



ARUN VIJAY BASKAR

Education

M.Tech.,2014 Nanoscience &Technology, Anna University (BIT Campus), Tiruchirappalli, India

B.E., 2012 Electronics and Communication Engineering, Jeppiaar Engineering College, Chennai (Anna University), India

Biography

Arun Vijay is originally from Tamilnadu, India where he completed his studies from schooling to post graduate program. While doing his masters in Nanoscience and Technology, he got an opportunity to work on internship program under the supervision of Professor Ajayan Vinu in University of Queensland, Brisbane, Australia where he could start to fulfil his thirst for research interest. Currently he is pursuing his PhD and his thesis title “Design of porous fullerene with organic and inorganic functional group for supercapacitor application” at University of South Australia, Australia under the supervision of Professor Ajayan Vinu.

Research Interest

- Supercapacitor
- Energy Storage
- Mesoporous Fullerene
- Photovoltaic Cells
- Nanoelectronics

Conferences and Workshops

- Attended a 3 months summer research program in “**The University of Queensland**”, Australia
- Attended workshop on “**Mini Colloquium on nanofabrication and technologies**”, Anna University Trichy
- Attended workshop on “**Imaging Techniques**”, Care College, Trichy
- Attended workshop on “**Labview and Electronics**”, National Instruments, Chennai
- Presented a poster in “**Challenges in Biomaterials Research**”, VIT University, Vellore
- Attended a workshop on “**Optoelectronic and Advanced materials**”, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli
- Attended a workshop on “**Photocatalysis for sustainability**”, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli

Current Research Area

Design of porous fullerene with organic and inorganic functional group for supercapacitor application

Expertise in instrumentation

- SEM
- Electrochemical workstation
- PDMS Device fabrication
- Nitrogen Adsorption Analyser
- High pressure Gas adsorption Analyser

Publications

1. Morphological control of mesoporous CN based hybrid materials and their excellent CO₂ adsorption capacity, Kripal S. Lakhi, **Arun V. Baskar**, Javaid S. M. Zaidi, Salem S. Al-Deyab, Mohamed El- Newehy, Jin-Ho Choy and Ajayan Vinu, RSC Adv., 2015, 5, 40183–40192
2. Growth and physico-chemical properties of interconnected carbon nanotubes in FeSBA-15 mesoporous molecular sieves, Ulka Suryavanshi , **Arun V. Baskar** , Veerappan V. Balasubramanian , Salem S. Al-Deyab , Abdullah Al-Enizi , Ajayan Vinu, Arabian Journal of Chemistry (In Press)
3. Quick high-temperature hydrothermal synthesis of mesoporous materials with 3D cubic structure for the adsorption of Lysozyme, Geoffrey Lawrence, **Arun V Baskar**, Mohammed H El-Newehy, Wang Soo Cha, Salem S Al-Deyab and Ajayan Vinu, Sci. Technol. Adv. Mater. 16 (2015) 024806 (11pp)
4. Preparation of highly active triflic acid functionalized SBA-15 catalysts for the synthesis of coumarin under solvent free condition, Pranjali Kalita, **Arun V. Baskar**, Jin-Ho Choy,

Numan Salah, Geoffrey Lawrence, Attieh A. Alghamdi, Veerappan V. Balasubramanian, and Ajayan Vinu. (In Press)