luminescence		
DR J. K. SALUJA	Proceedings Of The Twenty Second National Conference On Luminescence	Effect of europium ion concentration on Ce ³⁺ doped SrY ₂ O ₄ phosphor	Proceedings Of The Twenty Second National Conference On Luminescence	2016	48095948
DR J. K. SALUJA	Proceedings Of The Twenty Second National Conference On Luminescence	Thermoluminescence glow curve analysis and determination of trapping parameters of borate based phosphors	Proceedings Of The Twenty Second National Conference On Luminescence	2016	48095948
DR J. K. SALUJA	AIP Conference Proceedings	Effect of variable cerium concentration on photoluminescence behaviour in ZrO ₂ phosphor synthesized by combustion synthesis method	AIP Conference Proceedings	2016	48095948
DR J. K. SALUJA	Hybrid Perovskite Composite Materials	Spectroscopic parameters of red emitting Eu ³⁺ -doped La ₂ Ba ₃ B ₄ O ₁₂ phosphor for display and forensic applications		2020	
DR J. K. SALUJA	Hybrid Perovskite Composite Materials	Enhancement of photoluminescence/phosphorescence properties of Eu ³⁺ -doped Gd ₂ Zr ₂ O ₇ phosphor		2020	
DR J. K. SALUJA	Luminescent Materials in Display and Biomedical Applications	Effect of CaZrO₃ Doping by Gd³⁺ on Phototherapy Lamp Phosphor Performance		2020	9.78043E+12
DR J. K. SALUJA	International Conference on Emerging Trends	Mechanoluminescence Induced in Rare Earth Activated Cementations	International Conference on Emerging Trends	2020	

	and Advances in Electrical	Materials	and Advances in Electrical		
DR J. K. SALUJA	Luminescent Materials in Display and Biomedical Applications	Phosphors in Role of Magnetic Resonance, Medical Imaging and Drug Delivery Applications: A Review		2020	9.78043E+12
DR J. K. SALUJA	International Conference on Intelligent Computing and Smart Communication	Determination of Spectroscopic Parameters via Judd–Ofelt Analysis of Eu3+ Doped La2Zr2O7 Phosphor	International Conference on Intelligent Computing and Smart Communication	2020	
DR J. K. SALUJA	International Conference on Intelligent Computing and Smart Communication 2019	Determination of Spectroscopic Parameters via Judd–Ofelt Analysis of Eu3+ Doped La2Zr2O7 Phosphor	Proceedings of ICSC 2019	2020	ISBN 978-981-15-0633-8
Dr. Swagota Bera	Renewable Energy and Sustainable Development	Principal Component Analysis Based Blind Steganalysis for JPEG Steganography	International Conference on Recent Trends in Renewable Energy and Sustainable Development	2020	978-93-5396-776-5
DR J. K. SALUJA	International Conference on Recent Trends in Renewable Energy & Sustainable Development	ESTIMATION OF COLOR PURITY OF EU3+ DOPED MY2O4 (M= BA, CA, SR) PHOSPHOR VIA JUDD- OFELT ANALYSIS	International Conference on Recent Trends in Renewable Energy & Sustainable Development	2020	978-93-5396-776-5

