

List of Publications

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International and National Journals

1. “Synthesis and Luminescence behaviour of BaSiO₄:Dy³⁺ phosphors in presence of charge compensator” Ganesh Ram Banjare, D. P. Bisen , N. Brahme, Chitrkant Belodhiya and **A. K. Upadhyay**; Materials Science and Engineering **798 (2020)** 012010
2. “Al₂O₃:Tb – Phosphor For Mechanoluminescence DosimetryAl₂O₃:Tb – Phosphor For MechanoluminescenceDosimetry” R. K. Rai, R. S. Kher, S. J. Dhoble, N. Divya and **A. K. Upadhyay**; *International Journal of Luminescence and applications* Vol (1) Feb, **2018**, pages 559-563, ISSN 2277 – 6362
3. “Theoretical approach of LuminolHydrogenperoxideChemiluminescence reaction” S. A. Siddiqui, V. K. Jain, S. D. Diwan, **A. K. Upadhyay**; *International Journal of Industrial Electronics and Electrical Engineering*, ISSN: 2347-6982, 2349-204X Volume-5, Issue-11, Nov.-**2017**pp 106-109.
4. “Mechanoluminescence Properties of Ba Doped LiF Crystal Induced by Applying Varying Pressure” R. K. Rai, R. S. Kher, S. J. Dhoble, N. Divya and **A. K. Upadhyay**; *International Journal of Luminescence and applications* Vol (2) July, **2017**, pages 386-392
5. “Synthesis and Luminescence Characterization of Eu Activated Al₂O₃ Phosphor” R. K. Rai, R. S. Kher, S. J. Dhoble, N. Divya and **A. K. Upadhyay**; *International Journal of Luminescence and applications* Vol (2) July, **2017**, pages 397-403
6. “Synthesis and lyoluminescence characterization of rare earth activated K₂Ca₂(SO₄)₃ phosphors” **A.K. Upadhyay**, S.J. Dhoble, R. K. Rai, R.S. Kher; *International Journal of Luminescence and applications* Vol (1) February, **2016**, pages 49-51.
7. “Mechanoluminescence and Thermoluminescence studies on gamma irradiated sodium chloride single crystal anf microcrystalline powder doped with dysprosium” Manish Kalra,R. S. Kher, S. J. Dhoble, **A. K. Upadhyay**; *Indian Journal of Pure and Applied Physics* -Vol 52 Sept **2014**pp 597-603.
8. “Correlation between thermoluminescence and mechanoluminescence of c-ray-irradiated Dy-doped BaB₄O₇ phosphors” G. C. Mishra,**A. K. Upadhyay**, S. K. Dwivedi, S. J. Dhoble, R. S. Kher; *J Mater Sci* (**2012**) 47:2752–2756 DOI 10.1007/s10853-011-6102-7.
9. “Mechanoluminescence Characterization of gamma-irradiated (KNa)Br:Ce³⁺ phosphor” P. M. Bhujbal, S. J. Dhobale, **A. K. Upadhyay**, R. S. Kher, *Journal of Luminescence* 132 (**2012**) 1468–1471.
10. “MechanoluminescenceThermoluminescence and Photoluminescence studies on Al₂O₃:Tb phosphors” R. K. Rai, **A. K. Upadhyay**, R. S. Kher and S. J. Dhoble; *Journal of Luminescence* 132 (**2012**) 210–214
11. “Device for mechanoluminescence excitation by applying gradually varying pressure on the sample” R K Rai, R S Kher, S A Khan, S J Dhoble, **A K Upadhyay**; *Indian Journal of Pure and Applied Physics* -Vol 50 July **2012**pp419-542.
12. “Synthesis and luminescence properties of rare earth doped gamma-ray-irradiated GdCa₄O(BO₃)₃ phosphors” G. C. Mishra, **A. K. Upadhyay**, R. S. Kher, S. J. Dhoble; *J Mater Sci* DOI 10.1007/s10853-011-5870-4.

