



Tanujjal Bora, D. Eng.

Director (Interim)

Center of Excellence in Nanotechnology

Assistant Professor

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Education

- D. Eng. (Nanotechnology), 2012
AIT, Thailand
- M. Eng. (Microelectronics), 2009
AIT, Thailand
- B. Tech. (Elec. & Comm. Eng.), 2006
NERIST, India

Research Expertise

- Nanomaterials
- Semiconductors
- Nanocomposites
- Solar energy harvesting
- Photo-electrochemical devices
- MEMS/NEMS devices
- Thin film coatings
- Optoelectronic sensors

Research Contributions

- Journal Articles: 40
- Citations: 1104
- H-index: 18
- Patents: 01 (Filed), 02 (Pending)
- Book Chapter: 01
- Conferences: 17

Experience

Director (Interim)

May 2019 onwards

Center of Excellence in Nanotechnology, School of Engineering and Technology, Asian Institute of Technology, Thailand

Assistant Professor

May 2019 onwards

Nanotechnology, School of Engineering & Technology, Asian Institute of Technology, Thailand

Faculty (on contract)

January 2017 – April 2019

Nanotechnology, School of Engineering & Technology, Asian Institute of Technology, Thailand

Post-doctoral Fellow

June 2013 – December 2016

Chair in Nanotechnology, Sultan Qaboos University, Oman

Selected Publications

1. T. Bora & J. Dutta; Plasmonic Photocatalyst Design: Metal - Semiconductor Junction Affecting Photocatalytic Efficiency, *Journal of Nanoscience and Nanotechnology* 19 (2019) 383-388
2. B. Al-Ghafri, T. Bora, P. Sathe, S. Dobrestov & M. Al-Abri; Photocatalytic microbial removal and degradation of organic contaminants of water using PES fibers. *Applied Catalysis B: Environmental*, 233 (2018) 136-142.
3. T. Bora, P. Sathe, K. Laxman, S. Dobrestov & J. Dutta; Defect engineered visible light active ZnO nanorods for photocatalytic treatment of water. *Catalysis Today*, 284 (2017) 11-18
4. T. Bora, D. Zoefl & J. Dutta, Importance of plasmonic heating on visible light driven photocatalysis of gold nanoparticle decorated zinc oxide nanorods. *Scientific Reports*, 6 (2016) 26913.
5. T. Bora, H. Fallah, M. Chaudhari, T. Apiwattanadej, S. W. Harun, W. S. Mohammed & J. Dutta, Controlled side coupling of light to cladding mode of ZnO nanorod coated optical fibers and its implications for chemical vapor sensing. *Sensors and Actuators B: Chemical*, 202 (2014) 543 – 550.

*For full list of publications, please visit my [Google Scholar](#) page.

Recent Invited Talks

- Invited speaker in the 3rd ASEAN Conference on Failure Analysis and Inspection of Materials and Products 2018, Thailand Institute of Scientific & Technological Research (TISTR), Ministry of Science & Technology (MoST), Thailand
- Invited speaker in Marine Corrosion – An Important Impact on Structural Integrity Workshop 2018, National Metal and Materials Technology Center (MTEC), Thailand Science Park, Thailand

Awards and Achievements

- The National Research Award 2018 in the category of Best Research Work in *Environment and Biological Resources Sector*, awarded by The Research Council of Oman.
- AIT Distinguished Teaching Award in 2018
- Sheikh Saqr Al Qasimi Graduate Research Fellowship during PhD (2010 – 2012)
- Best AIT Master Thesis Award in 2009
- Infineon Prize for Outstanding Academic Performance in Microelectronics in 2009

Memberships

- Member in IEEE Nanotechnology Council
- Member in IEEE Electron Devices Society
- Member in IEEE Photonics Society