

Contents

Keynote Lecture

- 1. Compensation Mechanisms of Ln^{3+} Replacing Divalent Cations in Dielectric Compounds**

Marek Grinberg

Plenary Talks

- 2. Luminescence techniques for resolving Issues of public concern: PL, TL and OSL in the detection of Synthetic Diamonds**

M.D.Sastry

- 3. Study of uranium luminescence in borophosphate and aluminoborate hosts**

B.S.Panigrahi and Annapurna Rout

- 4. Tunable luminescence of various rare earth activators for the generation of white light**

S. J. Dhoble

- 5. Controlling the Triple Luminescence by Environment**

Minati Das, Saugata Sahu, Aditya Kumar Bharti and G. Krishnamoorthy

Invited Talks

- 6. The role of host defects in the stabilization of Eu^{2+} oxidation state**

Przemysław Dereń, Dagmara Stefańska, Grzegorz Banach, Bartosz Brzostowski and Piotr Wiśniewski

- 7. Renewable Energy Sources**

K.V. Ramanujachary

- 8. Optical Properties of Coumarins: Spectroscopic Measurements and First Principles Calculations**

Ravindra Pandey

- 9. Age models for D_e distributions applied to OSL dating of Holocene fluvial Terraces from Amazon basin**

Sonia Hatsue Tatumi, Márcio Yee, Juan Carlos Ramirez Mittani, Emílio Alberto Amaral Soares, Eliezer Senna Gonçalves Júnior and Marcel Silva Passos

- 10. Blue organic light emitting diodes: Challenges and future perspectives**

Sivakumar Vaidyanathan

- 11. Alternative Hole Transporting Materials for Perovskite Solar Cells**

Lingamallu Giribabu

- 12. Luminescence based dosimetry: Indian scenario**

D. K. Koul

- 13. Investigation of Photoluminescence, Thermoluminescence and Optically stimulated luminescence properties of CaB_4O_7 nanoparticles doped with different concentrations of Dy^{3+}**

Ritesh Hemam, L. Robindro Singh and S. Dorendrajit Singh

- 14. Innovative Electroluminescent Display from Phosphor-CNT Hybrid**

D. Haranath and Sonal Sahai

- 15. Fluorescence Resonance Energy Transfer between Quantum Dots and Fluorescent Dyes/Biomolecules**
S.R. Inamdar, M.I.Savdatti, Laxmi S. Inamdar, B.G. Mullimani, B.N. Jagatap
- 16. Visible Quantum Cutting Phosphors under VUV Excitation**
S. K. Omanwar
- 17. Phosphors for White Light Emitting Diodes Past Present and Future**
K.V.R. Murthy
- 18. Nanocrystalline tld/osld phosphors**
P. D. Sahare
- 19. An Overview on developments in TL/OSL Instrumentation and Phosphors in India**
J. Narender Reddy
- 20. Evolution and Application Methods in LED phosphors- A review**
Vijay Kumar Gupta Kopuri
- 21. Thermoluminescence of undoped and Dy doped Ca/Sr carbonate powder and pellets in the high dose region**
Arunachalam Lakshmanan, J. Nandha Gopal, Bhaskar Sanyal and Bhushan Dhabekar
- 22. Optical Characterization of Ce³⁺ and Tb³⁺ singly doped and co-doped CaSrAl₂SiO₇ phosphors**
Nameeta Brahme and Shweta Sharma
- 23. Electro-luminescence from inorganic materials in the powder form for solid state lighting applications**
V. Sudarsan
- 24. The Origin of Fluvial Terraces in Himalayas: Tectonic or Climate (a case from North Bengal Himalayas)**
Manoj K. Jaiswal and Atul K. Singh
- 25. LED Lamp Challenges and Way forward**
Sachinkumar Shah
- 26. Photoluminescence and Electrical Properties of Hydrogen Incorporated ZnO NWs Films**
Ajay K. Kushwaha
- 27. Electroluminescence of Nanocrystalline Ternary Cadmium Zinc Selenide**
Meera Ramrakhiani

Technical Talks

- 28. A Comparative study of OSL decay at elevated and room temperature for synthetic quartz**
Y. D. Kale and Y. H. Gandhi
- 29. Persistent Luminescence Mechanism: A Brief Review** *A. Nabachandra Singh, S. Bidyaswar Singh and N. Ibobi Singh*
- 30. Photoluminescence Studies of Rare Earth Doped Sr₂GdTaO₆ Phosphor**
M. Srinivas, Verma Vishwanath, Nimesh Patel and K.V.R. Murthy
- 31. Radio Luminescence and Optimization of Mn²⁺ and Cu²⁺ concentrations BaSO₄ nanoparticles: CGCD to determine trapping parameters**
L. Robindro Singh and S. Dorendrajit Singh

- 32. Defect induced luminescence in different oxide matrices: An alternative to present activator doped phosphor materials**
Nimai Pathak
- 33. Luminescence dosimetry of borates and retrospective dosimetry programs at IGCAR**
M. T. Jose, O. Annalakshmi, S. Jakathamani and B. Venkatraman
- 34. Effect of Gamma and Proton beam irradiation on optical properties of Polystyrene/Al₂O₃ polymer nanocomposites**
N. L. Singh
- 35. SHI, γ , UV and β ray induced defects in Y₂O₃:Dy³⁺ nanophosphors**
B. N. Lakshminarasappa, N. J. Shivaramu, K. R. Nagabhushana and Fouran Singh
- 36. Nanostructures for WLEDs and authentication for latent fingerprints visualization under diverse environmental conditions**
H. Nagabhushana
- 37. Ionoluminescence and crystal field analysis of aluminum oxide phosphor**
S. Satyanarayana Reddy, K. R. Nagabhushana and Fouran Singh
- 38. TL and OSL based environmental monitoring at Bharati research Station, Antarctica**
N. S. Rawat, S. Kadam, D. R. Mishra, B. Dhabekar, A. K. Bakshi and D. K. Koul
- 39. Low Cost Hybrid Experimental set up for Mechanoluminescence Excitation**
R. K. Rai, R. S. Kher, S. J. Dhoble and N. Divya
- 40. Synthesis and luminescence properties of Li⁺ co-doped CaTiO₃:Sm³⁺ nanophosphor for solid state display applications**
Vijaya V. Shanbhag, S. C. Prashantha, H. P. Nagaswarupa, D. M. Jnaneshwara and H. Nagabhushana
- 41. Eu²⁺ doped Nano BAM for Photonic Applications**
A. S. Sai Prasad, A. P. Zambare and K. V. R. Murthy
- 42. Strong Eu³⁺ emission in Ca_{3-3x/2}(VO₄)₂:xEu (0.01 ≤ x ≤ 0.09) Phosphors**
K. N. Shinde
- 43. Synthesis and Characterization of Eu³⁺ and Tb³⁺ doped BaY₂O₄ phosphor for display application**
Jagjeet Kaur Saluja
- 44. Strategic Design for Tunable Light Emissive Eu(III) Complexes: Experimental and Theoretical Approach**
B. Rajamouli, V. Sivakumar and D. Paez-Hernandez
- 45. Simple techniques for the characterization of phosphors**
S. Masilla Moses Kennedy
- 46. Design and Synthesis of Upconversion, Quantum Cutting and Persistent Phosphors for energy-harvesting and defense application**
Sudeshna Ray
- 47. Could thermo luminescence have wider applications in biological systems**
P. Vivek Vardhan and Lata I. Shukla
- 48. Alternative Emitters for Future OLEDs Technology**
Kiran R. Surati
- 49. Trap spectroscopy of Al₂O₃:C in the new general order kinetics formalism**
L. Lovedy Singh, S. Nabadwip Singh and Th. Ranjan Singh

