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| **Research Publication 2016** |
|
| 1. Barua, VB and Kalamdhad, A.S. Water Hyacinth To Biogas: A Review. Poll. Res. 2016, 35, 63-73. |
| 1. Deka RL, Mahanta C, Nath KK and Dutta MK. Spatio-temporal variability of rainfall regime in the Brahmaputra valley of North East India. Theor, Appl, Climatol. 2016; 124, 3, 793-806 |
| 1. Naik PK, Dehury P, Paul S, Banerjee T. Evaluation of Deep Eutectic Solvent for the selective extraction of toluene and quinoline at T = 308.15 K and p = 1 bar. Fluid Phase Equilibr. 2016; 423,146-155 |
| 1. Kumar VR, Goswami L, Pakshirajan K, Pugazhenthi G. Dairy Wastewater Treatment using a Novel Low Cost Tubular Ceramic Membrane and Membrane Fouling Mechanism using Pore Blocking Models. J. Water Proc. Eng. 2016. |
| 1. Kiran MG, Pakshirajan K, Das G. Heavy metal removal from multicomponent system by sulfate reducing bacteria: Mechanism and cell surface characterization. J. Hazard. Mater. 2016; 324 Part A 62-70, doi:10.1016/j.jhazmat.2015.12.042. |
| 1. Manikandan NA, Alemu AK, Goswami L, Pakshirajan K and Pugazhenthi G. Waste Litchi Peels for Cr(VI) Removal from Synthetic Wastewater in Batch and Continuous Systems: Sorbent Characterization, Regeneration and Reuse Study. J. Environ. Eng. 2016; © ASCE, ISSN 0733-9372. DOI: 10.1061/(ASCE)EE.1943-7870.0001099 |
| 1. Das B, Mandal TK, Patra S. Biodegradation of phenol by a novel diatom BD1IITG-kinetics and biochemical studies. Int.J. Environ. Sc. Technol. 2016; 13 (2), pp. 529-542. |
| 1. Singh S, Dubey VK. Multiwalled carbon nanotube-Superoxide dismutase conjugate towards alleviating induced oxidative stress. Int. J. Pept. Res. Ther. 2016;22: 171-177 |
| 1. Sahariah, BP, Anandkumar J, Chakraborty S. Treatment of coke oven wastewater in an anaerobic–anoxic–aerobic moving bed bioreactor system. Desalination and Water Treatment 2016;57 (31), 14396-14402. |

**Conferences and Seminars**

1. NN. Deshavath, SK. Sahoo, MM. Panda, S. Mahanta, DSN. Goutham, VV. Goud, VV. Dasu, Annapurna Jetty (2016). The cost effective stirred tank reactor for cellulase production from alkaline pretreated agriculture waste biomass. 6th international conference on solid waste management (6th IconSWM 2106), November 24-26, Jadavpur university, Kolkata, India.
2. Barua, V.B. and Kalamdhad, A.S. Effect of microwave pretreatment on the hydrolysis of water hyacinth. National Conference on Recent Advancements in Environmental Research (RAER, 4-5 June 2016) held at IIT Guwahati, India.
3. Barua, V.B. and Kalamdhad, A.S. Effect of hot air oven pretreatment on the hydrolysis of water hyacinth. RECYCLE- International Conference on Waste Management, 1-2 April 2016 held at IIT Guwahati, India.
4. Tanushree Paul and Arun Goyal (2016) "Molecular cloning, expression and purification of a recombinant Glycoside Hydrolase family (GH10) xylanase from *Pedobacter saltans* DSM 12145." National Conference on “*Recent Advancements in Environmental Research 2016*”, 4- IIT Guwahati.
5. Somnath Chanda, G. Das and **M. K. Purkait** (2016) Revelling 3D-structured activated carbon particle by electron microscopy. National workshop on advanced probing techniques in TEM, 15-16 February, 2016, IIT Guwahati. **(Best poster)**
6. Somnath Chanda, G. Das and **M. K. Purkait** (2016) Magnetically responsive carbon based adsorbent for removal of congo red, Recycle-2016: International conference on waste management, 1-2 April, 2016, IIT Guwahati.
7. Somnath Chanda, G. Das and **M. K. Purkait**, (2016) Formulation of herbal cosmeceuticals & neutraceuticals from Assam green tea leaves, IITG-TIC innovation competition, 29th October, 2016, IIT Guwahati.**(1st prize)**

**Book Chapters**

Bhaskar Das, Sanjukta Patra, Antimicrobials: Meeting challenges of antibiotic resistance through nanotechnology. Therapeutic Nanostructures, Elsevier (Accepted for publication).

**ACHIEVEMENTS**

**Ms. Visva Bharati Barua received** ISWA-SWIS full scholarship 2016 to attend winter school at The University of Texas at Arlington, Texas, USA.