

IMPACTFUL RESEARCH PUBLICATIONS

Title of paper	Name of the author/s	Name of journal	Volume (Issue)	Year of publication	IF (2021)
Extended far-ultraviolet emission in distant dwarf galaxies	Anshuman Borgohain , Kanak Saha, Bruce Elmegreen, Rupjyoti Gogoi , Francoise Combes and Shyam N. Tandon	Nature	607	2022	69.50
Crystal Engineering of Pharmaceutical Cocrystals in the Discovery and Development of Improved Drugs	Geetha Bolla, Bipul Sarma , and Ashwini K. Nangia	Chemical Reviews	122 (13)	2022	72.087
Fractal Web Design of a Hemispherical Photodetector Array with Organic-Dye-Sensitized Graphene Hybrid Composites	Eun Kwang Lee*, Ratul Kumar Baruah* , Jung Woo Leem, Woohyun Park, Bong Hoon Kim, Augustine Urbas, Zahun Ku, Young L. Kim, Muhammad Ashraful Alam, Chi Hwan Lee <i>*Equal Contribution</i>	Advanced Materials	32	2020	32.086
Direct Growth of Wafer-Scale, Transparent, p-Type Reduced-Graphene-Oxide-like Thin Films by Pulsed Laser Deposition	M. M. Juvaaid, Soumya Sarkar, Pranjal Kumar Gogoi , Siddhartha Ghosh, Meenakshi Annamalai, Yung-Chang Lin, Saurav Prakash, Sreetosh Goswami, Changjian Li, Sonu Hooda, Hariom Jani, Mark B. H. Breese, Andriwo Rusydi, Stephen John Pennycook, Kazu Suenaga, M. S. Ramachandra Rao, and Thirumalai Venkatesan	ACS Nano	14 (3)	2020	18.027
Vermiremediation of cotton textile sludge by <i>Eudrilus eugeniae</i>: Insight into metal budgeting. chromium	Sarmistha Paul , Linee Goswami, Ratul Pegu , Satya Sundar Bhattacharya	Bioresource Technology	314	2020	11.889

speciation, and humic substance interactions					
Double network hydrophobic starch based amphoteric hydrogel as an effective adsorbent for both cationic and anionic dyes	Dimpee Sarmah, Niranjana Karak	Carbohydrate Polymers	242	2020	10.273
Controlling and Stabilization of Ru Nanoparticles by Tuning the Nitrogen Content of the Support for Enhanced H₂ Production through Aqueous-Phase Reforming of Glycerol	Pranjal Gogoi, Narsimharao Kanna, Pakiza Begum, Ramesh C. Deka, Satyanarayana C. V. V, and Thirumalaiswamy Raja	ACS Catalysis	10 (4)	2020	13.7
Vitrimers: Associative dynamic covalent adaptive networks in thermoset polymers	Balaji Krishnakumara, R.V.S. Prasanna Sanka, Wolfgang H. Binder, Vijay Parthasarthy, Sravendra Rana, Niranjana Karak	Chemical Engineering Journal	385	2020	16.744
Hyperbranched polyurethane/reduced carbon dot-zinc oxide nanocomposite-mediated solar-assisted photocatalytic degradation of organic contaminant: An approach towards environmental remediation	Rituparna Duarah, Niranjana Karak	Chemical Engineering Journal	370	2019	16.744
Doping Nanoscale Graphene Domains Improves Magnetism in Hexagonal Boron Nitride	Mengmeng Fan, Jingjie Wu, Jiangtan Yuan, Liangzi Deng, Ning Zhong, Liang He, Jiewu Cui, Zixing Wang, Sushant Kumar Behera, Chenhao Zhang, Jiawei Lai, BenMaan I. Jawdat, Robert Vajtai, Pritam Deb, Yang Huang, Jieshu Qian, Jiazhi Yang, James M. Tour, Jun Lou, Ching-Wu Chu, Dongping Sun, Pulickel M. Ajayan	Advanced Materials	31	2019	32.086