- 50. Structural and optical characterization of Dy³⁺ Doped Ca₃MgSi₂O₈ Phosphors**
D. P. Bisen and Pradeep Dewangan
- 51. Recent advancement in field of TL/OSL instrumentation in BARC India**
D. R. Mishra, V. Morey, S.S. Sutar and D.K. Koul
- 52. Towards better insights into feldspar luminescence - an advanced review**
P. Morthekai, R. H. Biswas, S. Chawla, S. K. Sharma, V. Pagonis, and A. K. Singhvi
- 53. Photoluminescence, XRD, AFM, XRFL, MASS SPECTRAL, CHNS, INFLUX, Beam Displacement OF L-Alanine L-Alaninium Picrate monohydrate crystals**
K. Senthilkannan
- 54. Improved photoluminescence intensity from compensation of the charge-imbalance in Ca₃Mg₃(PO₄)₄:Eu³⁺ phosphor**
Govind B. Nair, H. C. Swart and S. J. Dhoble
- 55. Photon upconversion luminescence in fluoride based materials**
Ashwini Kumar, S.J. Dhoble, J.J. Terblans and H.C. Swart
- 56. Logic Operation Based on FRET Switching of Carbon Quantum Dot and Gold Nanoparticle for Inhibition and Reactivation of Acetylcholinesterase: Detection of Organophosphorus and Carbamate Pesticides**
Manmohan L. Satnami
- 57. Efficiency Enhancement in CdTe/(Cd_xZn_{1-x})S Multijunction Solar Cell**
Ayush Khare
- 58. Upconversion behaviour of Er³⁺/Yb³⁺ activated Gd₂O₃ nano - rod for magnetic resonance and drug delivery applications**
Vikas Dubey, Neha Dubey, Jagjeet Kaur and K. V. R. Murthy
- 59. Mechanoluminescent properties of mixed aluminate systems** *N. Gopakumar, S. Sajan and P. S. Anjana*
- 60. Changing behavior of Photoluminescence and mechanoluminescence with Eu Concentration in Y₂O₃ Nanophosphors**
R.K. Kuraria, S.R. Kuraria, N.R. Jha and Sapanasingh
- 61. Multifunctional Tri-doped NaGdF₄:Yb,Er,(Mg/Fe/Ag) Upconversion Nanophosphors for Biomedical Applications**
S. Yamini, M. Gunaseelan, L. Anbharasi, G. A. Kumar, Dhiraj K Sardar, J. Manonmani, Swati Singh, SriSivakumar, A. Girigoswami and J. Senthilselvan
- 62. Tb³⁺ doped LiMgPO₄ nanophosphor for C⁶⁺ ion beam and γ- ray dosimetric application**
Karan Kumar Gupta, S.J. Dhoble and Sudipta Som
- 63. White light emitting Er³⁺/Tm³⁺/Yb³⁺ Co-doped zirconium titanate nano phosphor**
A. Sangeetha, Chikkahanumantharayappa and B. M. Nagabhushana

Oral Presentation

- 64. Luminescence properties of BaCeO₃: Eu³⁺ phosphor**
Sitakanta Panda, P. Vinodkumar, U. Madhusoodanan and B. S. Panigrahi

- 65. Luminescence of Eu(III) with furan mono-carboxylates in aqueous medium: Ligand sensitization and computational studies** Satendra Kumar, S. Maji, N. Ramanathan, K. Sundararajan and K. Sankaran
- 66. Synthesis and Photoluminescence properties of Lu³⁺-doped LaBO₃ phosphor for Solid state lighting**
G. Rajkumar, J. Nandha Gopal, A. Azhagiri and V. Ponnusamy
- 67. Studies on the Photoluminescence Properties of Sr_{3-x}MgSi₂O₈:Eu³⁺ (x = 1.0, 2.0, 3.0) Phosphors by Solid State Reaction Method**
Pradeep Dewangan, D. P. Bisen, NameetaBrahme, Shweta Sharma, Ishwar Prasad Sahu, Raunak Kumar Tamrakar and K. V. R. Murthy
- 68. Poly (acrylic acid) functionalized YVO₄:Eu³⁺ nanocrystals as luminescent probe for selective sensing of Cu²⁺ ions**
RanjoyWangkhem and N. Shanta Singh
- 69. A comparative study of structural and optical properties of Eu³⁺ and Gd³⁺ ions modified BaZr_{0.05}Ti_{0.95}O₃ ceramics**
G. Nag Bhargavi, T. Badapanda, A. Khare and NameetaBrahme
- 70. Synthesis and Characterization of High-Performance Solar Cell**
Aloke Verma, A. K. Diwakar, R. P. Patel and Anita Verma
- 71. Gamma-irradiated GdCa₄O(BO₃)₃ phosphor for Lyoluminescence study**
Girish C Mishra, R. S. Kher, S. J. Dhoble and Ritesh Sharma
- 72. Cr³⁺-doped zinc gallate nanophosphor for temperature sensing**
Amba Mondal and J. Manam
- 73. Development of Mechanoluminescent Optical Fiber Sensor**
Piyush Jha, AyushKhare, Pranav Singh, Gajendra Singh and V. K. Chandra
- 74. Organic Light- Emitting Diodes For Solid State Lighting**
V. K. Chandra
- 75. Charging and Discharging in persistent Phosphors: The Case of SrAl₂O₄:Eu²⁺,Dy³⁺**
Ngangbam Chandrasekhar and R. K. Gartia
- 76. How uncertainty goes with order of kinetics of thermoluminescence: A fuzzy set theory approach**
Manish K. Sahai, C. Sneha, A. K. Bakshi and D. Datta
- 77. Optical Properties of Novel Orange-Red Light Emitting Sm³⁺ Activated Sr₃Al₁₀Si₂₀ Phosphor**
Shweta Sharma, NameetaBrahme, D. P. Bisen, Pradeep Dewangan, ShalintaTigga, Geetanjali Tiwari, I. P. Sahu, PritiBalaTaunk and Sanjay Kumar Sao
- 78. Luminescence properties of 2 % Eu doped Meta-Silicates**
Amol Nande, Swati Raut, Nilesh Thakre and S. J. Dhoble
- 79. Photoluminescence properties of Eu³⁺ activated SrBaSiO₄ Phosphor**
D. B. Chaudhari, P.Z. Zambare, R. R. Kinge and H. O. Mahajan
- 80. Structural and Optical Properties of Europium doped StrontiumZirconium SilicatePhosphor**
Ishwar Prasad Sahu, D. P. Bisen, N. Brahme andK.V.R. Murthy

