Faculty Profile

Name &Address	Dr. Priyadarshini Sayala
Educational Qualifications	M.Sc., CSIR-NET, PhD.,
Area of Expertise	Catalysis& Methodology Development, C-H activation.
Teaching Experience	Nil
Research Experience	7 years
Present Post & Responsibilities held	Lecturer in Chemistry
Professional Training Programs attended	Trained for Development of Process for some important Chiral Pharma Intermediates via Asymmetric Hydrogenation Technologies
Publications in Journals	***International:*** 1) *Copper-Mediated C-X Functionalization of Aryl Halides*. *P. J. Amal Joseph,* ***S. Priyadarshini,*** *Organic Process Research & Development,2017, 21,1889-1924.* 2) *Copper catalyzed oxidative cross-coupling of aryl and heteroaryl amines with 2-pyrrolidinone: A facile synthesis of γ-N-aryl-γ-lactams.* ***S. Priyadarshini,*** *P. J. Amal Joseph, M. Lakshmi Kantam. Tetrahedron* ***2014****, 36, 6068–6074.* 3) *Copper catalyzed cross-coupling reactions of carboxylic acids: An expedient route to amides, 5-substituted γ-lactams and α-acyloxy esters.* ***S. Priyadarshini,*** *P. J. Amal Joseph, M. Lakshmi Kantam. RSC Advances* ***2013****, 3, 18283–18287.* 4) *Investigation of the scope and mechanism of copper catalyzed regioselective methylthiolation of aryl halides. P. J. Amal Joseph,* ***S. Priyadarshini,*** *M. Lakshmi Kantam, B. Sreedhar. Tetrahedron* ***2013****, 69, 8276–8283.* 5) *Copper MOF: scope and limitation in catalytic hydroxylation and nitration of aryl halides.* ***S. Priyadarshini,*** *P. J. Amal Joseph, M. Lakshmi Kantam, B. Sreedhar. Tetrahedron* ***2013****, 69, 6409–6414.* 6) *Catalytic guanylation of aliphatic, aromatic, heterocyclic primary and secondary amines using nanocrystalline zinc(II) oxide. M. Lakshmi Kantam,* ***S. Priyadarshini,*** *P. J. Amal Joseph, P. Srinivas, A. Vinu, K. J. Klabunde. Tetrahedron* ***2012****, 68, 5730–5737.* 7) *Copper catalyzed ipso-nitration of iodoarenes, bromoarenes and heterocyclic haloarenes under ligand-free conditions. P. J. Amal Joseph,* ***S. Priyadarshini,*** *M. Lakshmi Kantam, H. Maheswaran. Tetrahedron Letters* ***2012****, 53, 1511–1513.* 8) *Sulfonic acid resin and copper salts: a novel heterogeneous catalytic system for direct hydroxylation of haloarenes. P. J. Amal Joseph,* ***S. Priyadarshini,*** *M.*

	*Lakshmi Kantam, H. Maheswaran. Catalysis Science and Technology **2011**, 1, 582–585.* 9) *Sulfonic acid containing cation-exchanger resin "INDION-770" & copper(I) salts: A novel reusable catalyst for N-arylation of NH-heterocycles with haloarenes. P. J. Amal Joseph, **S. Priyadarshini,** M. Lakshmi Kantam, H. Maheswaran. Catalysis Science and Technology **2011**, 1, 234–238.* 10) *Bis(μ-iodo)bis((-)-sparteine)dicopper(I) catalyzed Sonogashira-type reaction under palladium and phosphine-free conditions. **S. Priyadarshini,** P. J. Amal Joseph, P. Srinivas, H. Maheswaran, M. Lakshmi Kantam, Suresh Bhargava. Tetrahedron Letters **2011**, 52, 1615–1618.* 11) *Investigations of enantioreversal in both direct and directed enantioselective aldol reaction catalyzed by $CuCl_2$[(-)-sparteine] and $NiCl_2$[(-)-sparteine] complexes. H. Maheswaran, P. J. Amal Joseph, K. Leon Prasanth, **S. Priyadarshini,** P. Satyanarayana, Praveen R. Likhar, M. Lakshmi Kantam. Tetrahedron Asymmetry **2010**, 21, 2158–2166.*
National /International Seminars attended	Participated in 21st National Symposium on ***"Catalysis for Sustainable Development"*** (CATSYMP-21) held at CSIR-Indian Institute of Chemical Technology, Hyderabad, India on 11-13 February 2013.
Awards /Honours	1. Awarded Lectureship ***CSIR-NET*** by CSIR-UGC in December 2007. 2. Awarded ***CSIR-SRF*** by CSIR-HRDG in February 2011. 3. Awarded ***SERB INDO-US*** Postdoctoral Fellowship for the year 2016.