

**ACADEMIC DEPARTMENT
FACULTY ACADEMIC PROFILE/CV**

Anupam Karmakar, B. Sc. (Hons.), B. Tech., M. Tech., Ph. D.

Associate Professor

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Specialization: Semiconductor Nano-Science & Nano-Technology, Sensors,
Microwave Systems, Circuits & Devices

Academic qualifications:

- Ph. D. (Engg.) (2004) in Electronics & Telecommunication Engineering, Jadavpur University, Kolkata, India.
- M. Tech. (1990) in Radiophysics and Electronics, University of Calcutta, Kolkata, India.
- B. Tech. (1988) in Radiophysics and Electronics, University of Calcutta, Kolkata, India.
- B. Sc. (Hons. in Physics) (1985), University of Calcutta, Kolkata, India.

Positions held/holding:

- Associate Professor (Aug. 2006 –), Department of Electronic Science, University of Calcutta, India.
- Reader (Aug. 2003 – Jul. 2006), Department of Electronic Science, University of Calcutta, India.
- Senior Lecturer (May 1998 – Jul. 2003), Department of Electronics and Communication Engineering, Kalyani Government Engineering College, West Bengal, India.
- Lecturer (Nov. 1991 – Apr. 1998), Department of Electronics Engineering, National Institute of Technology, Jamshedpur, India.
- Head of the Department of Electronic Science, University of Calcutta (2011 – 13 and 2015 – 17).
- Chairperson, UGBOS (Electronics), University of Calcutta (2015 –).
- Member UGBOS (Electronics), University of Calcutta (2004 – 2015).

Research interests: Semiconductor Nano-Science & Nano-Technology, Sensors

Research guidance:

- Number of researchers awarded Ph. D degree: 03
- Number of researchers pursuing Ph. D: 05

List book/book chapter (if any)

- Jenifar Sultana, Somdatta Paul, Anupam Karmakar, Sanatan Chattopadhyay: Investigating the Growth-Time Dependent Comparative Performance of Vapour-Liquid-Solid (VLS) Grown p-CuO/n-Si Thin Film Hetero-Junction Solar Cells. *Advances in Optical Science and Engineering*, 09/2017: pages 157-164; , ISBN: 978-981-10-3907-2, DOI:10.1007/978-981-10-3908-9_18
- Jenifar Sultana, Somdatta paul, Anupam Karmakar, Sanatan Chattopadhyay: Studying the comparative performance of p-CuO/n-Si thin film hetero-junction solar cells grown by Chemical Bath Deposition and Vapor Liquid Solid processes. *Computational Science and Engineering*, 12/2016: chapter Heterojunction devices and circuits; Taylor and Francis., ISBN: 978-1-138-02983-5
- Jenifar Sultana, Somdatta Paul, Anupam Karmakar, Sanatan Chattopadhyay: Investigating the growth-time dependent comparative performance of Vapor Liquid Solid (VLS) grown p-CuO/n-Si thin film hetero-junction solar cells. *Advances in Optical Science and Engineering*, edited by Indrani Bhattacharya, Satyajit Chakrabarti, Haricharan Singh Rehal, Vasudevan Lakshminarayanan, 1 08/2016: Chapter Green Photonics: Applied Photovoltaics, Application of Solar Energy, Organic Photovoltaics; Springer Singapore, ISBN: 978-981-10-3908-9, DOI:10.1007/978-981-10-3908-9
- Somdatta Paul, Jenifar Sultana, Anupam Karmakar, Sanatan Chattopadhyay, Pintu Singha, Aritra Banerjee: Electrical characterization of n-ZnO/p-CuO thin film hetero-junction solar cell grown by chemical bath deposition and vapor liquid solid technique with varying reaction time. 1 08/2016; , DOI:10.1007/978-981-10-3908-9_19

Extramural research grant:

- Current projects: “Point-of-Care Electronic Diagnosis of Anemic Diseases by Employing Impedimetric Techniques”; Rs.64.55 L (SERB, DST, GoI) (May 2019 –).
- Completed projects: “Device Design and Modeling of Sub-45nm Schottky-Barrier MOSFETs”; Rs.2.35 L (UGC, GoI) (Feb. 2010 – Jan. 2013).

Patents (if any): Nil

List of Honours/Awards: National Scholarship, Ministry of Education and Culture, Govt. of India (1980).

Foreign visit (if any): Nil

Membership in scientific bodies: Life member of ISTE and IACS

Editor/or Editorial Board Member etc.:

Jointly Edited Proceedings of the International Conference on Electronic and Photonic Materials, Devices and System (EPMDS-2006) organized by Dept. of Electronic Science, University of Calcutta, India, Jan. 4-6, 2006 published by University of Calcutta.