13. “Thermoluminescence and Mechnoluminescence of gamma-ray-irradiated SrB₄O₇:Dy phosphors” G. C. Mishra, **A. K. Upadhyay**, S. J. Dhoble, R. S. Kher; *Micro & Nano Letters*, **2011**, Vol. 6, Iss. 12, pp. 978–981 & doi:10.1049/mnl.2011.0441.
14. “Thermoluminescence and lyoluminescence in c-ray irradiated and Ce³⁺-doped YCa₄O(BO₃)₃ phosphors” G. C. Mishra, **A. K. Upadhyay**, R. S. Kher, S. J. Dhoble; *J Mater Sci* (**2011**) 46:7275–7278 DOI 10.1007/s10853-011-5687-1.
15. “Mechanoluminescence properties of gamma-ray-irradiated BaSO₄:Eu phosphors” **A. K. Upadhyay**, S. J. Dhoble, R. S. Kher; *Luminescence: The Journal of Biological and Chemical Luminescence* **2011**; 26: 471–476
16. “Effect of deformation on the thermoluminescence of BaSO₄:Tb phosphors” **A K Upadhyay**, VikasGulhare, S J Dhoble, R S Kher; *Indian Journal of Pure and Applied Physics* -Vol 49 June **2011** pp. 382-384.
17. “Lyoluminescence and mechanoluminescence of Cu activated LiKSO₄ phosphors for radiation dosimetry” N.S. Dhoble, S.P. Pupalwar, S.J. Dhoble, **A.K. Upadhyay**, R.S. Khere; *Radiation Measurements* **2011** vol 46(12) pp 1890-1893.
18. “BaAl₂O₄:Eu Phosphor for mechanoluminescencedosimetry” R.K. Rai, **A.K. Upadhyay**, R.S. Kher, S.J. Dhoble, M. Mehta; *Radiation Measurements* **2011** vol 46(12) pp 1393-1396.
19. “Luminescence characterization of gamma-ray-irradiated rare-earth doped BaSO₄ and MgSO₄phosphors” R.S. Kher, **A.K. Upadhyay**, S.K. Gupta, S.J. Dhoble, M.S.K. Khokhar; *Radiation Measurements* 2011 vol 46(12) pp 1372-1375.
20. “Study of effect of mechanical deformation on thermoluminescence of gamma-ray irradiated Dy doped MgSO₄ phosphors”**A. K. upadhyay**, R. K. Rai, S. J. Dhoble, M. S. K. Khokhar *Radiation Measurements* **2011** vol 46(12) pp 1397-1401
21. “Impulsive excitation of mechanoluminescence in gamma-irradiated CaSO₄:Eu phosphors” R.S. Kher, S.J. Dhoble, R.K. Pandey, **A.K. Upadhyay** and M.S.K. Khokhar; *Radiation Effects & Defects in Solids: Incorporating Plasma Science & Plasma Technology*, **2010**, DOI: 10.1080/10420150.2010.507674
22. “Luminescence studies on MgSO₄:Dy phosphors” R. S. Kher, **A.K. Upadhyay**, S. J. Dhoble, M. S. K. Khokhar; *Indian Journal of Pure and Applied Physics* -Vol 46 Sept **2008** pp 607-610.
23. “Luminescence studies on γ -irradiated Dy activated KNaSO₄ phosphors” **A.K. Upadhyay**, S.J. Dhoble, R.S. Kher; *Indian J. of Phys.*, 82(11), 1467-1472 (**2008**).
24. “Synthesis of KNaSO₄:Tb³⁺ and MgSO₄:Dy³⁺ phosphors for lyoluminescencedosimetry” **A. Upadhyay**, S.J. Dhoble,, R. Rai , R.S. Kher, *Nuclear Instruments and Methods in Physics Research B* 266 (**2008**) 2594–2598.

S. No.	Title of paper	Name of the author(s)	Name of the journal & ISSN No.	Year of publication with Volume	Evidence of peer-reviewed/UGC-listed	Encl No.*
1	“Synthesis and Luminescence behaviour of BaSiO ₄ :Dy ³⁺ phosphors in presence of charge compensator	Ganesh Ram Banjare, D. P. Bisen, N. Brahme, Chitrkant Belodhiya and A. K. Upadhyay	Materials Science and Engineering	798 (2020) 012010	Peer reviewed	
2	Al ₂ O ₃ :Tb Phosphor For Mechanoluminescence Dosimetry Al ₂ O ₃ :Tb – Phosphor For Mechanoluminescence Dosimetry	R. K. Rai, R. S. Kher, S. J. Dhoble, N. Divya and A. K. Upadhyay	<i>International Journal of Luminescence and Applications</i> ISSN 2277 – 6362	Vol (1) Feb, 2018		
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