Research Publications (Journal Paper)

Department of Chemical Engineering

2026-27

1. **Lipika Das**, Sibsankar Rahut, "An Aqueous Phase Electro-Reduction of CO2 Over Surface Oxygen Vacancy on Indium Doped SnO2-x (110) and (101) Nanoflake Interfaces", Chemistry Select, September, 2026, 11(35), e74438.

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   ISSN No. - 2365-6549

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2. **Suman Saha**, "Bioleaching-Assisted Palladium (Pd) Recovery from Various Sources and Its Application in Biomedical Purposes: A Mini-Overview", Discover Applied Sciences, September, 2026, 8, 1033.

   Impact Factor: 3.8

   H-index of the Journal: 90

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   ISSN No. : 3004-9261

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   Publisher: Springer Nature**, SCI/Scopus/Web of Science:** All

   Link- https://link.springer.com/article/10.1007/s42452-026-09028-8#citeas

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   Impact Factor: Nil

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   ISSN: 2673-5067

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   Publisher: Frontiers Media **, SCI/Scopus/Web of Science:** Scopus/ No WoS

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1. Gourab Chatterjee, Joyita Dutta, Payel Roy, Milan Hait, Sayantan Pradhan, **Asit Kumar Saha**, Arijit Bag, Gourisankar Roymahapatra, "Repurposing of Nigella Sativa Phytochemicals against Human 3-Phosphoglycerate Dehydrogenase: Docking, Binding-site Analysis and ADMET Profiling", ES Chemistry and Sustainability, September 2025, 4, 1730.

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   Citation: 75

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   Impact Factor: NA

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    Citation:-
    NAAS score: 4.34/2024
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Research Publications (Conference Paper)

Department of Chemical Engineering

2026-27

1. **Radha Das**, Sudip Karmakar, Soumyadwip Hazra, Arkadip Hait. “Agro -Waste Derived Bio-adsorbents For Removal of Carcinogenic Dyes from Industrial Effluents Towards Greener Future” International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
2. **Radha Das**, Somdutta Sarkar, Sneha Patra, Subham Majumder. “Eco-Friendly Extraction of Nano-Silica from Agricultural Residues: A Sustainable Approach” International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
3. Anubhab Chakraborty, Dipannita Mitra, Meghna Roy, Namrata Ghosh, **Radha Das**. “Carbon Capture, Utilizations, and Storage (CCUS): Opportunities, Challenges, and Future Perspectives” International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
4. Aritri Pradhan, Dhara Abheek Ashok, Debdyuti Das, Anupam Bhunia, **Radha Das**. “Valorization of Refinery and Edible Oil Sludge via Hydrothermal Liquefaction (HTL)” International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
5. Ritwika Chatterjee, Aratrika Das, Shourya Bhadra, **Radharani Das**. “Valorization of Agro-Wastes into Sustainable Adsorbents for Removal of Carcinogenic Dyes from Industrial Wastewater” International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
6. **Rabindranath Jana**. “Effects of Nanomaterials in Fire Control” International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
7. Angshudeep Maji, MD Samim Khan, Priyadarshinee Maiti, Subhechha Maity, **Rabindranath Jana**. “Elimination of Micro-Nano Plastics (MNPs) and Environmental

Waste-Water Management" International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7

8. Niladri Biswas, Aakash Kumar Supakar, MD Sajeed Ali, Mir Sajit Hosen, **Rabindranath Jana**. "Industry 5.0 and Digital Transformation for Sustainability: Assessing Marketing Value and Future Trajectories" International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
9. Priyansu Chatterjee, Antariksha Pramanik, Krish Kumar Das, Ratul Dinda, **Rabindra Nath Jana**. "Bioethanol from Agricultural Waste" International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
10. **Siddhartha Sankar Boxi**. "Photocatalytic Degradation of Paracetamol under Visible Light Using Semiconductor Nanomaterials" International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
11. Sankhajit Pati. Somnath Samanta, **Siddhartha Sankar Boxi**. "Role of Green Hydrogen in Achieving Sustainable Energy and Net-Zero Emissions" International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
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13. Shyam Sundar Samanta, Sanju Nayek, Soumyajyoti Mandal, Sk Nasir Alam, **Siddhartha Sankar Boxi**. "Advancing Sustainable Agriculture through Smart Farming" International Conference on Sustainable Technologies, Circular Economy, and Environmental

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18. Goutam Thakur, Oishik Maity, Pralay Mahata, Himadri Das, **Ujjal Ghosh**. "Waste to Wealth: Sustainable Valorization of Fish Processing Residues for Net-Zero Goals" International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
19. Debatri Samanta, Deblina Pradhan, Bhumi Pathak, Rikta Jana, Lipika Das Samanta, **Sutapa Roy**. "Pyrolysis-Based Conversion of Plastic Waste into Liquid Fuel: A Waste-to-Energy Technology" International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7

