

List of publications

In Journals

From thesis

- 1) Iron oxide hydroxide nanoflower assisted removal of arsenic from water, Raul, P.K., Devi, R.R., Umlong, I.M., Thakur, A.J., Banerjee, S., & Veer, V. *Materials Research Bulletin* **49**, 360--368, 2014.
- 2) CuO nanorods: a potential and efficient adsorbent in water purification, Raul, P.K., Senapati, S., Sahoo, A.K., Umlong, I.M., Devi, R.R., Thakur, A.J., & Veer, V. *RSC Advances* **4**, 40580--40587, 2014.
- 3) In water homocoupling of arylboronic acids using nano-rod shaped and reusable copper oxide(II) catalyst at room temperature, Raul, P.K., Mahanta, A., Bora, U., Thakur, A.J. & Veer, V. *Tetrahedron Letters* **56**, 7069--7073, 2015.
- 4) Microwave assisted and *in-situ* generated Pd nanoparticles catalysed synthesis of cross-biphenyl cum desulfurization using aryl sulfonyl chlorides and phenyl boronic acids, Raul, P.K., Mahanta, A., Bora, R.K., Bora, U., Thakur, A.J. & Veer, V. *(Communicated)*
- 5) A highly active nano-copper oxide catalyst for synthesis of aromatic azo compound under mild conditions, Raul, P.K., Mahanta, A., Thakur, A.J. & Veer, V. *(Communicated)*

Other publications not related to thesis

- 1) Arsenic adsorption by Copper Oxide(II) Nanoparticle, Goswami, A., Raul, P.K. & Purkait, M.K., *Chem. Eng. Res. Des.* **90**, 1387--1396, 2012.
- 2) Defluoridation from aqueous solution using stone dust and activated alumina at a fixed ratio, Umlong, I.M., Das, B., Borah, K., Saikia, L.B., Devi, R.R., Raul, P.K., Banerjee, S. & Singh, L. *App. Water Sci.* **2**, 29--36, 2012.
- 3) Defluoridation of water using novel iron oxide hydroxide nanoparticles, Raul, P.K., Devi, R.R., Umlong, I.M., Banerjee, S., Singh, L. & Purkait, M. *J. Nanoscience Nanotech.* **12**, 3922--3930, 2012.
- 4) Defluoridation of drinking water using nano-magnesium oxide, Devi, R.R., Umlong, I.M., Raul, P.K., Banerjee, S., & Singh, L. *J. Exper. Nanosci.* **9**(5), 512--524, 2012.

- 5) Removal of Iron and Arsenic from Drinking Water Using Iron Oxide Coated Sand and Limestone, Devi, R.R., Umlong, I.M., Das, B., Borah, K., Thakur, A.J., Raul, P.K., Banerjee, S., & Singh, L. *App. Water Sci.* **4**, 175--182, 2014.
- 6) Iron-rich drinking water and ascorbic acid supplementation improved hemolytic anemia in experimental Wistar rats, Chaturvedi, R., Chattopadhyay, P., Banerjee, S., Bhattacharjee, C.R., Raul, P., Borah, K., Singh, L. & Veer, V. *Int. J. Food Sci. Nutrition*, **65**(7), 856--861, 2014
- 7) High iron accumulation in hair and nail of people living in iron affected areas of Assam, Chaturvedi, R., Banerjee, S., Chattopadhyay, P., Bhattacharjee, C.R., Raul, P., Borah, K. & Veer, V. *Ecotoxic. Environ. Safety*, **110**, 216--220, 2014.

In conferences

- i. Oral presentation on “Adsorption of Ni(II) to Copper oxide nanoparticles: effect of initial concentration, adsorbent dosage, pH and competing ions”, **Prasanta Kumar Raul**, Rashmi Rekha Devi, Ashim Jyoti Thakur, Saumen Banerjee and Vijay Veer; International conference on nanomaterials held at BS Abdur Rahman University, Chennai from 5th – 7th December, 2013.
- ii. Poster presentation on “Homocoupling of arylboronic acid using nano-copper oxide(II) catalyst at room temperature in water”, **Prasanta Kumar Raul**, Abhijit Mahanta, Utpal Bora, Ashim Jyoti Thakur, Vijay Veer; National Conference on nanomaterials held at Tezpur University, 23rd – 24th November, 2015.