- 81. Synthesis and Characterization of ZnO over Au coated optical fiber for ammonia detection in aqueous medium**
Shailendra Kr Singh, Debjit Dutta, Shyamal Das, Anirban Dhar and M. C. Paul
- 82. Tuning of emission colors (400 – 600 nm) of aqueous stable and ambient-light excitable $\text{Sr}_2\text{MgSi}_2\text{O}_7:\text{Eu}^{2+}, \text{Dy}^{3+}$ long afterglow phosphor**
Vishnu V. Jaiswal and D. Haranath
- 83. Efficient white light emission of Dy^{3+} and Eu^{3+} co-doped phosphors**
Kanchan Mondal and J. Manam
- 84. In situ Chemical Bath Deposition of Nanocrystalline CdS thin films for solar cell photovoltaic Applications**
Rajesh Lalwani, R. Das and Brijlata Sharma
- 85. Study of color tunability and energy transfer mechanism in $\text{Dy}^{3+}/\text{Eu}^{3+}$ co-doped calcium aluminozincate phosphor**
Sumandeep Kaur, A. S. Rao, and M. Jayasimhadri
- 86. Highly sensitive detection of human sweat pores by cyan emitting fluorescent powders prepared via one-pot Hydrothermal Route**
R. B. Basavaraj, Yashwanth V. Naik and H. Nagabhushana
- 87. Perovskite-Based Solar Cells : Materials, Methods and Future Perspectives**
R. S. Singh
- 88. Mechanoluminescence characteristics of γ - irradiated and Eu^{3+} activated $\text{Li}_6\text{Y}(\text{BO}_3)_3$ phosphor**
Renu Nayar, Mrunal M. Yawalkar, A. K. Sahu, Vinit Nayar and S. J. Dhoble
- 89. EVI parameters of Cu^+ doped barium sulphide phosphor**
Sumedha Tamboli and S. J. Dhoble
- 90. Synthesis and luminescence properties of Eu^{3+} doped $\text{La}_2(\text{MoO}_4)_{3-x}\text{A}_x$ [$\text{A} = \text{PO}_4, \text{SO}_4, \text{VO}_4$] phosphors for White Light Emitting Diode**
Yatish R. Parauha and S. J. Dhoble
- 91. Investigations on zinc metal chelate (Znq_2) under various environments**
N. Thejo Kalyani and S. J. Dhoble
- 92. Luminescence of Dy^{3+} in $\text{Li}_6\text{Gd}(\text{BO}_3)_3$ phosphor**
Mrunal M. Yawalkar, Renu Nayar, Vinit Nayar, Birendra Singh and S. J. Dhoble
- 93. TL properties of 80 MeV C^{6+} ion irradiated $\text{Al}_2\text{O}_3:\text{Tb}^{3+}, \text{Tm}^{3+}$ phosphor for medical application**
S. Satyanarayana Reddy, K. R. Nagabhushana and Fouran Singh
- 94. Dosimetric characterization of a new neutron sensitive TL phosphor material**
Meghnath Sen, Rakesh Shukla, Shashwati Sen, V. Sathian, M. S. Kulkarni and A. K. Tyagi
- 95. Preliminary investigation of active tectonic signature in the foothill zone of NW Himalaya using remote sensing and GIS**
Asmita Mohanty and M. B. Rajani
- 96. Orange light emitting Polypyrrole/ $\text{CaTiO}_3:\text{Sm}^{3+}$ nano-composites for solid state lighting applications**
Hajeebaba K. Inamdar, M. V. N. Ambika Prasad, R. B. Basavaraj and H. Nagabhushana
- 97. Preparation of $\text{Sr}_2\text{SiO}_4:\text{Dy}^{3+}$ phosphors by solid-state reaction method and their thermoluminescence properties**

R. P. Patel, Durga Verma

98. Thermoluminescence studies of undoped $M_2ZnSi_2O_7$ phosphor (M = Ca, Ba, Sr)
Yugbodh Patle, Nameeta Brahma, D. P. Bisen, Tripti Richhariya, Sanjay Baghel, Ekta Chandravansi, Ravison Patel and Anil Choubey

99. Combustion Synthesis and Thermoluminescence Properties of $CaB_6O_{10}:Cu$ Phosphor

Z. S. Khan, N. B. Ingale and S. K. Omanwar

100. Tailoring of C1-Functionalised Phenanthro-imidazole based Eu(III) complexes : A study of photo-physical and electrochemical properties

Rachna Devi and Sivakumar Vaidyanathan

101. Activators Dependent Downconversion Phosphors for Enhancement of Efficiency of Solar Cell

N. S. Satpute and S. J. Dhoble

102. Photoluminescence of Eu^{3+} Activated Zn_2GeO_4

P. B. Lakshmi Prasanna, P. Sai Raju, S. Kondal Rao, S. K. Erfan, B. Subba Rao and K. V. R. Murthy

103. Synthesis and Structural Characterization of Hierarchical $YAlO_3:Ce^{3+}$ Architectures: Nano Probe for Advanced Forensic Applications

G. P. Darshan, H.B. Premkumar and H. Nagabhushana

104. Study of Photoluminescence properties of $CeP_5O_{14}:Tb^{3+}$

S. U. Bhonsule and S. P. Wankhede

105. Synthesis, Characterization and Sonoluminescence Study of Silicon Carbide Nanoparticles

R. D. Chavhan, N. R. Pawar, O. P. Chimankar and S. J. Dhoble

106. Investigation of Multimodal emission of $Y_2O_3:Ho^{3+}$, Yb^{3+} nano-phosphor and its application in Dye-Sensitized Solar Cells

Prachi Tadge and Sudeshna Ray

107. ZnS nanostructures (0 to 3D): Critical parameters in modulating photoluminescence properties

Ashish Tiwari and S. J. Dhoble

108. Determination of activation energy and order of kinetics of thermoluminescence peaks recorded with hyperbolic heating scheme

