



PAPERS

PUBLISHED

1. S. Kushwaha, S.A. Rao, P.P. Sudhakar. A Fluorescent uranyl ion lidded Cucurbit[5]uril capsule. *Inorg. Chem.* dx.doi.org/10.1021/ic201641g.
2. S. Kushwaha, H. Soni, V. Ageetha and P. Padmaja. An Insight into the Production, Characterisation and Mechanism of Low Cost Adsorbents for removal of Organics from Aqueous Solution. *Critical Reviews in Environmental Science & Technology*. Accepted (in press).
3. Shilpi Kushwaha, Padmaja P. Sudhakar. Adsorption of mercury(II), methyl mercury(II) and phenyl mercury(II) on chitosan cross-linked with a barbital derivative. *Carbohydrate Polymers*, 86(2), 2011, 1055-1062.
4. S. Kushwaha, B. Sreedhar and P. Padmaja. Sorption of Phenyl Mercury, Methyl Mercury and Inorganic Mercury onto Chitosan and Barbital Immobilized Chitosan: Spectroscopic, Potentiometric, Kinetic, Equilibrium and Selective Desorption Studies. *J. Chem. Engg. Data* 2010, 55 (11), 4691-4698.
5. S. Kushwaha, S. Sodaye and P. Padmaja. Adsorption of Hg(II) from aqueous solution onto *Borassus Flabeliffer*: equilibrium and kinetic studies. *Desalination and Water Treatment*, 2009, 12, 100-107.
6. S. Kushwaha, S. Sodaye and P. Padmaja. Equilibrium, Kinetics and Thermodynamic Studies for Adsorption of Hg (II) on Palm Shell Powder. *Proceedings of World Academy of Science, Engineering and Technology*, 2008, Vol.33, 617-623.

Communicated

1. S. Kushwaha, P.P. Sudhakar. Noncovalent Surface Grafting of Covalently Imprinted Uranium Cucurbit[5]uril Oligomer onto Palm Shell Powder: A Novel Approach for Uranyl ion Recognition.

2. S. Kushwaha, B. Sreedhar, P.P. Sudhakar. Adsorption of Hg(II) onto *Borassus Flabellifer*. A Redox Mechanism.
3. S. Kushwaha, G. Sreelatha, Padmaja P. Sudhakar. Physical and Chemical modified forms of *Palm Shell*: Preparation, Characterization and Preliminary Assessment as Adsorbents.
4. S. Kushwaha, P. Padmaja. Estimation of Isotherm, Kinetic Parameters and Mechanism for Sorption of Cd(II) and Zn(II) onto Modified Palm Shell Powder.
5. S. Kushwaha, B. Sreedhar and P. Padmaja. Copper Adsorption onto a Series of Modified Palm Shell Based Adsorbents: a Combined Spectroscopic and Mechanistic Approach.
6. S. Kushwaha, B. Sreedhar and P. Padmaja. Adsorption Mechanism of Cr(VI) on low cost modified adsorbents.
7. S. Kushwaha, B. Sreedhar, P. Padmaja. Unusual adsorption coupled reduction of U(VI) to U(V) and U(IV) on *Borassus Flabellifer* based adsorbents: An X-ray Photoelectron Spectroscopy Study.

ORAL PRESENTATIONS

1. Proceedings of Sixth All Gujarat Research Scholars Meet, January 2010, Department of Chemistry, The Maharaja Sayajirao University of Baroda.
2. Proceedings of World Academy of Science, Engineering and Technology Volume 33, September-2008, held at Heidelberg, Germany, Issn 2070-3740.

POSTER PRESENTATIONS

1. Proceedings of 12th International Symposium on Inorganic Ring Systems, IRIS-12, August-2009 held in Goa, organized by IIT Bombay.
2. Proceedings of International Symposium on Material Chemistry-08,

December-2008 held at BARC, Trombay, Mumbai.

3. Proceedings of SESTEC. March-2008 held at Delhi University, Delhi.
4. Proceedings of International Conference on Advanced Materials- February-2008, held at Mahatma Gandhi School of sciences, Kottayam.
5. Proceedings of Modern Trends in Inorganic Chemistry, December 2007, held at IIT Chennai.

WORKSHOPS AND CONFERENCES ATTENDED

1. Workshop on Advances in Materials, January 2010, held at Department of Material Science, S. P. University, Vallabh Vidyanagar.
2. Workshop on Radiochemistry, January 2010, held at Department of Chemistry, The Maharaja Sayajirao University of Baroda.
3. National Symposium on Emerging Horizons in Catalysis (CATSYMP-2009), September 2009, held at Department of Chemistry, The Maharaja Sayajirao University of Baroda.
4. Seminar on Advances in Chemistry, December 2008, held at Welcome Hotel Vadodara.
5. One day Seminar on X-ray Diffraction Technique, ISAS-Baroda Chapter, February 2008, held at Department of Chemistry, The Maharaja Sayajirao University of Baroda.
6. Workshop on Surfactants: Theory and Practice, October 2007, held at Department of Chemistry, The Maharaja Sayajirao University of Baroda.