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23. Atri Sen, Deb Kumar Jana, Archak Bera, **Lipika Das Samanta**, Sutapa Roy. "Transforming CO2 Emissions into Self-Healing Sustainable Cement Production: A review" International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
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26. Subhankar Patra, Subhajit Maity, Suman Mistry, Soubhik Patra, **Keka Rana**. "Precision Fermentation: An Emerging Platform for Sustainable Food Production" International Conference on Sustainable Technologies, Circular Economy, and Environmental

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27. Sanajit Jana, Saikat Khanra, Upendra Pramanik, Sanjib Maity, **Keka Rana**. "Waste Water Treatment of Dairy Industry" International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
28. Amrita Das, Sanket Gayen, Ankita Roychowdhury, Sankhadip Das, **Sonali Samanta**. "A Review of Agricultural Waste-Derived Biochar for Heavy Metal Removal from Contaminated Water" International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
29. Tushar Koley, Tirthankar Jana, Triyan Mandal, **Sonali Samanta**. "A Review on Synthesis of Graphene-based Catalysts for Electrochemical and Photocatalytic Reduction of CO2 to Methanol Production" International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
30. Suraj Manna, Sumanta Mallick, Sukanta Mandal, **Sonali Samanta**. "Microalgal Carbon Capture and Utilization for Sustainable Carbon Management and Circular Bioeconomy" International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
31. Sudip Tunga, Soumyadip Samanta, Udita Manna, Subrata Samai, **Sonali Samanta**. "A Review on Recent Advances in TiO2-Based Photocatalysts for Sustainable CO2 Reduction to Solar Fuels" International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
32. Supratik Quila, Suparna Hazra, Soumyadip Manna, Soumyadip Patra, **Sonali Samanta**. "A Review of Recent progress in Cu-Based Catalysts for Efficient CO2 to Dimethyl Ether Conversation" International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology,

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33. Arnab Dey, Ankit Maji, Ahamjit Dutta, Prakash Sahoo, **Suman Saha**. "Deep-Sea Mining of Critical Metals: Prospects, Environmental Impacts, and Sustainability Challenges" International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
34. Kousani Banerjee, **Aditi Sinha**. "An extensive review on bio-mimetic superhydrophobic nanomaterials in the field of next generation wastewater treatment" International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
35. **Aditi Sinha**, Samrita Bhunia, Somodip Das, Ritesh Das, Sanjib Barma, Biswajit Mandal, Avijit Ghosh. "Waste-Derived Biochar for Sustainable Wastewater Treatment: A Critical Review of Pollutant Removal" International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
36. Madhumita Jana, Krishna Mandal, Manisha Khatun, **Biswajit Mandal**. "Studies on the process of Harvesting Fresh Water from Air for Decentralized Water Supply" International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
37. Saranya Paruya, **Monal Dutta**. "Optimization of Cryogenic Carbon Capture System through Process Simulation" International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
38. Sharmistha Patra, Rishita Parh, **Monal Dutta**, Bitan Pratihar. "Water–Energy–Carbon Nexus in Wastewater Treatment: A Life Cycle Assessment Perspective for Achieving the Sustainable Development Goals: A Potential Review" International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7

39. Rounak Saha, Sayan Sheet, **Monal Dutta**, Bitan Pratihar. “Digital Transformation and Industry 5.0 for Net-Zero and Low-Carbon Industrial Systems” International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
40. Ritobrata Samui, Souvik Mondal, Soumili Samanta, **Monal Dutta**, Bitan Pratihar. “Biotechnology for Sustainable Development: Innovations for a Greener Future” International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
41. Soumyadip Jana, Soumyajit Das, Soumyasubhra Maiti, **Monal Dutta**, Bitan Pratihar. “Sustainable Process Engineering for Resource-Efficient and Low-Carbon Manufacturing” International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
42. Arnab Samanta, Babai Dingal, Swapnashuvam Maity, **Monal Dutta**, Bitan Pratihar. “AI and Digital Technologies for Smart Circular Economy and Resource Recovery Systems” International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
43. Chirashree Nayak, Parinita Santra, Rupanjana Pramanik, Aneswa Samanta, **Monal Dutta**. “Sugarcane Bagasse to Sustainable Aviation Fuel” International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
44. Sibasis Saha, Monal Dutta, **Bitan Pratihar**. “Carbon Capture, Utilization, and Storage: Advancing Decarbonization for a Sustainable Future” International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
45. Shreya Mandal, Rupa Panna, Trishna Das, **Bitan Pratihar**. “Advances in Biogas Production from Organic Waste: Process Optimization and Future Perspectives” International Conference on Sustainable Technologies, Circular Economy, and

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46. Soumya De, Soumya Kundu, Monal Dutta, **Bitan Pratihar**. "Advances in Carbon-Sand Filtration for Domestic Water Treatment" International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
47. Anubhab Pramanik, Kuntal Kundu, Manibrata Maity, Prantik Mandal, Monal Dutta, **Bitan Pratihar**. "Advances in Industrial Wastewater Management for Environmental Sustainability" International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
48. Debojit Dhul, Koushiki Pati, Pratyusha Samanta, Pritam Maity, **Bitan Pratihar**. "Plastic Waste to Fuel: Turning Trash into Energy" International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7
49. Sumit Samanta, Supratik Das, Swarnab Manna, Shubhadip Manna, **Bitan Pratihar**. "Recent Developments in Smart Farming for Sustainable Agricultural Practices" International Conference on Sustainable Technologies, Circular Economy, and Environmental Resilience (ICSTCER-26), Haldia Institute of Technology, Haldia, West Bengal, September 15-16, 2026. ISBN Index of Proceedings: 978-81-978408-0-7

