

**Dr. Ganji Saidulu**  
**Assistant Professor**  
**MSc., PhD.**  
**DOB: 12-06-1986**  
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<https://scholar.google.co.in/citations?hl=en&user=yALN0OAAAAAJ>

### **Education:**

**Ph.D:** Chemistry, Osmania University(CSIR-Indian Institute of Chemical Technology), Hyderabad, India. **2009-2015**

**Thesis Title:** “*Synthesis, characterization and catalytic applications of transition metal/metal oxide nanoparticles embedded in SBA-15 matrices*”

Research Supervisor: **Dr. B. David Raju**

**M.Sc:** Chemistry, Kakatiya University, Warangal, (66.08%) **2006-2008**

**B.Sc:** Chemistry, Physics and Mathematics, Osmania University, Hyderabad. (68.72%) **2003-2006**

**Intermediate:** Sahithi Jr. College, Miryalguda (80.8%) **2001-2003**

**SSC:** ZPHS, Agamothkur, Nalgonda (79.5%) **2000-2001**

### **Fellowships and Awards:**

- Post-doctoral research fellowship, **Shaanxi Normal University, Xian, China (March-2016-Oct-2017)**
- Awarded Senior Research Fellowship (**SRF**) from Council of Scientific and Industrial Research (**CSIR**) New Delhi, India (**2011-2014**)
- Awarded Junior Research Fellowship (**JRF**) from the Council of Scientific and Industrial Research (**CSIR**), New Delhi, India (**2009-2011**)
- **Silver Medal** for securing cent percent marks from Sahithi Jr. College (Intermediate Mathematics-75/75, **2003**)
- Secured **2<sup>nd</sup> Prize** in Quiz competition at 21<sup>st</sup> National Symposium on Catalysis: Catalysis for Sustainable Development, IICT, Hyderabad, India, **2013**

### **List of Publications:**

1. RhNPs/SBA-NH<sub>2</sub>: A high-performance catalyst for aqueous phase reduction of nitro arenes to amino arenes at room temperature  
**Saidulu Ganji**, Siva Sankar Enumula, Ravi Kumar Marella, Kamaraju Seetha Rama Rao and David Raju Burri, *Catalysis Science and Technology*, **2014**, 4, 1813. (I.F. 5.77)

2. Selective hydrogenation of the C=C bond of  $\alpha$ ,  $\beta$ -unsaturated carbonyl compounds over PdNPs–SBA-15 in a water medium  
**Saidulu Ganji**, Suresh Mutyala, Chinna Krishna Prasad Neeli, Kamaraju Seetha Rama Rao and David Raju Burri, *RSC Advances*, **2013**, 3, 11533. (I.F. 3.108)
3. Highly efficient and expeditious PdO/SBA-15 catalysts for allylic oxidation of cyclohexene to cyclohexenone  
**Saidulu Ganji**, Padma Bukya, Venkateswarlu Vakati, Kamaraju Seetha Rama Rao and David Raju Burri, *Catalysis Science and Technology*, **2013**, 3, 409-414. (I.F. 5.77)
4. Cu/SBA-15 is an efficient solvent-free and acid-free catalyst for the rearrangement of benzaldoxime into benzamide  
**G. Saidulu**, N. Anand, K.S. Rama Rao, B. Abhishek, S.-E. Park, D.R. Burri, *Catalysis Letters*, **2011**, 141, 1865–1871. (I.F. 2.307)
5. Ni nanoparticles supported on mesoporous silica (2D, 3D) architectures: Highly efficient catalysts for the hydrocyclization of biomass-derived levulinic acid  
Mohan V, Venkateswarlu V, **Saidulu G**, David Raju B, Ramarao KS, *RSC advances*, **2015**, 5, 57201. (I.F. 3.108)
6. Selective oxidation of benzylamine to N-benzyl benzaldimine over nanogold immobilized SBA-15 under solvent-free conditions (I.F. 2.349)  
Chinna Krishna Prasad Neeli, Ravi Kumar Marella, **Saidulu Ganji**, Kamaraju Seetha Rama Rao and David Raju Burri, *Journal of Chemical Technology & Biotechnology*, **2014**, 70, 1657.
7. Vapor phase chemoselective conjugate hydrogenation of isophorone over Pd/SBA-15 catalysts (I.F. 0.494)  
Venkateswarlu Vakati, **Saidulu Ganji**, Ravi Kumar Marella, Kamaraju Seetha Rama Rao & David Raju Burri, *Indian Journal of Chemistry*, Vol. 53A, April-May **2014**, pp. 557-560.
8. Oxidative coupling of primary amines to imines under base free and additive-free conditions over AuNPs/SBA-NH<sub>2</sub> nanocatalyst. (I.F. 3.108)  
Chinna Krishna Prasad Neeli, **Saidulu Ganji**, Venkata Siva Prasad Ganjala, Seetha Rama Rao Kamaraju and David Raju Burri, *RSC Advances*, **2014**, 4, 14128-14135. (I.F. 3.108)
9. Vapor phase esterification of levulinic acid over ZrO<sub>2</sub>/SBA-15 catalyst  
E. Siva Sankar, V. Mohan, M. Suresh, **G. Saidulu**, B. David Raju, K.S. Rama Rao, *Catalysis communications*, **2016**, 75, 1. (I.F. 3.507)