DR J. K. SALUJA	International Conference on Recent Trends in Renewable Energy & Sustainable Development	Synthesis, Photoluminescence and Thermoluminescence study of La ₂ Zr ₂ O ₇ :Eu ³⁺ Phosphor	International Conference on Recent Trends in Renewable Energy & Sustainable Development	2020	978-93-5396-776-6
DR J. K. SALUJA	International Conference on Recent Trends in Renewable Energy & Sustainable Development	Synthesis and Thermoluminescence Study of La ₂ Zr ₂ O ₇ :Gd ³⁺ Phosphor	International Conference on Recent Trends in Renewable Energy & Sustainable Development	2020	978-93-5396-776-7
DR J. K. SALUJA	International Conference on Recent Trends in Renewable Energy & Sustainable Development	Preparation and Characterization of Dy ³⁺ doped Hardystonite (Ca ₂ ZnSi ₂ O ₇) White Light Emitting phosphor	International Conference on Recent Trends in Renewable Energy & Sustainable Development	2020	978-93-5396-776-8
DR J. K. SALUJA	International Conference on Recent Trends in Renewable Energy & Sustainable Development	TL glow curve analysis of Yb ³⁺ doped CaY ₂ O ₄ phosphor	International Conference on Recent Trends in Renewable Energy & Sustainable Development	2020	978-93-5396-776-9
DR J. K. SALUJA	International Conference on Recent Trends in Renewable Energy & Sustainable Development	Synthesis and Photoluminescence Study of europium doped SrZrO ₃ phosphor	International Conference on Recent Trends in Renewable Energy & Sustainable Development	2020	978-93-5396-776-10

DR J. K. SALUJA	International Conference on Recent Trends in Renewable Energy & Sustainable Development	Photoluminescence study of terbium (III) doped Y ₂ SiO ₅ phosphor for high color purity and display application	International Conference on Recent Trends in Renewable Energy & Sustainable Development	2020	978-93-5396-776-11
DR J. K. SALUJA	International Conference on Recent Trends in Renewable Energy & Sustainable Development	Determination of color purity and calculation of spectroscopic parameters for Dy ³⁺ doped RE ₂ SiO ₅ (RE=Y, Gd, La) phosphor via JuddOfelt analysis	International Conference on Recent Trends in Renewable Energy & Sustainable Development	2020	978-93-5396-776-12
DR J. K. SALUJA	International Conference on Recent Trends in Renewable Energy & Sustainable Development	Mechanoluminescence studies on Eu ²⁺ , Dy ³⁺ doped cementitious material for luminescent paint	International Conference on Recent Trends in Renewable Energy & Sustainable Development	2020	978-93-5396-776-13
DR J. K. SALUJA	PHOSPHORS FOR DISPLAY FORENSIC AND BIOMEDICAL APPLICATIONS			2021	

1. Y Parganiha, J Kaur, N Dubey, V Dubey, R Shrivastava, SJ Dhoble, Luminescence and structural properties of Gd₂SiO₅: Eu³⁺ phosphors synthesized from the modified solid state method, *Ceramics International*, (2017) 12 (43), 9084-9091.
2. Deepti Singh, Vikas Dubey, Ravi Shrivastva, Jagjeet Kaur, N.S. Suryanarayana: *Synthesis and luminescent behavior of UV induced Dy³⁺ activated LaAlO₃*. *Journal of Materials Science Materials in Electronics* 11/2016;; DOI:10.1007/s10854-016-5819-0 (IF = 1.798)

