

BRIEF PROFILE (DR. JAGJEET KAUR SALUJA)



Name

Dr. Jagjeet Kaur Saluja

Designation

Professor (Physics)

M. Sc. physics in 1984

& Ph. D. in 1993

E-mail Id :

jageet_62@yahoo.co.in.

Specialization in P.G.

Electronics

Extra curriculum activity

1. Chairperson board of studies Physics.
2. Chairperson board of studies Electronics.
3. Subject expert for inspection by higher education cg in various college.
4. Member of inspection committee of durg university team in various colleges.
5. Member of governing body of Aryavrat college.
6. Member of board of studies of Govt. Digvijay college Rajnandgaon.
7. Member of board of studies of Govt. Science college Durg.
8. Three students are awarded in the guidance of Dr. Jagjeet Kaur Saluja.

Specialization in Research

Material Science

Detail of Research Project

(i) One Major Research Project on TL (Thermoluminescence) completed funded by UGC

(ii) One Minor Research Project on Nanoparticles completed funded by UGC

(iii) One minor research project ongoing funded by UGC

(iv) One minor research project funded by CCOST

Teaching Experience U.G.

30 Years

Teaching Experience P.G.

29 Years

Detail of Research (In brief)

Studies of ML of (Zn,Cd)S mixed Phosphor with different impurity and now doing work on TL, PL &ML.

Supervisor for Ph.D.

03 Ph.D. awarded

Research Publications

90

07 registered under supervision
and co-supervision
Total Research Papers Published –

International Journals – 58
Papers in press in International Journals – 03

International Conferences – 10
National Conferences- 19

Publishing International Research Journal

Advance Physics Letter

Resource Person in International & National Conferences.

One of the scholar received C. G. Young Scientist Award 2015 under
guidance.

1st Prize received by research scholar in National & International conferences.

1. **Kaur J.**, Suryanarayana N.S. and Dubey V., ML Spectra of Gold Doped (Zn, Cd) S Mixed Phosphors, *Chalcogenide Letters*, 7 (5), 329 – 334 (2010)
2. **Kaur J.**, Suryanaraya N. S., Dewangan M. and Dubey V., Mechanical bleaching /quenching of luminescent centres In camphor crystals, *Chalcogenide Letters*, 7(6), 367-373 (2010).
3. **Kaur J.**, Suryanarayana N.S. and Dubey V., Electroluminescence in Manganese Doped Two Host Matrix Phosphor (Zn, Cd) S:Mn, Cl, *Ultra Scientist of Physical Sciences*, 22 (2) 351-356, (2010).
4. **Kaur J.**, Suryanarayana N.S. and Dubey V., Effect of Temperature on the ML of Mn Doped (Zn, Cd) S Mixed Phosphors, *International Journal of Physics and Applications*, Volume 2(1), 31—37 (2010).
5. Gupta R.S., **Kaur J.**, Suryanarayana N. S. and Vikas Dubey, Effect of Activator Concentration on the Mechano Electro - and Photoluminescence of Cu and Mn Doped ZnS Phosphors, *International Journal of Nanotechnology and Applications*, 4(3), 185-188 (2010).
6. Suryanarayana N. S., **Kaur J.** and Dubey V., Study of Propagation of Ion Acoustic Waves in Argon Plasma, *Journal of Modern Physics Scientific Research*, 1, 281-289 (2010).

7. Kanojia A., **Kaur J.**, Suryanarayana N. S. and Dubey V., Photoluminescence and Absorption Spectra of ROPPV Films, *International Journal of Physics and Applications*, 2(1), 61—67 (2010).
8. Dubey V., Suryanarayana N.S. and **Kaur J.**, Kinetics of TL Glow Peak of Limestone from Patharia of CG Basin (India), *Journal of Minerals & Materials Characterization & Engineering*, 9 (12), 1101-1111, (2010).
9. Dubey V., **Kaur J.** and Suryanarayana N.S., Compare Study of TL for Lime Stone Powder and Crystal Irradiated by UV Exposure, *International Journal of Industrial Engineering and Technology*, 2(1), 383—386, (2010).
10. Choubey P.C., **Kaur J.**, Suryanarayana N.S., Dubey V., and Das G., Kinetic Parameter And TL Glow Curve Of In Doped NaCl Crystals, *Materials Physics and Mechanics*, 10 47-55, (2010).
11. **Kaur J.**, Suryanarayana N.S., and Dubey V., Effect of temperature on the ML of Au doped (Zn,Cd)S mixed phosphors, *Chiense Chemical Letters*, 22(6), 709–712 (2011 june).
12. **Kaur J.**, Suryanarayana N.S., Dubey V. and Rajput N., TL Glow Curve and Kinetic study of Eu³⁺ doped SrY₂O₄ Phosphors, *Research Journal of Chemical Sciences*, 1(6), 80-83 (2011 sept.).
13. Kanojia A., **Kaur J.**, Suryanarayana N. S. and Dubey V., Study Of Thickness Effect On Absorption, Photo And Electroluminescence Spectra In ROPPV Polymer Films, *Materials Physics and Mechanics*, 12, 103-112, (2011).
14. Dubey V., **Kaur J.**, Suryanarayana N. S., and Murthy K. V. R., TL and PL Study of beta irradiated limestone collected from Semaria mines of C.G.Basin, *International Research Journal of Geology and Mining (IRJGM)*, 1 (1), 012-017 (2011).
15. **Kaur J.**, Suryanarayana N.S., Dubey V. and Agrawal S., Spectral characteristics of doped CdS phosphors, *Archives of Physics Research*, 2 (4), 115-120 (2011).
16. Choubey P.C., Kaur J., Suryanarayana N. S. and Dubey V., Kinetics and TL glow curve of Ba doped KCl Crystal, *Iternational Journal of luminescence and Aplication*, 1 (2), 108-112 (year missing).