S. K. Azharuddin, Ananda Sarkar, Indranil Bhattacharyya, Sukhomoy Bhattacharyya, P. S. Majumdar and S. D. Singh

109. Pr doped copper indium sulphide thin films synthesized by chemical bath deposition method

Sumita Sengupta, Mimi Akash Pateria and Kusumanjali Deshmukh

Poster Presentation

110. A Study of Energy transfer From UO_2^{2+} to Sm^{3+} in $SrBPO_5$

P. Vinodkumar, Sitakanta Panda, U. Madhusoodanan and B.S.Panigrahi

111. Structural and optical properties of cerium doped Strontium borophosphate glasses

P. Ramakrishna, S. K. Panda, P. Vinod Kumar, D. K. Mohapatra, H. N. Jena and B.S.Panigrahi

112. **Effect of rare earths doping on the luminescence characteristics of the Sr₂CeO₄ phosphor**
Pradip Z Zambare, A. P. Zambare, M. M. Chaudhari, D. P. Chaudhari and O. H. Mahajan
113. **Thermoluminescence (TL) properties of some rare-earth doped BaMg₁₀O₁₇ phosphor**
A. P. Zambare, S. D. Kadlag, S. K. Thorat and K. V. R. Murthy
114. **Atun on optical chemodosimeter (E)-N'-(2-hydroxybenzylidene)-3,5-di-tert-butyl-2-hydroxybenzohydrazide for probing Zn(II) ion: Synthesis, Characterization, Cell imaging, Photophysical and Theoretical studies**
Mahantesh B Budri and Kalagouda B Gudasi
115. **Semiconductor nanoparticles theory and applications**
Manas Kumar Sahu
116. **Photoluminescence, XRD, AFM, XRFL, MASS SPECTRAL, CHNS, INFLUX, Beam Displacement of Rb₂Ti₂O₅ Crystalline materials**
K. Senthilkannan, R. Ranadevan, M. Vimalan, S. Ramalingam, S. Murugan and G. Ganesh
117. **Detection of Ionizing Radiations by studying Ceramic Tile Materials Using Thermoluminescence Technique**
H.C. Mandavia, K.V.R. Murthy and R.U. Purohit
118. **Detection of picric acid by ligand sensitized fluorescence spectroscopy**
R. Ananthanarayanan, Sitakanta Panda, M. Sivaramakrishna, G. Prabhakara Rao, B.S. Panigrahi, B. K. and Panigrahi
119. **Photoluminescent enhancement with alkali and alkaline-earth metal ions co-doping in Gd₂O₃:Euphosphors prepared by co-precipitation Method**
Ruby Priya and O.P. Pandey
120. **Synthesis of europium doped calcium silicate (Ca₃Si₂O₇:Eu²⁺) phosphors using agricultural waste**
Ishita Khurana Ruby Priya and O.P. Pandey
121. **Synthesis and photoluminescence properties of Pr³⁺ activated yellowish-red emitting phosphors for white LED applications**
M. Jayachandiran and S. Masilla Moses Kennedy
122. **Synthesis and photoluminescence properties of Ba₂CaZn₂Si₆O₁₇:Bi³⁺ blue emitting phosphors with high thermal stability for White Light Emitting Diodes**
P. Balakrishnan, M. Jayachandiran and S. Masilla Moses Kennedy
123. **Synthesis and optical properties of GdVO₄:Eu³⁺ Phosphor**
Himani Thakur, Rajesh Singh and Arvind K. Gathania
124. **Photoluminescence properties of Sm³⁺ activated NaCaBi₂(PO₄)₃ Phosphors for WLED applications**
E. Annie Rathnakumari and S. Masilla Moses Kennedy
125. **Photoluminescence (PL) properties of LiMgPO₄:Tb³⁺, B Phosphor for Solid State Lighting**
D.N. Game, C. B. Palan, N.B. Ingale, S.K. Omanwar
126. **Effect of mixing on mechano and thermo-luminescence performance of the Sr_{1-x}Eu_xMgAl₁₀O₁₇ phosphor**
Akshkumar Verma, Ashish Verma, Sanjay Kumar Pathak, Ishwar Prasad Sahu, Inder Kumar Singh and G.V. Bramhe

127. **Photoluminescence properties of chemical bath deposited cadmium sulfide (CdS) films**
Tarkeshwar Sinha, DevjyotiLilhare and AyushKhare
128. **Development of Mechanoluminescent Film for Real Time Stress Monitoring**
Piyush Jha, AyushKhare, Pranav Singh, Gajendra Singhand V.K. Chandra
129. **Re³⁺ (Re= Dy³⁺, Tm³⁺ and Sm³⁺) induced Trap levels modifications in Calcium Aluminates (CaAl₂O₄)**
MoirangthemNara Singh, LishamParis Chanu², AnurupGohainBarua and R. K. Gartia
130. **Photoluminescence studies of Silver doped CdTe Semiconducting QDs**
P.Bichpuria, A.Oudhia, N. Shukla, V.Taori*
131. **Synthesis and Thermoluminescence Properties of Ce³⁺ doped Sr₃SiO₅ phosphor**
Priya Chandrakar and R. N. Baghel
132. **Thermoluminescence study of gamma irradiated Mg₂B₂O₅ nanophosphors**
Jitender Kumar, P. A. Alvi, Shalendra Kumar and Ankush Vij
133. **Effect of fuel nature and relative composition on crystal structure and emission properties of ZnAl₂O₄ nanocrystals**
Megha Jain, Manju, Ankush Vij and Anup Thakur
134. **Elastico-mechanoluminescence of ZnS:Mn composite film induced by ball impact for developing impact sensor**
Piyush Jha, AyushKhare, and Pranav Singh
135. **Pulse-induced mechanoluminescence fromsugar crystals**
T.R. Sanodiya,Piyush Jha, AyushKhare, Pranav Singh, andS.K. Nema
136. **Strong Mechanoluminescencefrom(CaSr)Al₂Si₂O₈:Eu,DyPhosphor**
Piyush Jha
137. **Photoluminescence Studies of Eu³⁺ Activated Sr₂SiO₄ Phosphor**
Monika Somani, M. Mittaland P. K. Sharma
138. **Temperature dependent photoluminescence properties of red emitting Gd₂Zr₂O₇:Eu³⁺ phosphor**
Amalesh Kumarand J. Manam
139. **Excitation Wavelength Dependent Tunable Luminescence in SrZnO₂ Nanoparticles**
Manju, Megha Jain, Ankush Vij and Anup Thakur
140. **Optically stimulated luminescence studies of capacitors for Retrospective Dosimetry**
S. Jakathamani, O. Annalakshmi and M. T. Jose
141. **Thermoluminescence Studies of Combustion Synthesized MgO Nanoparticles**
Savita,Megha Jain, Manju, Ankush Vij and Anup Thakur
142. **Dosimetric studies on Ti doped Lithium Silicate phosphor using Thermoluminescence**
Lekshmi, O. Annalakshmi, S. Jakathamani, D. Sajith Mathew T and M.T. Jose
143. **Luminescent studies of Tb³⁺ and Eu³⁺ ion doped Li₂BaP₂O₇ phosphor**
Nithya Joseph, O. Annalakshmi, S. Jakathamani, D. Sajith Mathew T, M. T. Jose

144. Photoluminescence Studies Of Cerium Doped Magnesium Aluminate Nanophosphors (MgAl₂O₄:Ce)

Sapanasingh, R. K. Kuraria and S.R. Kuraria

145. Luminescence properties of calcium aluminate phosphors

M. Z. Khan, M. S. Kurre and Nameeta Brahme

146. Layered 2D-BCNO with Eu³⁺ for direct white light emission

S. Sekar and S. Venkataprasad Bhat

147. Effect of Gamma irradiation on Thermoluminescence properties of 5 wt % of Eu₂O₃ doped Polystyrene Polymer Films

Shilpa Bhavsar and N. L. Singh

148. Pressure and Temperature Induced Defect Aggregation in Ca/SrCO₃:Dy Thermoluminescent Phosphor

J. Nandha Gopal, Arunachalam Lakshmanan, Bhaskar Sanyal and Bhushan Dhabekar

149. To discover a better synthesis method for the preparation of CaMgP₂O₇:Dy phosphor

Swati Raut, R. G. Weginwar, S. J. Dhobale, U. P. Manikand Amol Nande

150. Thermoluminescence studies on Gd doped Lithium Magnesium Borate phosphor

O. Annalakshmi, S. Jakathamani and M. T. Jose

151. Luminescence Properties of Dysprosium doped Strontium Zirconate Phosphor by Solid State Reaction Method

Ishwar Prasad Sahu, D. P. Bisen, N. Brahme, L. Wanjari and Pradeep Dewangan

152. Photoluminescence (PL) Investigation of Ni & Co Impurity Complexes in Diamond under multiple laser (405, 532, 633, 785 & 830) excitations

Rajendra Ardalkar, Bhavik P Joshi, Sandesh Mane, Mahesh Gaonkar, Hemlata Bagla and M.D. Sastry

