

Dr SUJA HARIDAS

Assistant Professor

Department of Chemistry

Cochin University of Science and Technology

Cochin University P. O, Cochin – 682 022, Kerala,

India.

Mobile: 9847436638

Email: sujaharidas123@gmail.com, sujaharidas@cusat.ac.in

ACADEMIC RECORD

- **PhD** (1999-2002)
Department of Applied Chemistry, CUSAT.
- **M Sc Applied Chemistry** (1996-1998)
First class with Distinction, First rank (81.2%)
Department of Applied Chemistry, CUSAT.
- **B Sc Chemistry** (1993- 1996)
First class with Distinction, First rank (97.3%)
University of Calicut

AWARDS/ FELLOWSHIPS

CSIR-JRF, NET	December 1997
CSIR RA	2003- 2005

RESEARCH EXPERIENCE

- Ph.D from Department of Applied Chemistry, Cochin University of Science and Technology under the supervision of Dr. S.Sugunan
Title: Studies on Catalysis by Transition Metal Promoted Sulphated Zirconia
- CSIR Research Associate at Department of Applied Chemistry, Cochin University of Science and Technology (October 2003 to Aug 2005)

TEACHING EXPERIENCE

- Lecturer (Contract), Department of Applied Chemistry, CUSAT
13-09-2002 to 30-09-2003
17-08-2005 to 14-10-2008
- Assistant Professor, N.S.S College, Nemmara
15-10-2008 to 08-08-2017
- Assistant Professor, Department of Applied Chemistry, CUSAT
09-08-2017 till date

Externally Funded Research Projects Completed				
SI No	Title	Funding Agency	Amount & Duration	Principal investigator/ Co-investigator
1	Visible light sensitive TiO ₂ - polyaniline nanocomposites for photocatalytic applications	UGC (Minor) Completed	1,60,000 18 months	Principal Investigator
2	Synthesis and Characterisation of Titania Nanocomposites for Photocatalytic Applications	UGC (Major) Completed	5,04,500	Principal Investigator
3	Dye Encapsulated Mesoporous Materials- Photophysical and Photochemical Evaluation	KSCSTE Completed	13,00,000	Principal Investigator

AREAS OF SPECIALISATION:

Heterogeneous and Photocatalysis, Adsorption and Kinetics, Material and Green Chemistry.

PRESENT CONCERNS

- ☞ Polymer Nanocomposites
- ☞ Nanomaterials for energy and environmental applications
- ☞ Heterogeneous and Photocatalysis

LIST OF PUBLICATIONS

- ☞ **Strontium titanate aided water splitting: An overview of current scenario**, Rosmy Joy, Suja Haridas, International Journal of Hydrogen Energy, 46(2), 2021, 1879-1903. **I.F 4.939**
- ☞ **Enhanced nonlinear absorption and efficient optical limiting action of a few 1,3,4-oxadiazole-based donor-acceptor systems**, T M Remya, E Shiju, P P Shandev, K Chandrasekharan, Suja Haridas, P.A Unnikrishnan, Journal of Materials Science, 56, 2021, 3035. **I.F 3.553**

- ✂ **Effect of substituents on the fluorescent quenching of a few (anthracen-9-yl) methanamines**, Rani Mathew, Rekha R Mallia, Jomon P Jacob, Suja Haridas, *Journal of Photochemistry and Photobiology A*, 397, 2020, 112552. **I.F 3.306**
- ✂ **Recent Progresses in porphyrin mediated hydrogen evolution**, Merin Joseph, Suja Haridas, *International Journal of Hydrogen Energy*, 45(21), 2020, 11954. **I.F 4.939**
- ✂ **Copper oxide modified SBA-15 for the selective vapour phase dehydrogenation of cyclohexanol to cyclohexanone**, Chandralayam Soumini, Sankaran Sugunan, Suja Haridas, *J. Porous Mater.*, 26(3) 2019, 631-640. **I.F 2.183**
- ✂ **Visible light induced photocatalytic activity of polyaniline modified TiO₂ and Clay-TiO₂ composites**, Sandhya K P, Suja Haridas, S Sugunan, *Bulletin of Chemical Reaction Engineering and Catalysis*, 8 (2) 2013 145
- ✂ **Thermal characterization of dye intercalated K-10 montmorillonite ceramics using photoacoustic technique**, Lyjo K Joseph, H Suja, G Sanjay, S Sugunan, V P N Nampoori and P Radhakrishnan, *Philosophical magazine and Philosophical Magazine Letters*, 10(1) (2009) 895. **I.F 1.632**
- ✂ **Thermal characterization of methylene blue intercalated montmorillonites by photoacoustic technique"** Lyjo K Joseph, H Suja, G Sanjay, S Sugunan, V P N Nampoori and P Radhakrishnan. *Appl. Clay Sci.*, 42 (2009) 483. **I.F 4.605**
- ✂ **Liquid phase benzylation over iron incorporated sulphated zirconia systems**, Suja.H, S.Sugunan, *Ind, J Chem.*, 44A (2005) 2208- 2213
- ✂ **Influence of sulfate content on the physico chemical properties and catalytic activities of some sulfate zirconia systems.** H. Suja, C.S. Deepa, K. Sreejarani and S. Sugunan, *Ind. J. Chem.*, **42A** (2003) 1840.
- ✂ **Liquid phase benzylation of toluene over iron incorporated sulfated zirconia systems.**, H. Suja, C.S. Deepa, K. Sreejarani and S. Sugunan, *React. Kinet. Catal. Lett.*, **79** (2003) 373.
- ✂ **Liquid phase benzoylation of arenes over iron promoted sulphated zirconia**, Suja. H, Deepa.C.S, Sreejarani.K, and S. Sugunan, *Appl. Catal. A. Gen.*, **1-2** (2002) 228. **I.F 5.006**
- ✂ **Iron Promoted sulphated zirconia systems as efficient catalysts for phenol hydroxylation**, H.Suja and S.Sugunan, *Bull. Catal. Soc. India*, **2** (2003) 194.

- ✂ **Surface properties and catalytic activity of sulphated rutile**, S. Sugunan, T. Radhika and H. Suja, *React. Kinet. Catal. Lett.*, **79(1)** (2003) 27.
- ✂ **Surface properties and catalytic activity of phosphated zirconia**, Smitha V.K., Suja H, Joyce Jacob and Sugunan S, *Ind. J. Chem.*, **42A** (2003) 300.
- ✂ **Catalysis by some metal oxides modified with phosphate ions**, S. Sugunan, H. Suja, C.S. Deepa, K. Sreejarani and M.V. Ouseph, *Ind. J. Chem.*, **41A** (2002)
- ✂ **Acidity and catalytic activity of sulfate modified mixed oxides of tin and praseodymium**, S. Sugunan, K. Sreejarani, C.S. Deepa and H. Suja, *React. Kinet Catal. Lett.*, **71 (2)** (2000) 307.
- ✂ **Acidity and catalytic activity of rare earth modified Al/Zr pillared clays**, S. Sugunan, K. Nisha, R. Rekha, K.S. Rehna, H. Suja and C.S. Deepa, *Ind. J. Chem.*, **39A** (2000) 765.

PROFESSIONAL AFFILIATIONS

- Catalysis Society of India (Life Member)