3. Jagjeet Kaur, Deepti Singh, N.S. Suryanarayana, Vikas Dubey: *UV Induced Thermoluminescence and Photoluminescence Studies of Sm³⁺ Doped LaAlO₃ Phosphor*. Journal of Display Technology 09/2016; 12(9)., DOI:10.1109/JDT.2016.2546059 (**IF = 1.92**)
4. Vikas Dubey, Ratnesh Tiwari, Raunak Kumar Tamrakar, Jagjeet Kaur, S Dutta, Subrata Das, H G Visser, S Som: *Estimation of spectroscopic parameters and colour purity of the red-light-emitting YBa₃B₉O₁₈ phosphor: Judd- Ofelt approach*. Journal of Luminescence 08/2016; 180., DOI:10.1016/j.jlumin.2016.08.029 (**IF = 2.693**)
5. Jagjeet Kaur Saluja, Yogita Parganiha, Neha Tiwari, Vikas Dubey, Ratnesh Tiwari, Asha Prabhath: *Mechano and Photoluminescence Spectra of Cadmium Sulphide and Cadmium Selenide Doped Phosphors*. Optik - International Journal for Light and Electron Optics 05/2016; 127(19)., DOI:10.1016/j.ijleo.2016.05.011 (**IF = 0.74**)
6. Yogita Parganiha, Jagjeet Kaur, Vikas Dubey, Ravi Shrivastava, Deepika Chandrakar: *Violet Blue emission and thermoluminescence glow curve analysis of Gd₂SiO₅: Ce³⁺ phosphor*. Optik - International Journal for Light and Electron Optics 04/2016; 127(15)., DOI:10.1016/j.ijleo.2016.04.064 (**IF = 0.74**)
7. Vikas Dubey, Jagjeet Kaur, yogita parganiha, N S Suryanarayana, KVR Murthy: *Study of formation of deep trapping mechanism by UV, beta and gamma irradiated Eu³⁺ activated SrY₂O₄ and Y₄Al₂O₉ phosphors*. Applied Radiation and Isotopes 12/2015; 110., DOI:10.1016/j.apradiso.2015.12.047 (**IF = 1.113**)
8. Jagjeet Kaur, Rajni Singh, Purna Bose, Yogita Parganiha, Ravi Shrivastava, Vikas Dubey: *Estimation of Color Purity and Trapping Parameters for Samarium Doped BaTiO₃ Phosphor*. Journal of Display Technology 12/2015; 12(6)., DOI:10.1109/JDT.2015.2508933 (**IF = 1.92**)
9. Jagjeet Kaur, Ravi Shrivastava, Vikas Dubey, Yogita Parganiha: *Luminescence studies on Eu²⁺ and Tb³⁺ doped Ca₂MgSi₂O₇ phosphors*. Journal of Materials Science Materials in Electronics 12/2015; 27(4)., DOI:10.1007/s10854-015-4148-z (**IF = 1.798**)
10. Jagjeet Kaur, Deepika Chandrakar, Vikas Dubey, Ravi Shrivastav, Yogita Parganiha, N.S. Suryanarayana: *Photoluminescence Characteristics of Dysprosium Doped CeO₂ Phosphor for White Light Emission*. Journal of Display Technology 11/2015; 12(5)., DOI:10.1109/JDT.2015.2503330 (**IF = 1.92**)
11. Jagjeet Kaur, Ravi Shrivastava, Vikas Dubey, Yogita Parganiha: *Luminescence Studies on Ba₂MgSi₂O₇ Doped with Eu²⁺ and Tm³⁺ Phosphors*. Journal of Display Technology 11/2015; 12(5)., DOI:10.1109/JDT.2015.2501164 (**IF = 1.92**)
12. Vikas Dubey, Ratnesh Tiwari, Ravi Shrivastava, Chandrabhushan Markande, O.P. Verma, Jagjeet Kaur, Yogita Parganiha, KVR Murthy: *Effect of Various Cerium Ion Percentages on Photoluminescence and Thermoluminescence Study of CaY₂O₄ Phosphor*. Journal of Display Technology 10/2015; 12(2)., DOI:10.1109/JDT.2015.2488359 (**IF = 1.92**)