153. Sm³⁺ doped BaBi₂Nb₂O₉ phosphor for solid-state lighting applications

Amit K. Vishwakarma, M. Jayasimhadri, A.S. Rao and D. Haranath

154. Synthesis and photoluminescence studies of Eu(III) doped Barium Cerium Niobium (BCN) oxide

Verma Vishwnath, Nimesh Patel, M. Srinivas and K.V.R. Murthy

155. Luminescence Properties and characterization of Zinc Sulfide quantum dots under the effect of Mn concentration

Rakesh kumar Ahirwar, Anjali Bhatt, B.S. Arya and U.S. Patle

156. Theoretical Study of Shock-Induced light Emission in Lithium Niobate Single Crystals at High Velocity of Impact

S. Parganiha and R.N. Baghel

157. Growth and characterization of chemically deposited ZnO@ Ag decorated thin films

Vandana Taori, A.K. Shrivastava, Sakshi Sharma, A. Oudhia and Neelam Shukla

158. Synthesis and characterization of Zn doped lead hydroxide nano particle at high temperature

P. B. Taunk, Raunak kumar Tamrakar and D. P. Bisen

159. Photoluminescence Behavior of ZnO Nanophosphor Activated by Eu³⁺ Ion

Raunak Kumar Tamrakar, Kanchan Upadhyay and Pradeep Dewangan

160. Enhanced Photoluminescence properties of $\text{Y}_2\text{SiO}_5:\text{Eu}^{3+}$ by Li^+ and Zn^{2+} codoping

Kanchan Upadhyay, Sabu Thomas, Raunak Kumar Tamrakar and Nandakumar Kalarikkal

161. UV emitting behavior of Gd^{3+} doped strontium meta silicate *Raunak Kumar Tamrakar and Kanchan Upadhyay*

162. Thermoluminescence behavior of Gd^{3+} doped strontium meta silicate *Raunak Kumar Tamrakar, Kanchan Upadhyay, D. P. Bisen and Pradeep Dewangan*

163. Luminescence Properties of Dy^{3+} doped $\text{Ca}_2\text{MgSiO}_5$ Phosphors *Pradeep Dewangan, D. P. Bisen, Nameeta Brahme, Shweta Sharma, Ishwar Prasad Sahu, Raunak Kumar Tamrakar, and K. V. R. Murthy*

164. Synthesis of Rod like ZnO synthesized by co-precipitation method and Its Luminescence properties

P. B. Taunk, Raunak kumar Tamrakar, Ruby Das, D. P. Bisen and Kanchan Upadhyay

165. Synthesis and Luminescence Behavior of Europium doped Calcium Magnesium Silicate Phosphor

B. R. Verma, R. N. Baghel and D. P. Bisen

166. Synthesis and luminescence properties of Tb^{3+} doped LiMgPO_4 phosphor for radiation dosimetry

C. B. Palan, A. O. Chauhan, N. S. Sawala and S. K. Omanwar

167. TL/OSL properties of Ce^{3+} activated NaLi_2PO_4 phosphor for radiation dosimetry

C. B. Palan, A. O. Chauhan, N. S. Sawala and S. K. Omanwar

168. Spectroscopic analysis of the thermoluminescence glow curves of gamma irradiated natural salt extracted from a saline spring

Th. Tejkumar Singh and S. Nabadwip Singh

169. Mechanoluminescence studies of γ -induced Dy^{3+} activated SrAl_2O_4 phosphor for high radiation dose dosimetry

Anil Kumar Choubey, Nameeta Brahme, D. P. Bisen and S. J. Dhoble and M. Z. Khan

170. Effect of L-Valine and Ammonium Heptamolybdate on Growth, FTIR and Mechanical Studies of Zinc Thiourea Sulfate (ZTS) NLO crystal

Kiran T Rathod, I B Patel, A.M. Shah, Dhruvi K. Vaghela and Neel A. Patel

171. EDAX, XRD and SEM Of Hydroxyapatite Synthesized by Wet Chemical Precipitation

K.A. Mistry, Z.V. Fojdar, I.B. Patel, Neha H. Tandel and Vikram L. Bharat

172. Luminescence behavior of $\text{SrBaSiO}_4:\text{Dy}^{3+}$, $\text{R}^+(\text{Li}^+, \text{Na}^+, \text{K}^+)$ Phosphors

Ganesh Ram Banjare, D.P. Bisen, N. Brahme, Chitrkant Belodhiya, Sanjay Baghel, Yugbodh Patle, Ravison Patel, Ekta and Tripti

173. UV and Visible luminescence of Ag-Tm^{3+} doped Germanotellurite glass under 980 nm excitation

S.K. Mahajan and G.F. Ansari

174. **Sol-gel synthesis and optimization of luminescent properties of Dy³⁺ doped Na₂CaSiO₄ phosphor for optoelectronic device applications**
Harpreet Kaur, Sumandeep Kaur, Mukesh K. Sahu and M. Jayasimhadri
175. **Structural and fluorescence studies of Eu³⁺ activated Niobate phosphor for solid state lighting applications**
Animesh Verma, Mrinal Pandey, Mukesh K. Sahu and M. Jayasimhadri
176. **Synthesis and photoluminescence properties of Dy³⁺ doped pyrophosphate phosphor for white LEDs**
Mukesh K. Sahu, Harpreet Kaur, Deepali, M. Jayasimhadri and D. Haranath
177. **Investigation of the growth of semi-metals doped CdSe thin films through structural, optical and electrical characterization** *Prashant K. Sahu and R. Das*
178. **Shape controlled sonochemical synthesis of ZnO hierarchical structures for display and advanced forensic applications**
D. Kavyashree, R. B. Basavaraj, Yashwanth V. Naik, H. Nagabhushana
179. **Solution combustion synthesis of CaZrO₃:Dy³⁺ nanopowders for display and advanced forensic applications**
D. Navami, R. B. Basavaraj and H. Nagabhushana
180. **Sonochemical synthesis X₁ and X₂ Phase Y₂SiO₅:Eu³⁺ nanopowders: Luminescence and Judd-Ofelt analysis**
M. Mangala Gowri, R. B. Basavaraj and H. Nagabhushana
181. **Synthesis of CuO/CoO₃ nanocomposites via modified Sonochemical route: Structural and Luminescence properties**
N.H. Deepthi, R.B. Basavaraj, D. Navami, G.P. Darshan and H. Nagabhushana
182. **Sonochemical synthesis of tunable morphology with dual phase ZrO₂:Eu³⁺ nanopowders for display and advanced forensic applications**
B.S. Rohini, R.B. Basavaraj, G.P. Darshan, D. Kavyashree and H. Nagabhushana
183. **Synthesis and Luminescence Properties of Eu³⁺ Doped Na₂Sr₂Al₂PO₄Cl_{9-x}F_x Phosphors**
A. R. Kadam and S. J. Dhoble
184. **Calculation of EVI parameters of Cu⁺ in CaS compound**
Anju Pakhale, Sumedha Tamboli and S. J. Dhoble
185. **Thermoluminescence and Radiation Dosimetric properties of Eu³⁺ doped Sodium Aluminum Silicate Phosphor**
Digambar A. Ovhal, N. S. Dhoble and S. J. Dhoble
186. **Luminescence of Eu³⁺ ion in Ca₉La(PO₄)₅(SiO₄)F_{1-x}Cl_x Phosphor**
Chaitali M. Mehare, M.D. Mehare, S. J. Dhoble and N. S. Dhoble
187. **Investigations on Eu(TTA)₃tppo hybrid organic phosphor for OLED applications**
Akhilesh Ugale, N. Thejo Kalyani and S. J. Dhoble
188. **Synthesis and luminescence study of Na₂CaMg(PO₄)₂:Tb³⁺ green phosphor**
J. A. Wani, S. J. Dhoble and N. S. Dhoble