Compliant submental skin sensor patch with remote monitoring controls for management of oropharyngeal swallowing disorders	Min Ku Kim, Cagla Kantarcigi, Bongjoong Kim, Ratul Kumar Baruah , Shovan Maity, Yeonsoo Park, Kyunghun Kim, Seungjun Lee, Jaime Bauer Malandraki, Shitij Avlani, Anne Smith, Shreyas Sen, Muhammad A. Alam, Georgia Malandraki, Chi Hwan Lee	Science Advances	5 (12)	2019	14
Pd-Au-Y as Efficient Catalyst for C-C Coupling Reactions, Benzylic C-H Bond Activation, and Oxidation of Ethanol for Synthesis of Cinnamaldehydes	Mukesh Sharma, Biraj Das, Manash J. Baruah, Subir Biswas , Subhasish Roy, Anil Hazarika , Suresh K. Bhargava, and Kusum K. Bania	ACS Catalysis	9 (7)	2019	13.7
Flexible Asymmetric Supercapacitor Based on Functionalized Reduced Graphene Oxide Aerogels with Wide Working Potential Window	Anindita Bora, Kiranjyoti Mohan, Simanta Doley, and Swapan Kumar Dolui	ACS Applied Materials & Interfaces	10 (9)	2018	10.383
Detoxification of chromium-rich tannery industry sludge by <i>Eudrillus eugeniae</i>: Insight on compost quality fortification and microbial enrichment	Linee Goswami, Rupak Mukhopadhyay, Satya Sundar Bhattacharya, Pallabi Das , Rinku Goswami	Bioresource Technology	266	2018	11.889
Vermi-sanitization of toxic silk industry waste employing <i>Eisenia fetida</i> and <i>Eudrilus eugeniae</i>: Substrate compatibility, nutrient enrichment and metal accumulation dynamics	Sarmistha Paul, Subhasish Das , Prasanta Raul, Satya Sundar Bhattacharya	Bioresource Technology	266	2018	11.889

Pyrolysis and kinetic analyses of a perennial grass (<i>Saccharum ravannae</i> L.) from north-east India: Optimization through response surface methodology and product characterization	Ruprekha Saikia, Bhargav Baruah, Dipankar Kalita, Kamal K. Pant, Nirmali Gogoi, Rupam Kataki	Bioresource Technology	253	2018	11.889
Ruthenium(II)-Catalyzed Synthesis of Spirobenzofuranones by a Decarbonylative Annulation Reaction	Partha P. Kaishap, Gauri Duarah, Dr. Bipul Sarma, Prof. Dr. Dipak Chetia, Dr. Sanjib Gogoi	Angewandte Chemie International Edition	57	2018	16.823
Graphene: A Cathode Material of Choice for Aluminum-Ion Batteries	Dr. Shyamal K. Das	Angewandte Chemie International Edition	57	2018	16.823
Synthesis and Trapping of Iminoboranes by M=B/C=N Bond Metathesis	Marco Nutz, Bitupon Borthakur, Dr. Rian D. Dewhurst, Andrea Deißenberg, Dr. Theresa Dellermann, Dr. Marius Schäfer, Dr. Ivo Krummenacher, Prof. Ashwini K. Phukan, Prof. Dr. Holger Braunschweig	Angewandte Chemie International Edition	56	2017	16.823
Encapsulation of active ingredients in polysaccharide-protein complex coacervates	Nirmala Devi, Mandip Sarmah, Bably Khatun, Tarun K. Maji	Advances in Colloid and Interface Science	239	2017	15.19
Surface-Engineered Multifunctional Eu:Gd2O3 Nanoplates for Targeted and pH-Responsive Drug Delivery and Imaging Applications	Arindam Saha, Subas Chandra Mohanta, Kashmiri Deka, Pritam Deb, and Parukuttyamma Sujatha Devi	ACS Applied Materials & Interfaces	9 (4)	2017	10.383