13. Vikas Dubey, Jagjeet Kaur, Ravi Shrivastava: *White Light Emission by Dy(3+) Doped Phosphor Matrices: A Short Review*. Journal of Fluorescence 10/2015; 26(1)., DOI:10.1007/s10895-015-1689-8 (IF = 1.6)
14. Yogita Parganihaa, Jagjeet Kaur, Vikas Dubey, Ravi Shrivastava, S.J. Dhoble: *Synthesis and luminescence study of BaZrO₃:Eu³⁺ phosphor*. Superlattices and Microstructures 09/2015; 88., DOI:10.1016/j.spmi.2015.09.016 (IF = 2.117)
15. Yogita Parganiha, Jagjeet Kaur, Vikas Dubey, Ravi Shrivastava: *Synthesis and Luminescence Property of Gd₂SiO₅ Phosphor*. Journal of Display Technology 07/2015; 12(1)., DOI:10.1109/JDT.2015.2459654 (IF = 1.92)
16. Yogita Parganiha, Jagjeet Kaur, Vikas Dubey, Deepika Chandrakar, N. S. Suryanarayana: *UV ray-induced thermoluminescence study of Y₂SiO₅:Ce³⁺ phosphor*. Research on Chemical Intermediates 07/2015; 42(3)., DOI:10.1007/s11164-015-2148-5 (IF = 1.833)
17. Yogita Parganihaa, Jagjeet Kaur, Vikas Dubey, Ravi Shrivastava: *YAlO₃:Ce³⁺ powders: Synthesis, Characterization, Thermoluminescence and optical studies*. Superlattices and Microstructures 06/2015; 85., DOI:10.1016/j.spmi.2015.06.011 (IF = 2.117)
18. Ravi Shrivastava, Jagjeet Kaur, Vikas Dubey, Beena Jaykumar: *Luminescence studies on europium- and dysprosium-doped di-strontium magnesium silicate phosphor*. Research on Chemical Intermediates 06/2015; 41(6)., DOI:10.1007/s11164-013-1482-8 (IF = 1.833)
19. Jagjeet Kaur, Deepika Chandrakar, Vikas Dubey, Yogita Parganiha, N. S. Suryanarayana: *Structural and photoluminescence study of CeO₂:Eu³⁺ phosphors*. Optics and Spectroscopy 04/2015; 118(5)., DOI:10.1134/S0030400X15050070 (IF = 0.644)
20. Ravi Shrivastava, Jagjeet Kaur, Vikas Dubey, Beena Jaykumar, Stefano Loreti: *Photoluminescence and Thermoluminescence Investigation of Europium- and Dysprosium-Doped Dibarium Magnesium Silicate Phosphor*. Spectroscopy Letters 03/2015; 48(3)., DOI:10.1080/00387010.2013.872666 (IF = 0.885)
21. Jagjeet Kaur, Yogita Parganiha, Vikas Dubey: *Synthesis, characterization, thermoluminescence and optical studies of Eu³⁺ doped Y₂SiO₅ phosphor*. Superlattices and Microstructures 03/2015; 77(3)., DOI:10.1016/j.spmi.2014.11.010 (IF = 2.117)
22. Vikas Dubey, Jagjeet Kaur, Sadhana Agrawal: *Effect of europium doping levels on photoluminescence and thermoluminescence of strontium yttrium oxide phosphor*. Materials Science in Semiconductor Processing 03/2015; 31., DOI:10.1016/j.mssp.2014.10.052 (IF = 2.264)
23. D. Chandrakar, J. Kaur, V. Dubey, N. S. Suryanarayana, Y. Parganiha: *Infrared and visible emissions of rare-earth-doped CeO₂ phosphor*. Luminescence 03/2015; 30(8)., DOI:10.1002/bio.2881