- 189. UV-visible analysis of europium based organic complexes encapsulated in PMMA matrix**
Dipti chitnis, N. Thejo Kalyani, S.J. Dhoble
- 190. Luminescent characterizations of blue emitting phosphor CaAlBO₃F₂:Eu²⁺**
R. G. Kunghatkar and S. J. Dhoble
- 191. Recent advances in sonoluminescence**
Amit R. Bansod, O.P.Chimankar and S. J. Dhoble
- 192. Evaluation of Structural and Optical Properties of P-Acetyl biphenyl-DPQ phosphor for OLED applications**
S. Y. Mullemwar, N.Thejo Kalyani and S. J. Dhoble
- 193. Photoluminescence analytical study of K₂SrPO₄:RE (RE = Eu²⁺, Ce³⁺) Blue Emitting Lamp Phosphor**
V.R.Panse, S.J.DhobleandN.S.Kokode
- 194. X-ray induced luminescence in rare earth freeSrMg_{0.97}Al₁₀O₁₇:0.03Mn²⁺phosphor**
J.G.Mahakhode,S.V.Mohariland S.J.Dhoble
- 195. Wet Chemical Synthesis and Thermoluminescence Study of KNaSO₄:Dy Phosphor**
Archana Deshpande, N. S. Dhobleand S. J. Dhoble
- 196. Photoluminescence Study of Eu³⁺doped ZnB₂O₄**
Tresa A Joseph and S.J.Dhoble
- 197. Thermoluminescence study of fly ashwithdivalent anioncomposite materials for high dose TL dosimetry application**
Rashmi Jain,Yatish R. Parauha, M. Z. Khan and S. J. Dhoble
- 198. Luminescence study of Ce³⁺ and Dy³⁺activated KZnSO₄Cl chlorosulphate phosphor**
Nita Shinde and S. J. Dhoble
- 199. Investigationonthermoluminescence properties of β-irradiated CaO:Dy³⁺phosphor**
D. Prakash and K. R. Nagabhushana
- 200. Synthesis and Photoluminescence properties of K₂CaP₂O₇:Ce³⁺ phosphor**
V. S. Punse, C. B. Palan, P. A. Nagpure and S. K.Omanwar
- 201. Characterization of Ferric Oxide Nanoparticles Dispersed in Ferroelectric Liquid Crystal**
Abhishek Kumar Misraand Rahul Shrivasa
- 202. BaFBr:Eu²⁺ phosphor for low energy gamma radiation detection**
RajakrishnaKalvala, A. Dhanasekaran, Ajoy K C, Yuvrajand M T Jose
- 203. Mimosa pudica(L.) mediated fabrication of ZnO NPs: Characterization andEvaluation of antibacterial, anticancer and photoluminescence properties**
K. Lingaraju, H. Raja Naika, H. Nagabhushana and Hajeebaba K. Inamdar
- 204. Synthesis, Structural and Electroluminescence studies of CdS/PVK Nanocomposites**
Sarita Kumari and Meera Ramrakhiani

205. **Thermoluminescence studies of gamma irradiated potassium bromide single crystals and microcrystalline powder doped with terbium**
M.Kalra and R. S.Kher
206. **Assessment of radiation dosimetry of different type of houses of imphal-east district, manipur, india – a community health prospects**
Sanasam Suranjit, M. Joyshangkar Singh and B. Arunkumar Sharma
207. **Study On Natural Background Radiation Dosimetry In And Around Senapati District of Manipur,India**
M. Joyshangkar Singh, Sanasam Suranjit, Th. Arunkumar Singh, Th. Priya Devi, S. Nabadwip Singh and B. Arunkumar Sharma
208. **Structural, Electronic and Optical Properties of Wurtzite Structure (100-x)AgI : xCuI: First Principle Study**
Rahul Baghel, Mohan L Verma and B. Keshav Rao
209. **Analysis of CaSO₄:Dy by VHR method relevant with environmental dosimetry**
N. Shitaljit Singh, B. Arunkumar Singh and S. Nabadwip Singh
210. **Preparation of Sr₂SiO₄:Dy³⁺, Eu²⁺ phosphors by combustion method and their optical properties**
R. P. Patel, A. K. Diwakar, Alok Verma, Durga Verma and Vikas Jain
211. **Phosphor Organic Light Emitting Diode (PHOLED)**
Sridhar Goud Arelli and Anil Kumar
212. **Photoluminescence Studies of Eu²⁺ and Eu³⁺ in Y₂O₃:Eu Nanophosphor**
Nikhil R Jha, R. K. Kuraria and P. D. Sahare
213. **The OSL Study of different grains followed by beta radiations for as received synthetic quartz sample**
Sanskriti A. Parashar, D. R. Joshi, Y. H. Gandhi and Y. D. Kale
214. **Shape controlled sonochemical synthesis of hierarchical ZnO nanostructures for multi-functional applications**
T.B. Nijalingappa, M. K. Veeraiah and Yashwanth V. Naik
215. **Tunneling Controlled Electroluminescence Switching in Bilayer Organic Light Emitting Diodes**
Rishi Jaiswal, R. S. Singh and R.N. Baghel
216. **Study of Photoluminescence properties of Ce³⁺ doped M₂Al₂SiO₇ (M=Ca, Sr, Ba) Phosphor**
Tripti Richhariya, Nameeta Brahme, D.P. Bisen, Ekta Chandrawanshi, Yugbodh Patle, Ravison Patel, Sanjay Baghel and Manju Tiwari
217. **Synthesis, Characterization and Photoluminescence studies of Bi₂O₃:Nd³⁺ Nanophosphors**
S. Ashwini, S.C. Prashantha, Ramachandra Naik, H. Nagabhushana and K. N. Narasimhamurthy
218. **Preparation of Sr₂SiO₄:Dy³⁺ phosphors by solid-state reaction method and their thermoluminescence properties**
Durga Verma and R. P. Patel
219. **Photoluminescence properties of the Nd³⁺ doped LaAlO₃-A green light emitting nanophosphor for NUV-excited light-emitting diodes**

Ramachandra Naik, T. Manohar, S.C. Prashantha,
H. Nagabhushana, D.M. Jnaneshwara and H.P. Premakumar