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#### Conference and Symposia:

1. **16<sup>TH</sup> International congress on catalysis** held on 3-8<sup>th</sup> July, 2016, Beijing, China.
2. 22<sup>nd</sup> National Symposium on **“Catalysis for Better Tomorrow”** held on 7-9<sup>th</sup> January 2015 at CSIR-CSMCRI, Bhavanagar, Gujarat, India.
3. International conference on **Nano, Bio & Material Sciences (ICONBMS-2014)** held on 8-10<sup>th</sup> January, 2014 at Nizam College, Hyderabad, India.
4. International Conference **NanoSciTech-2014** on **“Nanotechnology in the service of Health, Environment & Society”** held on 13-15<sup>th</sup> February 2014 at Punjab University, Chandigarh, India.

5. International conference on “*Nano, Bio & Material Sciences*”, January -2014, NIZAM College, Hyderabad, India.
6. **Indian Analytical Science Congress-2013**, International Centre Goa, India-August15-17<sup>th</sup>.
7. National Seminar on “**Emerging Trends in Analytical Sciences**” held at IICT, Hyderabad, India, November-2013.
8. 21<sup>st</sup> National symposium on “**Catalysis for Sustainable development**” held at IICT, Hyderabad, India, 11-13<sup>th</sup> February-2013.
9. ‘**Advanced School on Applications of high resolution X-Ray Techniques, Atomic Force Microscopy**’ and their applications held at SN Bose National Centre for Basic Science, Kolkata, 14-15<sup>th</sup> December, 2011.
10. UGC Sponsored one day seminar on “**Chemistry and Energy: Present and future scenario**” held at Osmania University college for women, Koti, Hyderabad, India, March-2011.
11. **20<sup>th</sup> National symposium on catalysis**, IIT Madras, India, 19-21<sup>th</sup> December 2010.
12. ‘**12<sup>th</sup> CRSI National symposium in Chemistry**’ held at IICT, Hyderabad, India, February-2010.
13. ‘**4<sup>th</sup> RSC-CRSI symposium in Chemistry**’ held at National Institute of Pharmaceutical Education and Research(NIPER), Hyderabad, February 4-7<sup>th</sup>, 2010.
14. **Principles and applications of IR, NMR and Mass Spectroscopy** held on 16-17<sup>th</sup> September-2008 at Govt. College for Women, Begumpet, Hyderabad.

#### **Research Experience:**

- Synthesis and characterization of mesoporous materials
- Design and Development of modified mesostructured SBA-15 catalysts for organic transformations in both liquid (Batch mode) and vapour phase (Continuous mode) conditions
- Modification of SBA-15 with organic moieties like –NH<sub>2</sub>, -SH, -SO<sub>3</sub>H, and -COOH by post-grafting and co-condensation methods
- Immobilization of metal nanoparticles (Cu, Ni, Pd, Au and Rh) on organically functionalized SBA-15
- Hydrogenolysis of Glycerol to 1,3-propanediol
- Gas phase hydrocyclization of levulinic acid to  $\gamma$ -valerolactone

#### **Equipment Operation and Handling:**

- GC, GC-MS, XRD (Low & wide angle), FT-IR, BET surface area, chemisorption measurements, TPR/TPD, and interpretation of SEM, TEM, ESCA.
- Catalyst activity tests using fixed-bed micro-catalytic reactors and batch reactors.