

Shri Shivaji Science College, Amravati

Name of The Teaching Faculty: **Dr.Korpe R.G.**

Department: **Physics**

Total No of Papers Published: 18

Total No of papers inScopus/ WoS:

S. N.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Details of Publication	Year of publication	ISSNnumber	Paper Scopus/ WoS indexed (Yes/ No)	Direct Link to the Paper from Scopus/ WoS or Journal
1.	Combustion synthesis and optimization of Tb ³⁺ doped AZr ₂ (PO ₄) ₃ (A ⁺ =Li, Na, K) Phosphors for mercury free lamp and plasma display panels application.	R. N. Wankhade, N. S. Bajaj, V. B. Bhatkar, S. K. Omanwar	Physics	Journal of the Chinese Advanced Materials Society. Taylor & Francis Publication.	Vol.3 Issue 12 Pg. No. 300-309	2015	Print ISSN: 2224-3682 Online ISSN: 2168-1031	Yes	

2.	Novel Preparation Method and Luminescent Properties of Eu ³⁺ Doped YBO ₃ Phosphor Under VUV Excitation.	R. N. Wankhade, N. S. Bajaj, V. B. Bhatkar, S. K. Omanwar	Physics	International Journal of Science, Environment and Technology	Vol.4 Issue1	2015	ISSN 2347-3487		
3	VUV Properties of Eu ³⁺ - doped YBO ₃ Phosphor Prepared via Aldo-Keto and Solid-State Process.	R. N. Wankhade, N. S. Bajaj, G. V. Korpe, V. B. Bhatkar, S. K. Omanwar	Physics	Journal of Advances in Physics	Vol.7 Pg.No.1897	2015	E-ISSN: 2347-3487		
4	Low Temperature Stearic Acid Sol-Gel Synthesis of Nano Crystalline MgO	R. N. Wankhade, G. V. Korpe, N. S. Bajaj, V. S. Hingwe	Physics	Review of Research / Recent Advances in Nano Technology	Vol.1, Issue 3	2019	ISSN: 2249-894X		
5	VUV Properties of Eu ³⁺ - Doped Y ₂ O ₃ Phosphor	R. G. Korpe and S. K. Omanwar	Physics	Carbon Science and Technology	Pg.No.01-07	2020	ISSN 0974-0546		

	Prepared via Solution Combustion and Solid-State Diffusion Method								
6	VUV Excited Luminescent Studies of CaF ₂ : Eu Tailored by Reducing Treatment to Eu ²⁺ ion.	R. G. Korpe, N.S. Bajaj, G. V. Korpe, S. K. Omanwar	Physics	Vidyabharati International Interdisciplinary Research Journal	112-117	May 2020	Special Issue –ISSN 2319-4979		
7	VUV Investigation of Blue Emitting MAI ₁₂ O ₁₉ : Eu (M = Ca, Sr, Ba) Phosphors Synthesized by Combustion Method.	R. G. Korpe, K. A. Koparkar, N.S. Bajaj, S. K. Omanwar	Physics	Journal of Physics: Conference Series	1644(2020) 012056	2020	ISSN 1742-6596		

8	Novel Molten Salts Synthesis and Photoluminescence Properties of Eu Novel Molten Salts Synthesis and Photoluminescence Properties of Eu.	R.G.Korpe,K.A.Koparkar, N. S. Bajaj, S. K. Omanwar	Physics	International Journal of Scientific Research in Science and Technology	Volume 8 Issue 1,Pg.No.476-479	2021	PrintISSN:2395-6011		
9	Aldo-Keto Gel Synthesis and Photoluminescence Properties of YVO ₄ : Eu ³⁺ Microsphere	K.A. Koparkar, R.G. Korpe, G.V.Korpe, S.K.Omanwar	Physics	International Journal of Scientific Research in Science and Technology	Volume 8, 480-483	2021	PrintISSN:2395-6011 Online ISSN:2395-602X		
10	Effect of Synthesis Techniques on VUV Properties of Eu ³⁺ Doped YVO ₄ Phosphors: A	R. G. Korpe, N.S. Bajaj, G.V.Korpe, S. K. Omanwar	Physics	International Journal of Scientific Research in Science and	Volume 9, Issue 6,Pg.No.280-286,	2021	print ISSN: 2395-6011, online ISSN: 2395-602X.		

	comparative Study.			Technolo gy					
11	Synthesis of SM^{3+} Doped $YAL_3(BO_3)_4$ Orange Red Emitting Phosphor For LED	K.A. Koparkar, R. G. Korpe, G. V. Korpe	Physics	Vidyabhara ti Internatio nal Interdisci plinary research Journal	265-267	2022	ISSN: 2319-4979		
12	A Synthesis and Fluorescence Properties of Trivalent Europium Doped Yttrium Vanadate and $YVO_4: Eu^{3+}$ @SiO ₂ for Biological Application	R. G. Korpe, K.A. Koparkar, G. V. Korpe, S. K. Omanwar	Physics	Internatin al Journal of Scientific Research in Science and Technolo gy	Vol 9 Issue 13, 393-397	2022	print ISSN: 2395-6011, online ISSN: 2395-602X.		

13	Highly efficient green light-emitting K _{Sr} (Gd, Y)(PO ₄) ₂ : Tb ³⁺ phosphor for Mercury Free Fluorescent Lighting and PDPs,	S. R. Jaiswal, R. G. Korpe, P. A. Nagpure	Physics	J. Electrical Systems	Vol-Issue 1-12, 925-935	2024	1112-5209	Yes	
14	High quantum efficiency alternative long wave UV emitting borate phosphors for phototherapy and plant growth,	Nivedita Kherde, Rupali Korpe, Pankaj Nagpure and Shriniwas Omanwar	Physics	Journal of Technology	Volume 12 Issue 10, 110-122	2024	ISSN:10123407	Yes	
15	An analysis of the geochemical composition of groundwater in rural and urban area of Karanja	Mr. N. A. Deshmukh, Dr. G. V. Korpe, Dr. R. G. Korpe, Dr. R. E. Bhadange	Physics	Aayushi International Interdisciplinary Research Journal	NCMRI-2024 Special Issue No.138	2024	ISSN 2349-638x		

	Tehsil of Washim District (MH).								
16	Hydrochemical Characterization And Irrigation Suitability Of Groundwater In Akola Tehsil, Maharashtra	A. L. Tarale , Dr, G. V. Korpe, N. A. Deshmukh, Dr. R. G. Korpe	Physics	International Journal of Creative Research Thoughts (IJCRT)	Volume 14, Issue 3	2026	ISSN:2320-2882	Peer - Reviewed	
17	Multivariate Statistical Investigation And Hydrogeochemical Analysis Of Hard Rock Aquifer Groundwater Quality From Deccan Trap Basalt In Washim District, Maharashtra, India	N. A. Deshmukh, Dr. G. V. Korpe, A. L. Tarale, Dr. R. G. Korpe	Physics	International Journal of Creative Research Thoughts (IJCRT)	Volume 14, Issue 7	2026	ISSN:2320-2882	Peer - Reviewed	

18	Structural defects and energy transfer dynamics in acetic acid derived Eu^{3+} / Tb^{3+} co-doped Y_2O_3 phosphors for anti-counterfeiting and lighting applications	A.H.Bodke, A.M.Jadhav, N.S.Bajaj, R.G.Korpe, P.A.Nagpure, H.R.Shaikh	Physics	Journal of optics		01 March 2026		Yes	https://link.springer.com/article/10.1007/s12596-026-03055-9
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