CHANDRANI NATH

DST INSPIRE Faculty

Centre/School/Special Centre: Special Centre for Nanoscience

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Residence:

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Qualifications: Ph.D. (2014, Tezpur University)

Areas of Interest/Specialization: Transport properties of nanostructured conducting polymers; Nanomaterials for thermoelectrics and solid oxide fuel cells (SOFCs).

Experience:

National Post Doctoral Fellow (N-PDF): 2016 -2018 - Indian Institute of Technology, Delhi

DST Inspire Faculty: 2018 – Present – Jawaharlal Nehru University, New Delhi

Awards and Honours:

- INSPIRE Faculty Fellowship (DST), 2018.
- National Post Doctoral Fellowship (DST-SERB), 2016.
- INSPIRE Fellowship for Ph.D. (DST), 2011.

Best Peer Reviewed Publications (upto 5):

1. Chandrani Nath, A. Kumar, Y.-K. Kuo, and G.S. Okram, “High thermoelectric figure of merit in nanocrystalline polyaniline at low temperatures”, Appl. Phys. Lett. 105, 133108 (2014).

2. Chandrani Nath, A. Kumar, K.-Z. Syu and Y.-K. Kuo, “Heat conduction in conducting polyaniline nanofibers”, Appl. Phys. Lett. 103, 121905, (2013).

3. Chandrani Nath and A. Kumar, “Fractal like charge transport in polyaniline nanostructures”, Physica B 426, 94 (2013).

4. Chandrani Nath and A. Kumar, “Effect of temperature and magnetic field on the electrical transport of polyaniline nanofibers”, J. Appl. Phys. 113, 093707 (2013).

5. Chandrani Nath and A. Kumar, “Doping level dependent space charge limited conduction in polyaniline nanoparticles”, J. Appl. Phys. 112, 093704 (2012).