Pd/Cu-Oxide Nanoconjugate at Zeolite-Y Crystallite Crafting the Mesoporous Channels for Selective Oxidation of Benzyl-Alcohols	Mukesh Sharma, Biraj Das, Mitu Sharma, Biplab K. Deka, Young-Bin Park, Suresh K. Bhargava, Kusum K. Bania	ACS Applied & Materials Interfaces	9 (4)	2017	10.383
Emerging role of Geographical Information System (GIS), Life Cycle Assessment (LCA) and spatial LCA (GIS-LCA) in sustainable bioenergy planning	Moonmoon Hiloidhari, D. C. Baruah, Anoop Singh, Sampriti Katak, Kristina Medhi, Shilpi Kumari, T. V. Ramachandra, B. M. Jenkins, Indu Shekhar Thakur	Bioresource Technology	242	2017	11.889
Biosorption of Co (II) from aqueous solution using algal biochar: Kinetics and isotherm studies	Neonjyoti Bordoloi, Ritusmita Goswami, Manish Kumar, Rupam Katak	Bioresource Technology	244, Part 2	2017	11.889
Fabrication of biochars obtained from valorization of biowaste and evaluation of its physicochemical properties	Rumi Narzari, Neonjyoti Bordoloi, Banashree Sarma, Lina Gogoi, Nirmali Gogoi, Bikram Borkotoki, RupamKatak	Bioresource Technology	242	2017	11.889
Effect of torrefaction on yield and quality of pyrolytic products of arecanut husk: An agro-processing wastes	Debajeet Gogoi, Neonjyoti Bordoloi, Ritusmita Goswami, Rumi Narzari, Ruprekha Saikia, Debashis Sut, Lina Gogoi, RupamKatak	Bioresource Technology	242	2017	11.889
Evaluation of folic acid tagged aminated starch/ZnO coated iron oxide nanoparticles as targeted curcumin delivery system	Chinmayee Saikia, Monoj K. Das, Anand Ramteke, Tarun K. Maji	Carbohydrate Polymers	157	2017	10.273
Biodegradable tough waterborne hyperbranched polyester/carbon dot nanocomposite: approach towards an eco-friendly material	Deepshikha Hazarika, Niranjana Karak	Green Chemistry	18	2016	10

Functionalization of MWCNT and their application in properties development of green wood nanocomposite.	Prasanta Baishya, Tarun K.Maji	Carbohydrate Polymers	149	2016	10.273
Effect of dual modification with hydroxypropylation and cross-linking on physicochemical properties of taro starch	Bidyut JyotiHazarika, NandanSit	Carbohydrate Polymers	140	2016	10.273
Isolation and characterization of cellulose nanofibers from culinary banana peel using high-intensity ultrasonication combined with chemical treatment	Prerna Khawas, Sankar C.Deka	Carbohydrate Polymers	136	2016	10.273
High performance bio-based hyperbranched polyurethane/carbon dot-silver nanocomposite: a rapid self-expandable stent	Rituparna Duarah, Yogendra P Singh, Prerak Gupta, Biman B Mandal, Niranjana Karak	Biofabrication	8 (4)	2016	11.061
Excellent N-fixing and P-solubilizing traits in earthworm gut-isolated bacteria: A vermicompost based assessment with vegetable market waste and rice straw feed mixtures	Nazneen Hussain, Archana Singh, Sougata Saha, Mattaparthi Venkata Satish Kumar, Pradip Bhattacharyya, Satya Sundar Bhattacharya	Bioresource Technology	222	2016	11.889
Complete utilization of nonedible oil seeds of Cascabela thevetia through a cascade of approaches for biofuel and by-products	Debashis Sut, Rahul Singh Chutia, Neonjyoti Bordoloi, Rumi Narzari, RupamKataki	Bioresource Technology	213	2016	11.889

