

List of Publications

1. Polyurethane-grafted chitosan as new biomaterials for controlled drug delivery; **Arun Kumar Mahanta**, Vikash Mittal, Nitesh Singh, Debabrata Dash, Sudip Malik, Mohan Kumar, Pralay Maiti; *Macromolecules* **2015, 48, 2654-2666.**
2. A polyurethane-chitosan brush as an injectable hydrogels for controlled drug delivery and tissue engineering; **Arun Kumar Mahanta**, Sudipta Senapati, Pralay Maiti; *Polym. Chem.*, **2017, 8, 6233-6249.**
3. Nanoparticle Induced Controlled Drug Delivery using chitosan based Hydrogel and Scaffold; **Arun Kumar Mahanta** and Pralay Maiti (**Manuscript under preparation**)
4. Engineered Cellular Uptake and Controlled Drug Delivery Using Two Dimensional Nanoparticle and Polymer for Cancer Treatment; Sudipta Senapati, Rashmi Shukla, Yamini B Tripathi, **Arun Kumar Mahanta**, Dipak Rana, Pralay Maiti; *Mol. Pharm.*, **2018, 15, 679-694.**
5. Controlled Drug Delivery Vehicles for Cancer Treatment and Their Performances; Sudipta Senapati, **Arun kumar Mahanta**, Sunil Kumar, Pralay Maiti; *Signal Transduction and Targeted Therapy*(Accepted Manuscript)
6. Cell Proliferation Influenced by Matrix Compliance of Gelatin Grafted Poly(D,L-Lactide) Three Dimensional Scaffolds; Chelladurai Karthikeyan Balavigneswaran, Sanjeev Kumar Mahto, **Arun Kumar Mahanta**, Rajshree Singh, Biswajit Ray, Nira Misra (**Communicated**)

Book Chapter

1. Chitin and chitosan nanocomposites for tissue engineering; **Arun Kumar Mahanta**, Pralay Maiti; *Springer 2016*.
2. Thermal Properties of Food and Biopolymer Using Relaxation Techniques; **Arun Kumar Mahanta**, Dipak Rana, Akhil Kumar Sen, Pralay Maiti; *John Wiley & Sons 2017*.
3. Polyurethane Nanocomposites of Layered Silicates; Dinesh K. Patel, **Arun Kumar Mahanta**, Pralay Maiti; *Elsevier 2018*.

Conference Contributions

1. **Poster presentation** in APA International Conference on Polymer: Vision & Innovations, **APA 2014**, New Delhi, India.
2. **Poster presentation** in International Conference on Polymeric Biomaterials, Bioengineering & Biodiagnostics, **Biomaterials 2014**, New Delhi, India.
3. **Poster presentation** in International Symposium on Polymer Science and Technology, **Macro 2015**, IACS Kolkata, India
4. **Poster presentation** in International Symposium on Polymer Science and Technology, **Macro 2017**, Thiruvananthapuram, Kerala, India.

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