

Research Scholars Details

Name of the scholar	Shibani Jena
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Registration Number	Not Registered
Name of the department & address	School of Chemistry
	Sambalpur University, Jyoti Vihar, Burla, 768019
Name of the supervisor &	Dr. Nabakrushna Behera,
correspondence address	School of Chemistry
Details of funding agency/scheme	UGC, New Delhi
	(UGC-BSR Fellowship)
Title of the research topic	Development of novel complexes of transition as well as rare earth
	metals based on triazole schiffbase ligands and evaluation of their
	fluorescence properties.
Abstract of the research work	The excellent co-ordination behaviour towards metal ions as well as
(max. 300 words)	exhibition of biological properties of organic heterocyclic ligands
	that contain nitrogen atom as the hetero element in their ring
	structures has received considerable interest by the research
	community. The co-ordination activity of these nitrogen based
	ligands stems from its π -electron availability. In particular, five
	membered ring triazole that has ample π -electrons acts as a very
	good π -donor ligand to the Lewis acid moieties. Triazole based
	metal complexes are found to have varied applications in different
	fields such as in catalysis, sensor, and biological activity like
	cytotoxicity, antifungal, antibacterial etc. Encouraged by the
	various roles of triazole based metal complexes, it has been planned
	for research that to development the novel complexes of transition
	as well as rare earth metals based on triazole Schiff base ligands
	and evaluation of their fluorescence properties.
Progress of the research work	~ 40% progress
Journal publication	Nil
Conference attended	National Conference on Recent Trends in Chemical Sciences
	(RETICS-2017) held during 22-23 rd March, 2017 at School of
	Chemistry, Sambalpur University, Jyoti Vihar, Burla-768019, Odisha.
	National Conference on Surfactants, Emulsions and Bio-colloids
	(NATCOSEB-2017) held during 10-12 th November, 2017 at
	School of Chemistry, Sambalpur University in association with
	Indian Society for Surface Science and Technology.
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Awards	Nil