24. Vikas Dubey, Jagjeet Kaur: *Effect of europium concentration on photoluminescence and thermoluminescence behavior of Y₂O₃:Eu³⁺ phosphor*. Research on Chemical Intermediates 02/2015; (IF = **1.833**)
25. Vikas Dubey, Jagjeet Kaur, Yogita Parganiha, Deepti Singh, N. S. Suryanarayana: *Review of the preparation, characterization, and luminescence properties of Pr³⁺-doped CaTiO₃ phosphors*. Research on Chemical Intermediates 02/2015; 41(6)., DOI:10.1007/s11164-013-1475-7 (IF = **1.833**)
26. Vikas Dubey, Jagjeet Kaur, K.V.R. Murthy, Yogita Parganiha: *Near UV-blue emission from Ce doped Y₂SiO₅ phosphor*. Materials Science in Semiconductor Processing 01/2015; 31(31c)., DOI:10.1016/j.mssp.2014.12.070 (IF = **2.264**)
27. Vikas Dubey, Jagjeet Kaur, Sadhana Agrawal: *Effect of europium doping levels on photoluminescence and thermoluminescence of strontium yttrium oxide phosphor*. Materials Science in Semiconductor Processing 01/2015; 31(C). (IF = **2.264**)
28. Vikas Dubey, Sadhana Agrawal, Jagjeet Kaur: *Photoluminescence and thermoluminescence behavior of Gd doped Y₂O₃ phosphor*. Optik - International Journal for Light and Electron Optics 11/2014; 126(1)., DOI:10.1016/j.ijleo.2014.06.175 (IF = **0.74**)
29. Jagjeet Kaur, Yogita Parganiha, Vikas Dubey, Deepti Singh: *A review report on medical imaging Phosphors*. Research on Chemical Intermediates 10/2014; 40(8)., DOI:10.1007/s11164-013-1132-1 (IF = **1.833**)
30. Jagjeet Kaur, Yogita Parganiha, Vikas Dubey, Deepti Singh, Deepika Chandrakar: *Synthesis, characterization and luminescence behavior of ZrO₂:Eu³⁺, Dy³⁺ with variable concentration of Eu and Dy doped Phosphor*. Superlattices and Microstructures 09/2014; 73., DOI:10.1016/j.spmi.2014.05.009 (IF = **2.117**)
31. Ravi Shrivastava, Jagjeet Kaur, Vikas Dubey, Beena Jaykumar: *Photoluminescence, trap states and thermoluminescence decay process study of Ca₂MgSi₂O₇: Eu²⁺, Dy³⁺ phosphor*. Bulletin of Materials Science 06/2014; 37(4)., DOI:10.1007/s12034-014-0027-0 (IF = **0.895**)
32. Vikas Dubey, Jagjeet Kaur, Sadhana Agrawal: *Effect of europium concentration on photoluminescence and thermoluminescence behavior of Y₂O₃:Eu³⁺ phosphor*. Research on Chemical Intermediates 03/2014; 41(7)., DOI:10.1007/s11164-014-1563-3 (IF = **1.833**)
33. Vikas Dubey, Jagjeet Kaur, Sadhana Agrawal, N.S. Suryanarayana, K.V.R. Murthy: *Effect of Eu³⁺ Concentration on Photoluminescence and Thermoluminescence behavior of YBO₃:Eu³⁺ Phosphor*. Superlattices and Microstructures 03/2014; 67., DOI:10.1016/j.spmi.2013.12.026 (IF = **2.117**)
34. Vikas Dubey, Sadhana Agrawal, Jagjeet Kaur: *Effect of Eu³⁺ Concentration on Luminescence Studies of Y₄Al₂O₉ Phosphor*. 02/2014; 2014., DOI:10.1155/2014/367378

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51.	Effect of co-dopant concentration on photoluminescence properties of Sr ₂ MgSi ₂ O ₇ : Eu ²⁺ , Dy ³⁺ phosphor	Ravi Shrivastava, Jagjeet Kaur, Vikas Dubey	Advance Physics Letter	2014	16-18
52.	Photoluminescence behavior of rare-earth ion (Eu ³⁺)doped cerium oxide	¹ Jagjeet Kaur, ¹ DeepikaChandrakar, ² Vikas Dubey, ¹ N.S. Suryanarayana	Advance Physics Letter	2014	19-21
53.	Synthesis and luminescence study of Eu ³⁺ doped Lanthanum Aluminate phosphor	¹ Jagjeet Kaur; ¹ N.S.Suryanarayana; ¹ Deepti Singh; ² Vikas Dubey; ¹ Deepika Chandrakar	Advance Physics Letter	2014	22-25
54	Photoluminescence and Thermoluminescence study of europium doped YAM phosphor	P Upadhyay, D Verma, A Bourase, DS Prasad, V Dubey, R Tiwari; ¹ Jagjeet Kaur;	International Journal of Luminescence and Applications	2015	239
55	Near UV blue emission from cerium doped	V Dubey, J Kaur, R Tiwari, ¹ Chandrabhushan,	International Journal of Luminescence	2015	211

