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Chhatrapati Shahu Maharaj Shikshan Sanstha's

CHH. SHAHU COLLEGE OF ENGINEERING



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Approved by AICTE New Delhi, DTE (Govt. of Maharashtra) and affiliated to Dr. BATU, Lonere (Raigad). DTE Code: 2533

Science & Humanities (First Year Engineering) Department List of Patents (Utility/Design/Copyrights.)

Sr	Details Type (Utility/ Status (Published/				
No.	Details	Design/ Copyrights)	Examination/ Applied)		
	A.Y. 2023-24	10 8 /			
1.	Abhijeet R. Kadam, Milind Jog, M.Jayasimhadri, Sanjay J. Dhoble, A biomaterial for thermoluminescence high dose dosimetry and method of preparation thereof. P. No. 202021053088	Utility	Granted		
	A.Y. 2022-23				
1.	Prashant N. Parale, Abhijeet R. Kadam , Kamlesh V. Dabre, Abhivilas S. Nakhate, Sanjay J. Dhoble, Synthesis Process of orange deep red emittingSm ³⁺ , Eu ³⁺ , Pr ³⁺ triple activated KBa ₂ (PO ₃) ₅ phosphite glass for WLEDs, P. No. 2022/12119	Utility	Granted		
	A.Y. 2021-22				
1.	Sanjay J. Dhoble, Toshi S. Dhapodkar, Abhijeet R. Kadam , Radhika G. Deshmukh, Nayana S. Shirbhate, A Highly Efficient Far Red Emitting Mg ₂₁ Ca ₄ Na ₄ (PO ₄) ₁₈ : Ce ³⁺ , Eu ³⁺ Phosphor For Plant Cultivation, P. No: 2022/01063	Utility	Granted		
2.	Sanjay J. Dhoble, Ramkumar B., Kamble Abhijeet R. Kadam Vibha Chopra, RGB emission andsolar efficiency enhancement in Eu ³⁺ , Tb ³⁺ co-activated K ₂ NaAlF ₆ down conversion phosphors by energy transfer mechanism, P. No. 2021102302	Utility	Granted		
3.	Samirkumar R., Bhelave, Abhijeet R. Kadam , Atul N. Yerpude, Sanjay J. Dhoble, Synthesis of Eu ³⁺ -Tb ³⁺ activated/co-activated Ca ₁₄ Zn ₆ Al ₁₀ O ₃₅ white light emitting phosphors, P. No. 2021101716	Utility	Granted		
4.	Abhijeet R. Kadam, Digambar A. Ovhal, Nirupama S. Dhoble, Sanjay J. Dhoble, A solar cell efficiency enhancement by downshifting layer of KALF ₄ :DY ³⁺ , EU ³⁺ co-activated	Utility	Granted		



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	downconversion phosphor as spectral converters,		
	P. No.: 2021102696		
5.	Toshi S. Dhapodkar, Abhijeet R. Kadam,	Utility	Published
	Nameeta Brahme and S. J. Dhoble, Synthesis and		
	luminescence investigation of Mg ₂₁ Ca ₄ Na ₄ (PO ₄) ₁₈ :		
	Dy ³⁺ , Tb ³⁺ , Eu ³⁺ triple doped glasses for WLEDs		
	and solar cell efficiency enhancement, P. No.:		
	202221006510 A		
	20222100031071		
	A.Y. 2020-21		
1.	A.R. Kadam, Girish C. Mishra, S. J. Dhoble,	Utility	Granted
	Process for synthesis of Ce ³⁺ , Eu ²⁺ co-doped		
	BaSiF ₆ phosphor, P. No. 350918		
2.	Kena J. Shukla, A. R. Kadam and S. J. Dhoble,	Utility	Published
	System for energy harvesting, P. No.:		
	202021006706 A		
3.	Abhijeet R. Kadam, Swati A.Fartode, Samiksha	Utility	Published
	B.Dhoble, Sanjay J.Dhoble, A		
	thermoluminescence biomaterial for high radiation		
	dose dosimetry and method of preparation thereof,		
	P. No.: 202021053087 A		