17. **Kaur, J.**, Dubey, V., Suryanarayana, N.S., Agrawal, S. and Dhoble, S.J., Thermoluminescence study of UV and gamma irradiated Limestone, *International Journal of Nano Tech.and Appl.*, 6 (2), 97-104 (2012). ISSN: 0973-631X
18. Dubey, V., **Kaur, J.**, Suryanarayana, N.S. and Murthy, K.V.R., TL and PL Study of beta irradiated calcite collected from Semaria mines of C.G. Basin, *Journal of Atoms and Molecules*, 2 (4), 291-299 (2012). ISSN: 2277-1247
19. Dubey, V., **Kaur, J.**, Suryanarayana, N.S. and Murthy, K.V.R., Effect of Annealing Temperature of beta irradiated limestone, *Invertis Science publications*, 5 (3), 162-166 (2012). ISSN: 2454-762X (online), 0973-8940 (Print)
20. Dubey, V., **Kaur, J.**, Suryanarayana, N.S. and Murthy, K.V.R., Thermoluminescence and kinetics of gamma irradiated bhutanese stone, *Material Physics Mechanics*, 15, 1-8 (2012). ISSN: 1605-8119
21. **Kaur, J.**, Suryanarayana, N.S., Dubey, V., Agrawal, S., Sriwastawa, R., Jaykumar, B., Baig, H.N. and Murthy K. V. R., TL glow curve analysis of beta irradiated Eu^{3+} doped $\text{Y}_4\text{Al}_2\text{O}_9$ phosphor, *International Journal of luminescence and Application*, 2(1), 60-62 (2012). ISSN : 2277 – 6362
22. Dubey, V., **Kaur, J.**, Suryanarayana, N.S., Agrawal, S. and Murthy, K.V.R., TL and PL Study of beta irradiated Bhutanese Stones collected from Bhutan, *International Journal of luminescence and Application*, 2(1) 24-26 (2012). ISSN : 2277 – 6362
23. **Kaur, J.**, Suryanarayana, N.S., Dubey, V., Shrivastava, R., Murthy, K.V.R. and Dhoble, S.J., TL glow curve and kinetic of gamma irradiated Quartz collected from Rasmada mines of C.G. Basin, *Recent Research in science and technology*, 4 (8), 58-60 (2012). ISSN: 2076-5061.
24. Shrivastava, R., Dubey, V. and **Kaur, J.**, Determination of TL kinetic parameters of a Phosphor, *Recent Research in Science and Technology*, 4 (8) 132-133 (2012). ISSN: 2076-5061
25. Dubey, V., **Kaur, J.**, Suryanarayana, N.S. and Murthy, K.V.R., Thermoluminescence and chemical characterization of natural calcite collected from Kodwa Mines, *Research on Chemical Intermediates* 39(8), 3689-3697 (2012). ISSN: 0922-6168 (Print) 1568-5675 (Online)