220. **Design, Synthesis and photophysical studies of Blue Fluorophores for OLEDs**
Raksha Pal, Rachna Devi and Sivakumar Vaidyanathan
221. **New red emitting phosphors $\text{NaSrLa}(\text{MO}_4)_3:\text{Eu}^{3+}$ [M = Mo and W] for white LEDs: Synthesis, structural and optical study**
R. Marikumar and V. Sivakumar
222. **Synthesis and photo-physical study of the Zero dimensional perovskite Nano crystals for white LEDs application**
S. Satish Kumar, R. Marikumar and V. Sivakumar
223. **A comparative study of optical properties of PPV and MEHPPV-DFT Approach**
Rachna Singh and Mohan L Verma
224. **Luminescence Properties of Rare Earth Doped Strontium Pyrophosphate and Its Applications**
Nimesh Patel, Verma Vishwnath, M. Srinivas and K.V.R. Murthy
225. **Photoluminescence study of $\text{CaO}:\text{Eu}(\text{Sm}, \text{Gd}, \text{Dy})$**
Jitesh C. Sharma, Trilok B. Akhiani, Y. H. Gandhi and K. V. R. Murthy
226. **Synthesis and characterization of $\text{SrAl}_2\text{O}_4:\text{Eu}^{2+}, \text{Dy}^{3+}$ thin film prepared by electron beam evaporation deposition method**
D. S. Kshatri, Shubhra Mishra, Ayush Khare and Sanjay Tiwari
227. **Atomic force microscopy analysis of Ce doped SrS thin films deposited by e-beam evaporation deposition method**
Shubhra Mishra, D. S. Kshatri, Ayush Khare and Sanjay Tiwari
228. **Review of Magneto-Luminescent Nanoparticles For Real-Time Imaging**
A. P. Bhat, K.G. Rewatkar, N.G. Dumor and S. J. Dhoble
229. **Photoluminescence and thermoluminescence study of Ce activated $\text{Sr}_5\text{Al}_2\text{O}_8$ phosphor**
Arati Duragkar, N.S. Dhoble and S.J. Dhoble
230. **Impact of synthesis methods on photoluminescence properties of $\text{Na}_{15}(\text{SO}_4)_5\text{F}_4\text{Cl}:\text{Cu}^+$ phosphor**
Vrushali Yerpudea, K. B. Ghormare and S. J. Dhoble
231. **Energy and environmental impact of $\text{SrZnP}_2\text{O}_7:\text{Dy}^{3+}$ inorganic pyrophosphate for eco-friendly white LED**
R.L. Kohale and S.J. Dhoble
232. **Photoluminescence study of Mn doped $\text{BaY}_2\text{O}_4:\text{Eu}$**
S. K. Erfan, B. Subba Rao and K.V.R. Murthy
233. **Photoluminescence of $\text{SrLa}_2\text{SiO}_6:\text{Eu}$**
D. Srinivasa Rao, D. Sravani, P Sai Raju, S. K. Erfan, B. Subba Rao and K. V. R. Murthy
234. **Red Emitting phosphors for Device Applications**
P. Indira, S. Kondala Rao, P.D. Patil and K.V.R. Murthy
235. **Synthesis and Luminescence studies of $2\text{Y}_3\text{Al}_5\text{O}_{12}:\text{Tb}:\text{Eu}$** Karanukar
Shakampally, S.C. Chaudhari and K.V.R. Murthy
236. **Zn_2SiO_4 doped with Mn Phosphor for displays**
P. Sai Raju, G. Ramesh Babu, B. Subba Rao and K.V.R. Murthy

237. **Photoluminescence properties of Eu^{3+} (1.5 mol%) doped CaAl_2O_4 and Ca_2SiO_4 phosphors for w-LED applications**
P.Kamala, K.Suresh, T.Malathi Rekha and K. V. R. Murthy
238. **Photoluminescence Studies of Eu (1.5 mol%), Tb (1 mol%) co-doped MgO Phosphor**
J.Kishore Babu, K.Suresh, B.Subba Rao and K. V. R. Murthy
239. **Photoluminescence properties of Eu^{3+} doped Gd_2SiO_5 phosphor**
S.Ravi Kumar, K. Suresh, B.Subba Rao, and K.V.R. Murthy
240. **Physical and optical properties of Dy^{3+} doped antimony borate glass**
Ch.Vijay Anil Dai, K.Suresh, T.Niranjana Kumar, Ch.Srinivasu and K. V. R. Murthy
241. **Photoluminescence Studies on Eu doped strontium borophosphate**
Y. N. Ch Ravi Babu and K.V.R. Murthy
242. **Synthesis and Luminescence Studies of RE doped CaCeO_3**
UVBB Krishna Prasad, K Jyothi and K.V.R. Murthy
243. **Characterization of Eu (1.5%) doped Y_2SiO_5 - Tb (2%) Phosphor**
S. K. Erfan, P.Sairaju, D.Srinivasa Rao, B. Subba Rao and K.V.R. Murthy
244. **Combustion synthesis and luminescent properties of color-tunable $\text{Eu}^{3+}/\text{Tb}^{3+}$ co-doped $\text{BaLaB}_9\text{O}_{16}$ Phosphor**
S.P.Bhagat, C.B.Palan, N.S.Bajaj and S.K.Omanwar
245. **White light emission of Dysprosium (III) doped $\text{Sr}_2\text{ZnSi}_2\text{O}_7$ phosphor**
S. Chandraker, R. Sahu, M. Parganiha and J. Kaur
246. **Spectroscopic Studies of Strong Red Emitting $\text{CaAl}_2\text{O}_4:\text{Eu}^{3+}$ Nanophosphor for WLED's Applications Using Judd-Ofelt theory**
B. S. Shashikala, H.B. Premkumar, G.P. Darshan and H. Nagabhushana and S.C.Prashantha
247. **First Principle Study of Kevlar-29**
Harsha Verma, Mohan L Verma, Manwendra K. Tripathi and B. Keshav Rao
248. **Synthesis and Photoluminescence study of Ce^{3+} doped $\text{SrLaAl}_3\text{O}_7$ phosphor**
N. S. Sawala, A. O Chauhan, C. B. Palan and S. K. Omanwar
249. **Photoluminescence study of $\text{Tb}^{3+}/\text{Eu}^{3+}$ doped NaCaPO_4 phosphor**
N. S. Sawala, A. O Chauhan, C. B. Palan and S. K. Omanwar
250. **Narrowband UVB emitting $\text{KSrPO}_4:\text{Gd}^{3+}$ phosphor for Phototherapy application**
A. O Chauhan, N. S. Sawala, C. B. Palan and S. K. Omanwar
251. **Synthesis and Photoluminescence properties of $\text{KCa}_4(\text{BO}_3)_3:\text{Gd}^{3+}$ phosphors**
A. O Chauhan, C. B. Palan, N. S. Sawala and S. K. Omanwar
252. **Visible quantum cutting in KMgF_2 Co-doped with $\text{Gd}^{3+}, \text{Eu}^{3+}$ phosphor synthesis via reactive atmosphere process**
S. R. Jaiswal, P. A. Nagpure, V. B. Bhatkar and S. K. Omanwar
253. **Optical properties of biopolymer chitosan on graphene nanosheet - A theoretical modelling**
Upma and Mohan L Verma
254. **Effect of [O]/[B] ratio on luminescence properties of alkaline-earth borate host phosphors**

