

# LIST OF PUBLICATIONS

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## RESEARCH PUBLICATIONS

(In refereed International Journal)

1. **Rajiv Borah**, Somik Banerjee and Ashok Kumar; Surface functionalization effects on structural, conformational, and optical properties of polyaniline nanofibers, *Synthetic Metals*, 2014, 197, 225-232.
2. **Rajiv Borah**, Ashok Kumar, Manoj K. Das and Anand Ramteke; Surface functionalization induced enhancement in surface properties and biocompatibility of polyaniline nanofibers, *RSC Advances*, 2015, 5(60), 48971-48982.
3. **Rajiv Borah** and Ashok Kumar; Fluorescence enhancement of glutaraldehyde functionalized polyaniline nanofibers in presence of aromatic amino acids, *Materials science and Engineering: C*, 2016, 61, 762-772.
4. Ashok Kumar and **Rajiv Borah**; Effect of plasma irradiation on biocompatibility and cell adhesion of polyaniline/chitosan nanocomposites towards Hep G2 and PBMC cells, *Advanced Materials Proceedings*, 2016, 1(2), 146-155.

## MANUSCRIPT SUBMITTED/UNDER PREPARATION

1. **Rajiv Borah**, Ganesh C. Ingavle, Susan Sandeman, Ashok Kumar and Sergey Mikhailovsky; Electrically Conductive MEH-PPV:PCL Electrospun Nanofibers for Electrical Stimulation of Rat PC12 Pheochromocytoma Cells, *Biomaterials Science*, BM-ART-12-2017-001172. (Revised)
2. **Rajiv Borah**, Ganesh C. Ingavle, Susan Sandeman, Ashok Kumar and Sergey Mikhailovsky; Surface functionalization of electrically conductive core-sheath MEH-PPV:PCL electrospun nanofibers for tissue engineering applications, *ACS Biomaterials Science & Engineering*, ab-2018-00009s. (Revised)
3. **Rajiv Borah**, Ganesh C. Ingavle, Susan Sandeman, Ashok Kumar and Sergey Mikhailovsky; Functionalized Polyaniline/chitosan nanocomposites as a potential Biomimetic Biomaterial, *Materials Today: Proceedings*. (Under Review)

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4. **Rajiv Borah**, Ashok Kumar, Ganesh C. Ingavle, Susan Sandeman and Sergey Mikhailovsky; Polyaniline:Chitosan nanocomposites for enhanced fibroblast adhesion and electrical stimulation of rat PC12 pheochromocytoma cells, *ACS Biomaterials Science & Engineering*. (Communicated)
5. **Rajiv Borah**, M. K. Das, Ashok Kumar and Anand Ramteke; Surface functionalized Polyaniline nanofibers/Chitosan nanocomposite: A multifunctional material for promoting proliferation of human breast adenocarcinoma cells and urease immobilization. (Manuscript Under preparation)
6. **Rajiv Borah**, Ganesh C. Ingavle, Susan Sandeman, Ashok Kumar and Sergey Mikhailovsky; Electrospinning of blended MEH-PPV: PCL nanofibres and their surface functionalization for tissue engineering applications. (Manuscript Under preparation)
7. **Rajiv Borah**, Manoj K. Das, Ashok Kumar, Arup J. Choudhury and Anand Ramteke; Cell adhesion and proliferation on Oxygen, Nitrogen and Argon gas plasma treated Polyaniline nanofibers/Chitosan nanocomposite. (Manuscript Under preparation)

## PAPER PRESENTED IN INTERNATIONAL/NATIONAL CONFERENCE AND SYMPOSIA

1. **Rajiv Borah**, A. Kumar, **Contemporary Physics & The Role of IPR**, II<sup>nd</sup> In-house symposium, Organized by Dept. of Physics, Tezpur University, Assam, India, February 7, 2014.
2. **Rajiv Borah**, Ashok Kumar, M. K. Das, A. Ramteke, **National Seminar on Recent Advances in Biotechnology Research in North-East India**, Organized by Tezpur University, Assam, India, November 27-29, 2014.
3. **Rajiv Borah**, Ashok Kumar, **Condensed Matter Days 2015**, Organized by Visva-Bharati, Santiniketan, West Bengal, India, August 27-29, 2015.
4. **Rajiv Borah**, Ashok Kumar, **TEQIP symposium to Celebrate the 2015 International Year of Light**, Organized by Indian Institute of Technology Guwahati, Assam, India, October 31, 2015.
5. **Rajiv Borah**, Ashok Kumar, M. K. Das, A. Ramteke, **Materials Research Society of India (MRSI) Symposium and 27th Annual General Meeting on**

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- ‘Advanced Materials for Sustainable Applications’, Organized by CSIR-NEIST, Jorhat, February 18-21, 2016.
6. **Rajiv Borah**, Ganesh Ingavle, Susan Sandeman, Sergey Mikhailovsky, Ashok Kumar, **Institute of Physics (IOP) Summer School on nanoScience@Surfaces**, August 1-4, 2016, Cavendish Laboratory, Cambridge University, United Kingdom.
  7. **Rajiv Borah**, Ganesh Ingavle, Susan Sandeman, Sergey Mikhailovsky, Ashok Kumar, **International Conference on Emerging Trends on Nanomaterials Science and Technology (ICETNMST-2017)**, Organized by Department of Science and Humanities, NIT Nagaland, Dimapur, India, January 4-6, 2017.
  8. **Rajiv Borah**, Ganesh Ingavle, Susan Sandeman, Sergey Mikhailovsky, Ashok Kumar, **Second International Conference on Materials Science (ICMS-2017)**, Organized by Department of Physics, Tripura University, Tripura, India, February 16-18, 2017.
  9. **Rajiv Borah**, Ganesh Ingavle, Susan Sandeman, Sergey Mikhailovsky, Ashok Kumar, **UGC-SAP (DRS II) Sponsored National Conference on Hard and Soft Condensed Matter Physics (NCHSCMP-2017)**, Organized by Department of Physics, Tezpur University, Tezpur, Assam, India, March 2-4, 2017.
  10. **Rajiv Borah**, Ganesh Ingavle, Susan Sandeman, Sergey Mikhailovsky, Ashok Kumar, **National Conference on Chemical Physics**, Organized by Department of Physics, Assam University, Silchar, Assam, India, March 20-21, 2017.
  11. **Rajiv Borah**, Ganesh Ingavle, Susan Sandeman, Sergey Mikhailovsky, Ashok Kumar, **Condensed Matter Days 2017**, Organized by Department of Physics, Tezpur University, Tezpur, Assam, India, August 29-31, 2017.