

Faculty Profile

Name: Dr MOHAN KUMAR T E

Professor and Head of Chemistry Department

Educational Qualification

MSc.,M.phi.,B.Ed.,PhD

Contact details

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Professional experience

Professor and Head of Department of Chemistry, AIT,Tumakuru from May 2024 till date.

Professor @ RR Institute of Technology ,Bangalore from Sep 2022 to Apr 2024

Professor and Head of Basic Science, Dr smce,Bangalore from 2021 to 2022.

Associate professor from 2008 to 2021 @ HMS Institute of Technology,Tumakuru.

Research experience: 7 Years

List of Publications

1) **Sustainable solar-driven energy products: Chemistry and its Relevance' for the Electric Vehicles and Solar Energy Products Book is accepted. This will be published by Central West Publishing, Australia**

2) Catalytic synthesis of Biodiesel from Millietia Pinnata over Modified forms of Zirconia coated on Honeycomb Monoliths. **T.E. Mohan Kumar**, S Z Mohamed Shamsuddin, Journal of Scientific and Industrial Research, 77, 2018, 104.

3) Simple but efficient synthesis of novel substituted benzimidazoles over ZrO₂-Al₂O₃.

N. Thimmaraju, Mohamed S. Z. Shamsuddin, S. R. Pratap, K. Raja, M. Shyamsundar, **T. E. Mohan kumar**, Synthetic Communications 46 (18) (2016) 1537.

4) Simple and efficient synthesis of jasminaldehyde over modified forms of zirconia.

T E Mohan Kumar, S Z Mohamed Shamsuddin, Indian Journal of Chemical Technology, 54, 2017, 548.

5) Catalytic synthesis of benzimidazoles derivatives over modified forms of zirconia.

T. E. Mohan Kumar, S. Z. Mohamed Shamsuddin, Venkatesh, S. Reena Saritha, Indian Journal of Chemistry, 55A, 2016, 1465.

6) The Kinetics of the transesterification of Simarouba glauca oil for the production of biofuel using zirconia-based catalysts.

S. R. Pratap, S. Z. Mohamed Shamsuddin, **T. E. Mohan Kumar**, Energy Sources, 38(24), 2016, 3625

7) "Synthesis of biodiesel through simultaneous esterification and transesterification route using zeolites". S. R. Pratap, S. Z. Mohamed Shamsuddin, M. Shyamsundar, N. Thimmaraju, Venkatesh, Shyamprasad, **T. E. Mohan Kumar**, V. T. Vasantha, International Journal of Advanced Scientific Research and Publications V1-4 (2015) 67.

8) Synthesis of salicylate esters over cordierite honeycomb monoliths coated with zirconia based solid acids: in vapor phase.

T E Mohan Kumar, S Z Mohamed Shamsuddin, Indian Journal of Chemical Technology, 25(4), 2018, 390.

List of International/National Conferences/Symposia Attended:

I. Poster presentation @ RACS, MGU, Kottayam, Kerala.

II. CSIR 17th National workshop on Challenges in Catalysis science and Technology June 2016 held at Hyderabad.

III. 22nd National Symposium on catalysis at CSIR-Bhavnagar, Gujarat.

IV. NSNMA-2011, 05-03-2011, Madurai, Tamilnadu.

V. National conference on catalysis (Calicut), Kerala.

VI. MHRD Faculty sponsored development programme on catalysis June 2012, NIT Calicut, Kerala.

VII. Workshop on Recent advances in electrochemical and surface science and engineering held at BNMIT, Bangaluru on 26th Aug 2010.

VIII. Successfully completed Mission 10 X Programme in "HIGH IMPACT TEACHING SKILLS" (HITS) conducted by WIPRO exclusively for engineering faculties.

Books authored

1. Customized sorts of Zirconia as Catalysts./Towards various organic transformations.

2. Biomass: A Sustainable Foundation for Bioenergy and Bioremediation - It's Confronts and Scenarios in the COVID-19 Era: A Review Pp: 1-14 (14) DOI: 0.2174/9789815080537123010005 ,Bentham publications.