	BaY2O4 phosphor	Y Parganiha;	and Applications		
56	Blue emission from cerium doped strontium yttrium oxide phosphor	V Dubey, J Kaur, R Tiwari, Chandrabhushan, Y Parganiha	International Journal of Luminescence and Applications	2015	187
57	YAlO3:Ce3+ powders: Synthesis, Characterization, Thermoluminescence and optical studies	Yogita Parganihaa, Jagjeet Kaura, Vikas Dubey	Superlattices and Microstructures	85 (2015)	410–417
58	Structural and photoluminescence study of CeO2:Eu3+ phosphors	Jagjeet Kaur, Deepika Chandrakar, Vikas Dubey	Optics and Spectroscopy	118 (5), 2015	742-747
59.	Infrared and visible emissions of rare-earth-doped CeO2 phosphor	VD D. Chandrakar, J. Kaur	Luminescence	2015	DOI: 10.1002/bio.2881
60.	Near UV–blue emission from Ce doped Y2SiO5 phosphor	Yogita Parganihaa, , Jagjeet Kaura, Vikas Dubey	Materials Science in Semiconductor Processing	31C 2015	715-719
60.	Synthesis, characterization, thermoluminescence and optical studies of Eu3+ doped Y2SiO5 phosphor	Yogita Parganihaa, , Jagjeet Kaura, Vikas Dubey	Superlattices and Microstructures	77, 2015	152-161
61.	Synthesis and Thermoluminescence Study of Y2Zr2O7: Eu3+ Phosphor	Jagjeet Kaur , Yogita Parganiha , Arun Kumar Sahu, Vikas Dubey , Ravi Shrivastava, Deepika Chandrakar1 and Deepti Singh1	International Journal of Luminescence and Applications	Vol. 5, No. 2, June 2015. Article ID: 091.	pp.208-210

Proceedings of National /International Conferences:

S.No.	Title of Paper	Authors	Conferences
62.	Study and kinetic parameter of limestone	Jagjeet Kaur; Suryanarayana N.S.; Vikas Dubey; Soni	NCPA-2010 Bangalore ISBN 978-81-910787-1-8