26. **Kaur J.**, Agrawal S., Suryanarayana N.S and Dubey V., TL study of beta irradiated Quartz collected from semaria mines of C.G.Basin, *CSVТУ research journal*, 5, 27-29 (2012).
27. **Kaur, J.**, Suryanarayana, N.S., Jaykumar, B., Dubey, V., Shrivastava, R. and Baig, H. N., TL Glow Curve Study, Kinetics, PL and XRD Analysis of Mn²⁺ Doped CaAl₂O₄ Phosphors, *Journal of Minerals and Materials Characterization and Engineering*, 11 (11), 1081-1084 (2012). ISSN Print: 2327-4077 ISSN Online: 2327-4085
28. **Kaur, J.**, Dubey V., Suryanarayana, N. S., Swamy, N. K., Pammi, S. V. N. and Ramakrishna, P. V., Thermoluminescence study of ZnS:Cu nanoparticles, *Research on Chemical Intermediates*, 38 (9) 3895-3900 (2012). ISSN: 0922-6168 (Print) 1568-5675 (Online)
29. **Kaur, J.**, Dubey, V. and Suryanarayana, N. S., Comparative study of ML and PL spectra of different impurity-doped (Zn, Cd) S mixed phosphors, *Research on Chemical Intermediates*, 38 (9), 4337-4349 (2012). ISSN: 0922-6168 (Print) 1568-5675 (Online)
30. **Kaur, J.**, Singh, D., Dubey, V. and Suryanarayan, N.S., A review report on synthesis and characterization of LaAlO₃ phosphor, *Research on chemical intermediates*, 40 (8), 2737-2771 (2013). ISSN: 0922-6168 (Print) 1568-5675 (Online)
31. Dubey, V., **Kaur, J.**, Agrawal, S., Suryanarayana, N.S. and Murthy, K. V. R., Synthesis and Characterization of Eu³⁺ doped SrY₂O₄ Phosphor, *Optik-International Journal for Light and Electron Optics*, 124 (22), 5585-5587 (2013). ISSN: 0030-4026
32. Dubey, V., **Kaur, J.** and Agrawal, S., Synthesis and Characterization of Eu³⁺ doped Y₂O₃ Phosphor, *Research on chemical intermediates*, 39 (5) (2013). ISSN: 0922-6168 (Print) 1568-5675 (Online)
33. **Kaur, J.**, Shrivastava, R., Dubey, V. and Jaykumar, B., Kinetics and thermoluminescence glow curve study of Ba₂MgSi₂O₇:Eu³⁺, Dy³⁺, *Research on chemical intermediates*, 40 (8), 2599-2604 (2013). ISSN: 0922-6168 (Print) 1568-5675 (Online)
34. **Kaur, J.**, Dubey, V., Parganiha, Y., Singh, D. and Suryanarayana, N. S., Review of the preparation, characterization, and luminescence properties of Pr³⁺-doped CaTiO₃ phosphors, *Research on chemical intermediates*, 41 (6) 3597-3621 (2013). ISSN: 0922-6168 (Print) 1568-5675 (Online)

35. **Kaur, J.**, Parganiha, Y. and Dubey, V., Luminescence Studies of Eu^{3+} Doped Calcium Bromofluoride phosphor, *Physics Research International*, 2013, (2013). ISSN: 0922-6168 (Print) 1568-5675 (Online)
36. Shrivastava R., **Kaur J.**, Dubey V., Suryanarayana N. S. and Jaykumar B., Kinetics and TL glow curve study of europium-activated strontium aluminate, *Research on Chemical Intermediates*, 40 (2), 487-493, (2014). ISSN: 0922-6168 (Print) 1568-5675 (Online)
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38. Shrivastava R., **Kaur J.**, Dubey V. and Jaykumar B., Luminescence studies on europium- and dysprosium doped di-strontium magnesium silicate phosphor, *Research on chemical intermediates*, 39 (9) 2013
39. Dubey V., Agrawal S. and **Kaur J.**, Effect of Eu^{3+} Concentration on Luminescence Studies of $\text{Y}_4\text{Al}_2\text{O}_9$ Phosphor, *Indian Journal of Materials Science* 2014, (2014). ISSN: 2314-7490 (Online)
40. Dubey V., **Kaur J.**, Agrawal S., Suryanarayana N.S. and Murthy K. V. R., Effect of Eu^{3+} concentration on photoluminescence and thermoluminescence behavior of $\text{YBO}_3:\text{Eu}^{3+}$ phosphor, *Superlattices and Microstructures*, 67, 156–171 (2014). ISSN: 0749-6036
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42. **Kaur J.**, Parganiha Y., Dubey V., Singh, D. and Chandrakar D., Synthesis, Characterization and luminescence behavior of $\text{ZrO}_2:\text{Eu}^{3+}, \text{Dy}^{3+}$ with variable concentration of Eu and Dy doped Phosphor, *Superlattices & Microstructures*, 73, 38–53 (2014). ISSN: 0749-6036

43. Shrivastava R., **Kaur J.**, Dubey V. and Jaykumar B., Photoluminescence, trap states and thermoluminescence decay process study of $\text{Ca}_2\text{MgSi}_2\text{O}_7:\text{Eu}^{2+}$, Dy^{3+} phosphor, *Bulletin of material science*, 37(4), 925–929 (2014). ISSN: 0250-4707 (print), 0973-7669 (online)
44. Shrivastava R., **Kaur J.** and Dubey V., Effect of co-dopant concentration on photoluminescence properties of $\text{Sr}_2\text{MgSi}_2\text{O}_7:\text{Eu}^{2+}$, Dy^{3+} phosphor, *Advance Physics Letter*, 16-18 (2014). ISSN: 2349-1108
45. **Kaur J.**, Chandrakar D., Dubey V. and Suryanarayana N.S., Photoluminescence behavior of rare-earth ion (Eu^{3+}) doped cerium oxide, *Advance Physics Letter*, 19-21 (2014). ISSN: 2349-1108
46. **Kaur J.**, Suryanarayana N.S., Singh D., Dubey V. and Chandrakar D., Synthesis and luminescence study of Eu^{3+} doped Lanthanum Aluminate phosphor, *Advance Physics Letter*, 22-25 (2014). ISSN: 2349-1108
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55. **Kaur J.**, Chandrakar D., Dubey V., Parganiha Y. And Suryanarayana N. S., Structural and photoluminescence study of $CeO_2:Eu^{3+}$ phosphors, [Optics and Spectroscopy](#), 118(5), 742-747 (2015)
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