

Research Career Details

SHORT BIOGRAPHY



Stalin Joseph is originally from Trivandrum, Kerala, India. He did his bachelor's in Chemistry in Mar Ivanios College, Trivandrum. He completed his post-graduation from Vels University, Chennai. Currently he is on verge of completing his PhD in the field of functionalised nanoporous carbon electrodes for supercapacitors under the supervision of Prof. Ajayan Vinu in the University of South Australia.

EDUCATION

- Currently doing PhD in Future Industries Institute, University of South Australia, Australia under the supervision of Prof. Ajayan Vinu.
- Master of Science (M.Sc) in Chemistry (2012) in Vels University, Chennai, Tamil Nadu.
- Bachelor of Science (B.Sc) in Chemistry (2010) in Kerala University, Trivandrum, Kerala.

RESEARCH INTERESTS

- Nanomaterials
- Supercapacitors
- Nanoelectrodes for energy storage applications
- Catalysis

AWARDS

- Organized the ISEAN Symposium 2016, as one of the member in Prof. Ajayan Vinu's Research group.
- Received The Graduate Travel Award of young researchers for scientific discussions on Green Energy conversion, Seminar – International workshop, Yamanashi, Japan, 2014.
- Currently awarded the prestigious University President's Scholarship (UPS) in University of South Australia.
- Awarded UQ International scholarship (UQI) in University of Queensland.
- Awarded UQ summer internship

RESEARCH EXPERIENCES

- During his masters' he joined AIBN, UQ summer internship program in 2012 and successfully completed the project on "synthesis of novel nanoporous carbon nitride using MOF as template".
- During his PhD he was mainly focussing on synthesis of functionalised carbon electrodes from cheap carbon sources like coke, milk and juice for supercapacitor applications.

PUBLICATIONS IN INTERNATIONAL JOURNALS

1. Kumaresa PS Prasad, D.S.D., Stalin Joseph, Chokkalingam Anand, Mohammad A Wahab, Ajayan Mano, CI Sathish, Veerappan V Balasubramanian, T Sivakumar, Ajayan Vinu, *Post-synthetic functionalization of mesoporous carbon electrodes with copper oxide nanoparticles for supercapacitor application*. *Microporous and Mesoporous Materials*, 2013. **172**: p. 77-86.

2. Dhawale, D.S., et al., *Enhanced Supercapacitor Performance of N-Doped Mesoporous Carbons Prepared from a Gelatin Biomolecule*. ChemPhysChem, 2013. **14**(8): p. 1563-1569.
3. Dhawale, D.S., et al., *Cobalt oxide functionalized nanoporous carbon electrodes and their excellent supercapacitive performance*. RSC Advances, 2015. **5**(18): p. 13930-13940.
4. Yoshihiro Sugi, C.A., Vishnu Priya Subramaniam, Joseph Stalin, Jin-Ho Choy, Wang Soo Cha, Ahmed A. Elzatahry, Hiroshi Tamada, Kenichi Komura, Ajayan Vinu, *The isopropylation of naphthalene with propene over H-mordenite: The catalysis at the internal and external acid sites*. JOURNAL OF MOLECULAR CATALYSIS A CHEMICAL, 2014. 395: p. 543-552.