




K.S.INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Road, Bangalore-560109.

Faculty Name	Dr. SHASHIKALA B S	
Designation	Associate Professor	
Educational Qualification	M.Sc., M. Phil., Ph. D	
Experience in Years	Teaching:19 Industry : - Research:10 years	
Areas of Interest	AMOP, Material Science	
E-mail	shashikalabs@ksit.edu.in	

Educational Details

Examination/ Degree	College/University	Year of Passing
UG	Vivekananda Degree College/Bangalore University	2003
PG	Jnanabharathi /Bangalore University	2005
M. Phil	Periyar University	2008
PhD	VTU	2023

Publications

Journal Publications:

- 1) **B. S. Shashikala**, H. B. Premkumar, G. P. Darshan, H. Nagabhushana, S. C. Sharma, S. C. Prashantha, H. P. Nagaswarupa, Synthesis and Photoluminescence Studies of an Orange Red Color Emitting novel $\text{CaAl}_2\text{O}_4: \text{Sm}^{3+}$ nanophosphor for LED Applications, *Materials Today proceedings*, 4 (2017) 11820-11826.
- 2) **B. S. Shashikala**, H. B. Premkumar, G. P. Darshan, H. Nagabhushana, S. C. Prashantha, Spectroscopic Studies of Strong Red Emitting $\text{CaAl}_2\text{O}_4: \text{Eu}^{3+}$ Nano-phosphor for WLED's Applications Using Judd-Ofelt Theory, *International Journal of Luminescence and applications*, Vol 9(1) February, 2019, ISSN 2277-6362.
- 3) **B. S. Shashikala**, H. B. Premkumar, G. P. Darshan, H. Nagabhushana, S. C. Sharma, S. C. Prashantha, Rational Design of Bi-Functional RE^{3+} (RE = Tb, Ce) and Alkali Metals ($\text{M}^+ = \text{Li}, \text{Na}, \text{K}$) Co-Doped CaAl_2O_4 Nanophosphors for Solid State Lighting and Advanced Forensic Applications, *Mater. Res. Bull.*, 115 (2019) 88-97.
- 4) **B. S. Shashikala**, H. B. Premkumar, G. P. Darshan, S. C. Sharma, H. Nagabhushana, B. Daruka Prasad, Dy^{3+} ions activated CaAl_2O_4 nanophosphors: Photoluminescent and photometric properties prompted manifold applications, *Inor. Chem. Commun.*, 142 (2022) 109619.
- 5) **B. S. Shashikala**, H. B. Premkumar, G. P. Darshan, D. R. Lavanya, S. C. Sharma, H. Nagabhushana, Intense red-emitting core-active shell $\text{SiO}_2@ \text{CaAl}_2\text{O}_4: \text{Eu}^{3+}$ surface sensitive fluorescent probe for dactylography applications, *Mater. Chem.*, 297 (2023) 127358.

Conference Papers:

1. "Photoluminescence studies of Eu doped CaAl_2O_4 nanophosphor for WLED's Applications" presented at Global Convergence in Technology, Entrepreneurship, Computing and value Engineering: Principles and Practices. ICGCP-2022 held in Sathagiri College of Engineering, Bengaluru during 5-7 May 2023. Presented a paper "Conductivity studies on molybdo-phosphate glasses containing ZnO" in 62nd DAE Solid State Physics Symposium, held in Bhabha Atomic Research Centre, Mumbai during 26th - 30th December 2017.
2. "Ultrasonication Assisted Synthesis of Dy^{3+} Activated CaAl_2O_4 nanophosphor: Photoluminescent and Photometric Properties Prompted WLED's and Latent Fingerprints Development Applications" presented at Global Convergence in Technology, Entrepreneurship, Computing and value Engineering: Principles and Practices. ICGCP-2022 held in Sathagiri College of Engineering, Bengaluru during 24-25 June 2022.
3. "Photoluminescence studies of strong red emitting Phosphors for display applications" presented at International Conference on Global Convergence in Technology, Entrepreneurship, Computing and value Engineering: Principles and Practices. ICGCP-2021 held in Sathagiri College of Engineering, Bengaluru during 16-17 July 2021.
4. "Spectroscopic Studies Of Strong Red Emitting $\text{CaAl}_2\text{O}_4:\text{Eu}^{3+}$ Nano Phosphor WLED's Applications Using Judd-Ofelt THEORY" presented at International Conference On Luminescence and Its Applications held in Pt. Ravishankar Shukla University, Raipur during 7-9 Jan 2019.
5. "Structural analysis and enhanced photoluminescence via Ce^{3+} in a Tb^{3+} doped CaAl_2O_4 nanophosphor" presented at the National Conference on Trends in Advanced Materials (TAMA-2017) held in Tumkur University during 31st Dec 2017.
6. "Synthesis and Photoluminescence Studies of an Orange Red Color Emitting novel $\text{CaAl}_2\text{O}_4:\text{Sm}^{3+}$ nanophosphor for LED Applications" presented at the International Conference on Nanotechnology (ICNANO-2016) held in VTU, Center for post graduate studies, Muddenahalli during 19-21, Oct 2016.
7. "Synthesis and Photoluminescence studies of an orange red color emitting novel $\text{CaAl}_2\text{O}_4:\text{Sm}^{3+}$ nanophosphor for LED applications" presented at the National Conference on Advances in Science and Engineering (AFM-2015) held in Dayananda sagar College of Engineering, Bengaluru during 4-5, Dec 2015.

Awards

1.

Other Accomplishment

1.

Research Guidance

1.

Professional Membership

1. Life member of Indian Association of Physics Teachers (IAPT).

Contact Details

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