

Publications

- [1] **Bhattacharya, A.**; Prajapati, R.; Chatterjee, S.; Mukherjee, T. K. Concentration Dependent Reversible Self-Oligomerization of Serum Albumins through Intermolecular β -Sheet Formation. *Langmuir* **2014**, *30*, 14894-14904.
- [2] Chatterjee, S.; Prajapati, R.; **Bhattacharya, A.**; Mukherjee, T. K. Microscopic Evidence of “Necklace and Bead”-Like Morphology of Polymer-Surfactant Complexes: A Comparative Study on PVP–SDS and PDADMAC–SDS Systems. *Langmuir* **2014**, *30*, 9859-9865.
- [3] **Bhattacharya, A.**; Chatterjee, S.; Prajapati, R.; Mukherjee, T. K. Size-dependent Penetration of Carbon Dots inside the Ferritin Nanocages: Evidence for the Quantum Confinement Effect in Carbon Dots. *Phys. Chem. Chem. Phys.*, **2015**, *17*, 12833-12840.
- [4] Prajapati, R.; Chatterjee, S.; **Bhattacharya, A.**; Mukherjee, T. K. Surfactant-Induced Modulation of Nanometal Surface Energy Transfer from Silicon Quantum Dots to Silver Nanoparticles. *J. Phys. Chem. C*, **2015**, *119*, 13325–13334.
- [5] **Bhattacharya, A.**; Chatterjee, S.; Khorwal, V.; Mukherjee, T. K. Luminescence Turn-on/off Sensing of Biological Iron by Carbon Dots in Transferrin. *Phys. Chem. Chem. Phys.*, **2016**, *18*, 5148-5158.
- [6] Prajapati, R.; **Bhattacharya, A.**; Mukherjee, T. K. Resonant excitation energy transfer from carbon dots to different sized silver Nanoparticles. *Phys. Chem. Chem. Phys.*, **2016**, *18*, 28911-28918.
- [7] **Bhattacharya, A.**; Das, S.; Mukherjee, T. K. Insights into the Thermodynamics of Polymer Nanodot-Human Serum Albumin Association: A Spectroscopic and Calorimetric Approach. *Langmuir*, **2016**, *32*, 12067-12077.
- [8] **Bhattacharya, A.**; Bhowmik, S.; Singh, A.K.; Kodgire, P.; Das, A.; Mukherjee, T.K. Direct Evidence of Intrinsic Blue Fluorescence from Oligomeric Interfaces of Human Serum Albumin, *Langmuir*, **2017**, *33*, 10606-10615.

[9] **Bhattacharya, A;** Mukherjee, T. K. Synergistic enhancement of electron accepting and donating ability of non-conjugated polymer nanodot in micellar environment, *Langmuir*, **2017**, 33, 14718–14727.