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## *List of Publications*

- **Shukla, Aparna**, Akhand Pratap Singh, Biswajit Ray, Vinod Aswal, Amrita G. Kar, and Pralay Maiti. "Efficacy of polyurethane graft on cyclodextrin to control drug release for tumor treatment." *Journal of colloid and interface science* 534 (2019): 215-227.
- **Shukla, Aparna**, Biswajit Ray, and Pralay Maiti. "Grafted cyclodextrin as carrier for control drug delivery and efficient cell killing." *Journal of Biomedical Materials Research Part A* 107, no. 2 (2019): 434-444.
- **Shukla, Aparna**, Akhand Pratap Singh, Tarkeshwar Dubey, Siva Hemalatha, and Pralay Maiti. "Third Generation Cyclodextrin Graft with Polyurethane Embedded in Hydrogel for a Sustained Drug Release: Complete Shrinkage of Melanoma." *ACS Applied Bio Materials* 2, no. 4 (2019): 1762-1771.
- Biswas, Arpan, **Aparna Shukla**, and Pralay Maiti. "Biomaterials for interfacing cell imaging and drug delivery—An Overview." *Langmuir* (2019)
- Singh, Shikha, Kheyath Mitra, **Aparna Shukla**, Rajshree Singh, Ravi Kumar Gundampati, Nira Misra, Pralay Maiti, and Biswajit Ray. "Brominated graphene as mimetic peroxidase for sulfide ion recognition." *Analytical chemistry* 89, no. 1 (2016): 783-791.
- Jana, Kalyanmoy, Somnath Das, Horst Puschmann, Subhas Chandra Debnath, **Aparna Shukla**, Arun K. Mahanta, Maidul Hossain, Tithi Maity, and Bidhan Chandra Samanta. "Supramolecular self-assembly, DNA interaction, antibacterial and cell viability studies of Cu (II) and Ni (II) complexes derived from NNN donor Schiff base ligand." *Inorganica Chimica Acta* 487 (2019): 128-137.

- Majhi, Koushik, Rijia Khatun, Sourav Jana, Alakananda Hajra, **Aparna Shukla**, Pralay Maiti, Arka Dey, Partha Pratim Ray, and Subrata Sinha. "Synthesis and characterization of host–guest inclusion complex of m-cresol with  $\beta$ -cyclodextrin." *Journal of Inclusion Phenomena and Macrocyclic Chemistry* 90, no. 1-2 (2018): 61-73.

## **Book Chapter**

- Gaur, Anupama, **Aparna Shukla**, Dipti Saxena, and Pralay Maiti. "Polymer Composites for Structural, Device, and Biomedical Applications." *Materials Science and Technology* (2019): 1-34.

## **Patents filed**

- A Novel Polymeric Patch for Treating Melanoma Cancer and A Method Thereof. Pralay Maiti, **Aparna Shukla** and Akhand P. Singh Indian Patent Application No. 201711045345 filed on December 18, 2017.
- Cyclodextrin Grafted Polyurethane Hydrogel for Drug Delivery and a Method of Making the Same **Aparna Shukla**, Akhand P. Singh and Pralay Maiti Indian Patent Application No. 201811035914 filed on September 24, 2018.