A.B. Gawande, R.P. Sonekar and S. K. Omanwar

255. **Effect of Eu on the structure, morphology and optical properties of ZnO NWs synthesized by chemical bath deposition***Nandita Khanra, Purna Bose, Anjali Oudhia and Neelam Shukla*
256. **Effect of various doping percentage of Gd³⁺ doped CaZrO₃ phototherapy lamp phosphor**
Vikas Dubey, Neha Dubey, Jagjeet Kaur and K. V. R. Murthy
257. **Synthesis and Photoluminescence Properties of Ce³⁺-doped Bi₄Si₃O₁₂ Phosphors for WLED Applications**
Ekta Chandrawanshi, D.P. Bisen, Nameeta Brahme, Tripti Richariya, Ravison Patel, Yugbodh Patle, Ganesh Banjare and Ugendra Kurrey
258. **FRET-Based Switching of Blue Luminescent Carbon Quantum Dot for the Sensing of Organophosphorus and Carbamate Pesticides: Gold Nanoprobe for Inhibition and Reactivation of AChE***Jyoti Korram*
259. **Green Luminescent CdTe Quantum Dots for the highly sensitive detection of organophosphorus pesticides: In situ generation and consumption of H₂O₂**
Lakshita Dewangan and Manmohan L. Satnami
260. **TL Dosimetric study of natural Dolomite**
P.P. Zala, K.V.R. Murthy and R.U. Purohit
261. **Synthesis and characterisation of Eu co-doped Zn₂SiO₄:Mn phosphor**
D. Srinivasa Rao, D. Sravani, K. Kondala Rao, P. Sai Raju, S. K. Irfan, B. Subba Rao and K. V. R. Murthy
262. **Impact of synthesis on Kinetic Parameters of Ti doped ZrO₂ Phosphors**
Ugendra Kurrey, Nameeta Brahme, D.P. Bisen, Ekta Chandrakar and Tripti Richhariya
263. **Ultrasonic Wave - Induced Elastico - Mechanoluminescence: A New Technique for Ultrasonic Power Measurement**
V.D. Sonwane, Anubha S. Gour and Piyush Jha
264. **Synthesis of UAV emitting Praseodymium doped Lanthanum Oxide (Pr³⁺:La₂O₃) phosphor and their medical application**
Kevil Shah, K. V. R. Murthy and B. S. Chakrabarty
265. **Photoluminescence Studies of Y₃Al₅O₁₂:Ge(1%), Eu(2.5%) Phosphor under various flux media**
B. Vinod Kumar, B. Walter Ratna Kumar, P. Kamala and T. Malathi Rekha
266. **Photoluminescence Studies of Gd₃Al₅O₁₂:Ge, Eu Phosphor**
B. Walter Ratna Kumar, B. Vinod Kumar, P. Kamala and T. Malathi Rekha
267. **Photoluminescence Study of Eu³⁺ doped Na_{2-x}Mg(PO₄)_{1-y}(VO₄)_yF phosphor for color tunable white light**
Yash R. Ghai, Yatish R. Parauha, V. Natarajan and S.J. Dhoble
268. **White light emission from Dy³⁺ doped Ca_{4-x}Al(SO₄)F_{12-y}Cl_y for White LEDs**
Simran A. Mishra, Yatish R. Parauha and S. J. Dhoble
269. **UVB emission of LiLa(PO₃)₄:Gd³⁺ phosphor for Phototherapy lamp**
Satnamkaur S. Mattu, R. G. Kunghatkar and S. J. Dhoble
270. **Synthesis, Characterization and Sonoluminescence Study of Boehmite Nanoparticles**

N. R. Pawar, R. D. Chavhan, O. P. Chimankar and S. J. Dhoble

- 271. Studies on Luminescence properties of SrZrSi₂O₇:Ce³⁺ Phosphor**
Sanjay Baghel, Nameeta Brahme, D.P. Bisen, Ganesh Banjare Pradeep Dewangan, Shweta Sharma, Yugbodh Patle, Ravison Patel, Ekta Chandrawanshi and Tripti Richhariya
- 272. Photoluminescence studies of Europium doped ZnAl₂O₄ phosphor**
M. R. Revupriya, P. S. Anjana, N. Gopakumar and M. S. Anju
- 273. Thermoluminescence studies of Dy³⁺ doped MgO phosphor**
G. Sahu, A. S. Gour, K.V.R. Murty and V. Jain
- 274. Synthesis and Luminescence properties of Gallate Based Phosphor**
B. Vasanthi, N. Gopakumar and P. S. Anjana
- 275. Effect of monovalent ion on Luminescence properties of Ba₂SiO₄:Ce³⁺Dy³⁺ Phosphors**
Ganesh Ram Banjare, D.P. Bisen, N. Brahme, Chitrkant Belodhiya and A.K. Upadhyay
- 276. NUV light-induced green emitting erbium-doped BiOCl:Er³⁺ microstructures: Luminescence and forensic applications**
N. Latha, R.B. Basavaraj and H. Nagabhushana
- 277. Synthesis and Photoluminescent properties of Tb³⁺ doped LaPO₄ phosphors**
Niyaz Parvin Shaik and K.V.R. Murthy
- 278. Ball Impact Induced Mechanoluminescence of Sr₂Al₂SiO₇:Eu, Dy Phosphor Composite Film**
Akhilesh Jadhaw, Anubha S Gour and Piyush Jha
- 279. Optical Characterization of (0.25 mol%) Er³⁺ & Nd³⁺: 64.75 B₂O₃-10P₂O₅-10ZnO-10AlF₃₋₅ (Li₂CO₃/Na₂CO₃/K₂CO₃) Glasses**
P. Bayapu Reddy, B. Rajeswari, B. Sudhakar Reddy, S.J. Dhoble and C.V. Krishna Reddy
- 280. Effect of silica encapsulation on photoluminescence and thermoluminescence properties of Pr³⁺:LuAG nanophosphor**
S. Arun Kumar and J. Senthilselvan
- 281. Enhanced Photovoltaic Performance of Dye-Sensitized Solar Cells by Incorporating Hexagonal NaYF₄:Yb, Er Upconversion Nanorods**
M. Gunaseelan, G.A. Kumar, V. Ganapathy, S. Yamini, K. Reshma Dileep, D.K. Sardar, L. Anbharasi, S. Sakthivel, R. Easwaramoorthy, and J. Senthilselvan
- 282. TL glow curve of a persistent luminescent material in hyperbolic heating**
L. Lovedy Singh, E. Gopal Singh and Th. Ranjan Singh
- 283. Study of surface and chemical properties of Erbium ions doped oxyfluoroborosilicate glasses with X-ray Photo Electron Spectroscopy (XPS)**
Megala Rajesh and B. Deva Prasad Raju
- 284. Green Luminescence in Cerium doped PbWO₄ Nanophosphor**
D. Tawde, Nimesh Patel, Verma Vishwnath, M. Srinivas and K.V.R. Murthy
- 285. Synthesis and Luminescence Investigation of Dy³⁺ activated Li₂Sr₂Al₂PO₄F₉ phosphor**
Tushar R. Shelke, A.P. Fartode, N.S. Dhoble, S.J. Dhoble and V.M. Nanoti
- 286. Significance of Critical Dose of H₂O₂ in Gamma Radiolytic Decoloration of some dye solutions**
Anoop P. Fartode, Swati A. Fartode, Tushar R. Shelke and D.V. Parwate

- 287. Influence of Na⁺ sensitizer on the Photoluminescence properties of CdSiO₃:Eu³⁺ Phosphor**
J. Shivakumara, Chikkahanumantharayappa and S. Ashoka
- 288. Overshoot Effect in the Transient Electroluminescence of Bilayer Organic Light Emitting Diodes**
Mohua Singh, A.K. Shrivastav, and Sanjay Tiwari
- 289. Studies of Photoluminescence and Photocatalytic applications of metaloxidenano materials**
K. R. Basavalingaiah, Udayabhanu, G. Nagaraju, and Chikkahanumantharayappa
- 290. Synthesis and Characterization of Tb and Li doped Zinc Silicate green nanophosphors**
Soosan Jacob, B. M. Nagabhushana and Chikkahanumantharayappa
- 291. Study of Ho Doped (Cd-Ag)S Thin Films Prepared by CBD Method**
Goverdhan Yadu, M. Akash Pateria and K. Deshmukh