		singh, neha rajput	
63.	Comparative study of ML and PL spectra of different impurity doped (Zn, Cd)S mixed phosphor	Jagjeet Kaur; Suryanarayana N.S.; Vikas Dubey	NCPA-2010 Bangalore ISBN 978-81-910787-1-8
64.	Studies on the TL and ML of Silver Doped (Zn, Cd)S Mixed Phosphors	Brijlata Sharma, Jagjeet Kaur, N.S. Suryanarayana; Vikas Dubey	National conference on recent trends in Physics of solids 2011 ISBN : 978- 93-81583-24-1
65.	Kinetics and TL Glow Curve Study of Eu^{3+} Doped YBO_3 Phosphors	Jagjeet Kaur, N.S. Suryanarayana, Beena Jaykumar, Vikas Dubey, Huma Nazli Baig, Ravi	National conference on recent trends in Physics of solids 2011 ISBN : 978-93- 81583-24-1
66.	Kinetics and TL Glow Curve Study of Eu^{3+} Doped Y_2O_3 Phosphors	Jagjeet Kaur, N.S. Suryanarayana, Ravi Shrivastava, Vikas Dubey, Beena Jaykumar, Huma Nazli Baig	National conference on recent trends in Physics of solids 2011 ISBN : 978- 93-81583-24-1
67.	Kinetics and TL Glow Curve Study of Eu^{3+} Doped YAlO_3 Phosphors	Jagjeet Kaur, N.S. Suryanarayana, Neha Rajput, Vikas Dubey	National conference on recent trends in Physics of solids
68.	Effect of Annealing Temperature of Beta Irradiated Calcite	Vikas Dubey, Jagjeet Kaur, N.S. Suryanarayana, K.V.R. Murthy	National conference on recent trends in Physics of solids 2011 ISBN : 978-93-81583-24-1
69.	TL and PL study of beta irradiated Bhutanese stone collected from Bhutan	Jagjeet Kaur, N.S. Suryanarayana, Vikas Dubey, Sadhana Agrawal, K.V.R. Murthy	International Conference on Luminescence and Application 2012 ISBN 81-6717-806- 5
70.	TL glow curve analysis of beta irradiated Eu^{3+} doped $\text{Y}_4\text{Al}_2\text{O}_9$ Phosphor	Jagjeet Kaur, N.S. Suryanarayana, Vikas Dubey, Sadhana Agrawal, K.V.R. Murthy	International Conference on Luminescence and Application 2012 ISBN 81-6717-806-5
71.	Kinetics and TL glow curve study of Amarnath stone collected from Amarnath Holy cave	Jagjeet Kaur, N.S. Suryanarayana, Vikas Dubey, Sadhana Agrawal, Ravi shrivastava	International conference on Science congress association 2011 Indore
72.	TL and PL study of beta irradiated calcite collected from semaria mines of C.G. basin	Jagjeet Kaur, N.S. Suryanarayana, Vikas Dubey, KVR Murthy	AICON, 2012 CSIT, Durg
73.	Comparative study of TL glow curve and kinetics of pure and	Jagjeet Kaur, N.S.Suryanarayana,	AICON, 2012 CSIT, Durg

	doped SrAl_2O_4 phosphor	Ravi Shrivastava, Vikas Dubey	
74.	Annealing effect of gamma irradiated limestone collected from Chunkatta mines	Jagjeet kaur, N.S.Suryanarayana, Vikas Dubey, KVR Murthy, S.J.Dhoble	Presented in National Conference organised at Govt. Science college Raipur

75.	Synthesis and Characterization of Eu^{3+} doped YBO_3 Phosphor	Vikas Dubey; Jagjeet Kaur; N.S. Suryanarayana; Ravi Shrivastav; Sadhana Agrawal; K. V. R. Murthy	NCLA 2013 Bangalore
76.	Thermoluminescence and chemical characterization of natural quartz collected from Bhutan	Jagjeet Kaur; Vikas Dubey; Sadhana Agrawal; N.S. Suryanarayana; Ravi Shrivastava; K. V. R. Murthy; S.J.Dhoble	NCLA 2013 Bangalore
77.	TL glow curve analysis of beta irradiated Eu^{3+} doped SrY_2O_4 phosphor	Vikas Dubey; Jagjeet Kaur; N.S. Suryanarayana; Ravi Shrivastav; Sadhana Agrawal; K. V. R. Murthy	RAM 2013 ISBN No. 978-93-80858-36-4
78.	Heating rate effect on the TL glow curve of Natural Amarnath Stone	Vikas Dubey; Jagjeet Kaur; N.S. Suryanarayana; K. V. R. Murthy	RAM 2013 ISBN No. 978-93-80858-36-4
79.	Synthesis and characterization of Eu doped $\text{Y}_4\text{Al}_2\text{O}_9$ Phosphor	Vikas Dubey	XI young scientist congress organised by CCOST
80.	Thermoluminescence of Amarnath stone – Brief review	Vikas Dubey; Jagjeet Kaur; N.S. Suryanarayana; K. V. R. Murthy	National conference on emerging trends in science, technology and management , KITE, raipur
81.	Effect of temperature on ML studies of $\text{CdS}:\text{Cu}$ phosphor	Jagjeet Kaur, Vikas Dubey, N.S.Suryanarayana	ICNC, 2011, Kottayam Kerla
82.	Effect of Er, Yb doped SrY_2O_4 phosphor	Vikas Dubey; Jagjeet Kaur; N.S. Suryanarayana; K. V. R. Murthy	Vasavi college, Hyderabad APMS 2013
83.	Thermoluminescence study of Eu^{3+} doped LaAlO_3 Phosphor	Jagjeet Kaur; Deepti Singh ;Vikas Dubey ; Deepika Chandraker ; Yogita Parganiha; N.S.Suryanarayana	NCLA 2014 Jabalpur
84.	Photoluminescence study of Eu^{3+} doped CeO_2 Phosphor	Jagjeet Kaur; Deepti Singh ;Vikas Dubey ; Deepika Chandraker ; Yogita Parganiha; N.S.Suryanarayana	NCLA 2014 Jabalpur
85.	Effect of Eu^{3+} concentration on thermoluminescence studies of $\text{Y}_4\text{Al}_2\text{O}_9$ phosphor	Vikas Dubey, Jagjeet Kaur, Sadhana Agrawal, N.S.Suryanarayana and	NCLA 2014 Jabalpur

