

Dr.K.Gurunathan

Areas of Research/Specialization:

- Hydrogen Energy
- Photocatalysis and Photoelectrochemistry
- Nano (Quantum dots &Core-Shell Solar cells), Flexible (Plastic) Solar cells
- Nanomaterials for Electronics and Power sources

Dr.K.Gurunathan

- Conducting Polymers and their r-GO-MO-Nanocomposites
Professor & Head
- Nano Magnetism (Core-Shell Magnetic materials for MRI)
- Nano Toxicology & Phytochemical synthesis of Nanomaterials



Achievements made in Teaching/Research/Extension

No. of Research Publications	:	70
No. of papers presented in Conferences	:	168
h-index	:	10
i-10 index	:	12
Total Citations	:	966
Patents Granted/Filed	:	1

1. Conducting Polymer/ Transparent Oxide composite for Rechargeable Battery.

Awards and Recognitions

1. Awardee of BOYSCAST Fellowship (DST, New Delhi) for the year 1999-2000. The work was carried out in University of Texas at Austin, Austin, TX, USA during March 2000-March 2001 in Lithium battery, Supercapacitor and cathode materials for Solid oxide fuel cell.
2. Awardee of Brain Pool scientist by Brain Pool program of KOFTS, South Korea, during July 2005-June 2006 in “ Development of Efficient Visible photocatalysts for Hydrogen Generation” The work was carried out in Korea Research Institute of Chemical technology (KRICT), Daejeon, S. Korea.
3. Awardee of First prize for Poster Presentation of our paper presented in two days National seminar on Recent advance in Nanoscience (RANS-2008) held at Sub-Center at Osmanabad of Marathwada University (Feb 23 &24, 2008).
4. Awardee of Best Poster presentation of our paper presented in Ist International conference on Functional materials for Defence -2012 (ICFMD-2012) , organised by DIAT, during May 18-20, 2012, Pune.
5. Awardee of “Rastriya Nirman Rattan” by Economic Growth Society of India, Delhi awarded during the National seminar on “ Individual achievements for Economic & Social Development” on 26th August, 2012 at Delhi.
6. Awardee of “National Health leadership Award” by Health and Education Development Association, Delhi, 2012 for Outstanding Individual achievement & distinguished services to the nation during December 23, 2012.

7. Awardee of “Asia-Pacific Global Award”, Global Achievers Foundation for Individual contribution for International Integration during Indo-Thailand seminar on “ Global Achievers Summit” on 4th January, 2013 in Bankak, Thailand .
8. Listed in Marquis Who’s who in Science and Engineering published by Marquis, USA, 2006-2007 and Who’s Who in the World published by the same on upcoming 2009(26th Edn.)
9. Awardee Institute –RA in CECRI, Karaikudi, (1995-1997).
10. Direct CSIR-SRF from CSIR, India, 1991-1993
11. Awardee of Student Membership from Electronic Division of Electrochemical Soc, Inc, USA, 1991-1994

Research Group Members

- R.Kalyani
- S.Sivasakthi
- A.J.Heiner
- T.M.Amarnath

Past Members

- T.Sadhasivam , South Korea
- A.Rajesh, IGCAR, Kalpakkam ,Chennai
- K.Dhanabalan , Chonnom University, South Korea