

Profile

Name of the Faculty	Dr. Susrutha Bonthu	
Designation	Assistant Professor	
Department	Freshman Engineering (Chemistry)	
Area of Interest	Nanomaterials and Renewable energy harvesting materials	
Subjects Taught	Engineering Chemistry	
JNTUH Registration Id	4851-221110-143514	
College Staff Code	SC1760	
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Educational Qualifications:

S.No.	Degree	Specialization	University/College	Year
1	Ph. D.	Materials Science	Indian Institute of Technology Kharagpur	2014
2	M. Sc.	Analytical Chemistry	Osmania University	2006
3	B. Sc.	M. P. C.	Acharya Nagarjuna University	2004

Publications Details :

S. No.	Publication details
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1.	B. Susrutha, A. D. Phule, Facile synthesis of Au nanorods in PVF ₂ non-aqueous solution with tailored absorption in near-infrared region, MRS Advances, 2024. https://doi.org/10.1557/s43580-024-00910-4
2.	B. Susrutha, A. D. Phule, A Facile method to develop electroactive β -phase in PVF ₂ molecules by doping Au-nanoparticles in form of nanocomposites for dielectric applications, Arabian Journal for Science and Engineering, 2024. https://doi.org/10.1007/s13369-024-08851-8
3.	B. Susrutha, Bharath kumar Chennuri, S. Chandrasekhar, N. Mahesh, Amritha Saha, Machine learning in drug discovery: Innovations at the molecular level, Journal of Chemical Health Risks, Vol. 13 (2023) pp. 1204-1211.
4.	B. Susrutha, Lingamallu Giribabu, and Surya Prakash Singh, Recent advances in flexible perovskite solar cells, Chemical Communications, Vol. 51 (2015) pp.14696-14707.
5.	B. Susrutha, S. Ram, and A. K. Tyagi, Percolative effects of poly(vinylidene fluoride) molecules on C=O group vibrations in N,N-dimethylformamide molecules in molecular assemblies, Journal of Molecular Liquids, Vol. 186 (2013) pp.116-121.
6.	B. Susrutha, S. Ram, and A. K. Tyagi, Effects of gold nanoparticles on rheology of nanofluids containing poly(vinylidene fluoride) molecules, Journal of Nanofluids, Vol. 1 (2012) pp. 120-127.
7.	B. Susrutha, S. Ram, and A. K. Tyagi, Local vibration assisted molecular configurations in poly(vinylidene fluoride) of ordered ferroelectric phase in N,N-dimethylformamide, Journal of Molecular Liquids, Vol. 161 (2011) pp. 132-138.

Experience:

Teaching	2.9 years
Industry	-
Research	2 years
Total Experience	4.9 years