86.	Effect of Eu^{3+} concentration on Photoluminescence study of SrAl_2O_4 Phosphor	Jagjeet Kaur; Beena Jaykumar; Vikas Dubey; *Renu Tripathi; Ravi Shrivastava	NCLA 2014 Jabalpur
87.	Luminescence behaviour on rare earth doped phosphor for white light emitting diode	¹ Stella Naik; ¹ Vibha Shukla; ² Vikas Dubey; ² Ratnesh Tiwari	International conference ETEICE ISBN 973-3-542-24819-7
88.	Synthesis and optical behaviour of some phosphors for display device applications	¹ Praveen Tiwari; ¹ Md. Khwaja Mohiddin; ² Vikas Dubey; ² Ratnesh Tiwari	International conference ETEICE ISBN 973-3-542-24819-7
89.	Thermoluminescence and its kinetics of Dy^{3+} doped YAM ($\text{Y}_4\text{Al}_2\text{O}_9$) Phosphors	Diksha Verma, Abhinav, Shubham, Vikas Dubey, Jagjeet Kaur	All India conference on "INTELLIGENT SYSTEM IN PHYSICS", April 25 th - 26 th , 2014, ISBN : 978-81-923288-2-9
90.	Evaluation of kinetic parameters of UV and gamma irradiated natural calcite	Vikas Dubey; Jagjeet Kaur; N.S.Suryanarayana; KVR Murthy	All India conference on "INTELLIGENT SYSTEM IN PHYSICS", April 25 th - 26 th , 2014, ISBN : 978-81-923288-2-9

Other Responsibilities

1. IQAC coordinator
2. NAAC coordinator 2017 (institute received A+ grade)
3. Member of inspection committee, Durg University Durg
4. Chairperson Board of studies 2017
5. Member of board of studies Durg University
6. Member of board of studies Govt. V.Y.T.PG. Auto. College Durg
7. Member of board of studies other colleges of Chhattisgarh state
8. Resource person of National and International conferences
9. Organizing committee member of INSPIRE 2016, 2017, 2018
10. Member of central board of studies
11. Member of organizing committee of Chhattisgarh Young Scientist congress 2017.
12. Member of inspection committee of Durg University for affiliation.
13. Life member of Indian Association of Physics Teacher
14. In-charge of Computer Science Department.
15. Member of UGC cell of college.
16. Member of purchase committee of college.
17. Member of grievances cell of college.
18. Member of result committee of college.
19. Member of committee of inspection for affiliation as subject expert at different institute for higher education.
20. Editor-in-chief of journal Advance Physics Letter.

21. Reviewer of International Journal Springer
22. Member of Finance committee
23. Member of fixation committee
24. Resource person for NAAC preparation at different workshops.
25. Delivered invited lectures for S.S.R. preparation and marking scheme for NAAC accreditation.