

| Sl. No. | Research Publication 2017 |
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| 1. | Visva Bharati Barua, Ajay S. Kalamdhad (December, 2016) Effect of various types of thermal pretreatment techniques on the hydrolysis, compositional analysis and characterization of water hyacinth. <i>Bioresource Technology</i> , 227:147-154. |
| 2. | Narendra Naik Deshavath, Mood Mohan, Venkata Dasu Veeranki, Vaibhav V. Goud, Srinivasa Rao Pinnamaneni, Tamal Benarjee (June, 2017) Dilute acid pretreatment of sorghum biomass to maximize the hemicellulose hydrolysis with minimized levels of fermentative inhibitors for bioethanol production. <i>3 Biotech</i> , 7:139, 1-12. |
| 3. | Visva Bharati Barua, V. Wilson Raju, Sophia Lippold and Ajay S Kalamdhad (August, 2017) Electrohydrolysis pretreatment of water hyacinth for enhanced hydrolysis. <i>Bioresource Technology</i> , 238:733-737. |
| 4. | Mothe Gopi Kiran, Kannan Pakshirajan, Gopal Das (March, 2017) A new application of anaerobic rotating biological contactor reactor for heavy metal removal under sulfate reducing condition. <i>Chemical Engineering Journal</i> , 321: 67-75. |
| 5. | Lalit Goswami, R. Vinoth Kumar, N. Arul Manikandan, Kannan Pakshirajan, G. Pugazhenth (June, 2017) Simultaneous polycyclic aromatic hydrocarbon degradation and lipid accumulation by <i>Rhodococcus opacus</i> for potential biodiesel production. <i>Journal of Water Process Engineering</i> , 17:1-10. |
| 6. | Lalit Goswami, M. M. Tejas Namboodiri, R. Vinoth Kumar, Kannan Pakshirajan, G. Pugazhenth (May, 2017) Biodiesel production potential of oleaginous <i>Rhodococcus opacus</i> grown on biomass gasification wastewater. <i>Renewable Energy</i> , 105: 400-406. |
| 7. | Lalit Goswami, R. Vinoth Kumar, N. Arul Manikandan, Kannan Pakshirajan, G. Pugazhenth (March, 2017) Anthracene biodegradation by Oleaginous <i>Rhodococcus opacus</i> for biodiesel production and its characterization, Polycyclic aromatic Compounds. http://dx.doi.org/10.1080/10406638.2017.1302971 |
| 8. | Lalit Goswami, N. Arul Manikandan, Kannan Pakshirajan, G. Pugazhenth (May, 2017) Simultaneous heavy metal removal and anthracene biodegradation by the oleaginous bacteria <i>Rhodococcus opacus</i> . <i>3 Biotech</i> , 7(1):37, 1-9. |
| 9. | M. Gopi Kiran, Kannan Pakshirajan, Gopal Das (February, 2017) Heavy metal removal from multicomponent system by sulfate reducing bacteria: Mechanism and cell surface characterization, <i>Journal of Hazardous Materials</i> , 324: 62-70. |
| 10. | M. Gopi Kiran, Kannan Pakshirajan, Gopal Das (February, 2017) An overview of sulfidogenic biological reactors for the simultaneous treatment of sulfate and heavy metal rich wastewater. <i>Chemical Engineering Science</i> , 158: 606-620. |
| 11. | Ajeet Singh, Poulami Datta, Lalit M. Pandey (April, 2017) Deciphering the mechanistic insight into the stoichiometric ratio dependent behavior of Cu(II) on BSA fibrillation, <i>International Journal of Biological Macromolecules</i> , 97: 662-670. |
| 12. | Hasnahana Chetia, Debajyoti Kabiraj, Deepika Singh, Ponnala Vimal Mosahari, Suradip Das, Pragya Sharma, Kartik Neog, Swagata Sharma, P. Jayaprakash, Utpal Bora, (February, 2017) De novo transcriptome of the muga silkworm, <i>Antheraea assamensis</i> (Helfer). <i>Gene</i> (Elsevier), 611: 54-65. |

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| 13. | Mood Mohan, Papu Kumar Naik, Tamal Banerjee, Vaibhav V. Goud, Sandip Paul (September, 2017) Solubility of Glucose in Tetrabutylammonium Bromide based Deep Eutectic Solvents: Experimental and Molecular Dynamic Simulations. <i>Fluid Phase Equilibria</i> , 448: 168-177. |
| 14. | Papu Kumar Naik, Sandip Paul, Tamal Banerjee (October, 2017) Liquid Liquid Equilibria measurements for the extraction of poly aromatic nitrogen hydrocarbons with a low cost Deep Eutectic Solvent: Experimental and theoretical insights. <i>Journal of Molecular Liquids</i> , 243: 542-552. |
| 15. | Bibhuti Naik, Papu Kumar Naik, Sanjaya Kumar Pattanayak (August, 2017) Ground water quality assessment using Canadian water quality index around Jurudi mining area, Odisha, India. <i>International Journal of Current Research</i> , 9(08): 55434-55442. |

Conferences:

| Sl No. | Details |
|--------|---|
| 1. | NN Deshavath, VV. Dasu, VV. Goud (2017) "Effect of particle size on lignocellulosic biomass conversion into fermentable sugars for the production of bioethanol". <i>International Conference on Nano for Energy and Water (NEW) & Indo French Workshop on Water Networking</i> , February 22-24, 2017, University of Petroleum and Energy Studies (UPES), Dehradun, India. |
| 2. | Papu Kr. Naik, Mood Mohan, Tamal Banerjee and V.V.Goud (2017) "Experimental and Quantum calculations for the dissolution of cellulose/hemicellulose in ionic liquids". Workshop on introduction to <i>Gaussian: Theory and Practice</i> , January 16-20, Radisson Blue, Hotel Dwarka, New Delhi, India. |
| 3. | Papu Kr. Naik, Sandip Paul and Tamal Banerjee (2017) "Separation of aromatic hydrocarbon from diesel oil using deep eutectic solvent". National conference on <i>Recent Advancements in Environmental Research</i> , 5th June 2017, IIT Guwahati. |
| 4. | Visva Bharati Barua and A.S Kalamdhad (2017) "Optimization of the most efficient thermal pretreatment technique for enhanced biogas production from water hyacinth". <i>Integrated solid waste management practices in developing countries</i> held at NEERI (CSIR), Nagpur, India. April, 2017. |
| 5. | Visva Bharati Barua and A.S Kalamdhad (2017) "Pre-requisite of thermal pretreatment for accelerating hydrolysis and biogas production from water hyacinth". <i>RAER</i> , IITG, 5 th June, 2017. |
| 6. | Kamalesh Verma, Lal Mohan Kundu, Vikash Kumar Dubey (2017) "Characterization of azoreductase enzyme from <i>Chromobacterium violaceum</i> for the removal of effluent dyes". <i>RAER</i> , IITG, 5 th June, 2017. |
| 7. | Barbie Hazarika, Sharad Gokhale, Ram Gopla Uppaluri (2017) "Floor cleaning: Emissions and resulting concentrations of alpha pinene". <i>RAER</i> , IITG 5 th June, 2017. |
| 8. | Mothe Gopi Kiran, Kannan Pakshirajan, Gopal Das (2017) "Continuous heavy metal removal by sodium alginate immobilized sulfate reducing bacteria". <i>RAER</i> , IITG, 5 th June, 2017. |
| 9. | Lalit Goswami, J. Christon Ringle Taube, Kannan Pakshirajan, G. Pugazhenthii (2017) |