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50. **Siddhartha Sankar Boxi**, "Visible Light-Induced Degradation of Paracetamol with Semiconductor Nanomaterials", International Conference on "Advancement of Green Technology for Sustainable Environment (Green Tech – 25)"organized by School of Chemical Engineering, Food Technology, and Biotechnology, at Haldia Institute of Technology, In association with IQAC, HaldiaHaldia Institute of Technology, Haldia, WB, India, 11-12th September, 2025. **ISBN Index**: 978-81-978408-5-2
51. Sk Sakil Hossain, Sk Samim, **Siddhartha Sankar Boxi**, "Urine to Electricity: A Sustainable Approach Using Microbial Fuel Cells", International Conference on "Advancement of Green Technology for Sustainable Environment (Green Tech –

25)"organized by School of Chemical Engineering, Food Technology, and Biotechnology, at Haldia Institute of Technology, In association with IQAC, HaldiaHaldia Institute of Technology, Haldia, WB, India, 11-12th September, 2025. **ISBN Index**: 978-81-978408-5-2

52. Sk Sahin Rahaman, Sayan Pramanik, **Siddhartha Sankar Boxi**, "Algae to Petroleum – Turning Green Slime into Green Energy", International Conference on "Advancement of Green Technology for Sustainable Environment (Green Tech – 25)"organized by School of Chemical Engineering, Food Technology, and Biotechnology, at Haldia Institute of Technology, In association with IQAC, Haldia, Haldia Institute of Technology, Haldia, WB, India, 11-12th September, 2025. **ISBN Index**: 978-81-978408-5-2
53. Sayan Mahapatra, Soumyadip Manna, Soumyadip Patra, Sayan Das, **Siddhartha Sankar Boxi**, "Waste to Energy (WTE) Conversion: Technological Methods and Global Advancements", International Conference on "Advancement of Green Technology for Sustainable Environment (Green Tech – 25)" organized by School of Chemical Engineering, Food Technology, and Biotechnology, at Haldia Institute of Technology, In association with IQAC, Haldia, Haldia Institute of Technology, Haldia, WB, India, 11-12th September, 2025. **ISBN Index**: 978-81-978408-5-2
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56. Barnali Bej**, Siddhartha Sankar Boxi**, "Nano Silica Based Gravity Filter for Application in River Water Purification: A Short Review", International Conference on "Advancement of Green Technology for Sustainable Environment (Green Tech – 25)"

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75. Abhinav Maiti, Abhik Dey, Manavi Kumari, Kousani Banerjee, **Aditi Sinha** "An extensive study on the hybrid system that integrates smart nanomaterials with renewable energy sources for sustainable wastewater treatment" International Conference on Renewable Energy technologies and Bio-sustainibility (ICRETBS - 2025), Centre for Education Innovation and Entrepreneurship, Kolkata, West Bengal, 22 - 24 March, 2025. **ISSN No. of Proceeding**: 978-93-342-2510-5

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77. Debojit Dhul, **Aditi Sinha** "A literature survey on nanomaterial based filtration system: Revolutionizing wastewater treatment and contaminant removal" International

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2023-24

1. Subhojit Ash, Ritam Saha, Saptak Mandal**, Radharani Das** presented a paper on Synthesis of Silica Nano powder from Agricultural Wastes like Rice Husk and Sugarcane Bagasse and Received Best Paper Award as (Guide) from Student's Chemical Engg Congress , SCHEMCON -23 held at Kongu Engg College Coimbatore , India, during 22nd-23rdSeptember 23.
2. Soumyadip Das, Ritu Thaku, Subrata Dasgupta, **Radharani Das,** presented a paper on "Removal of Hexavalent Chromium from Industrial Wastes Using Sugarcane Bagasse" in Student's Chemical Engg Congress, SCHEMCON -23 held at Kongu Engg College Coimbatore , India, during 22nd-23rdSeptember 23.
3. **Barnali Bej**, Narayan C Pradhan, Swati Neogi, "Dry Reforming of Ethanol Production of Hydrogen Rich Syngas", International Conference on Energy Transition: Challenges and Opportunity (IICHE-CHEMCON 2023) organized by Indian Institute of Chemical Engineers, Heritage Institute of Technology, Kolkata, 27-30 December, 2023. ISBN No. of Proceeding: 9789310000719.
4. **Siddhartha Sankar Boxi**, Wasim Aktar Sha, "Use of Heterogeneous nano-catalyst for the production of Biodiesel from Sewage Sludge", International Conference on Energy Transition: Challenges and Opportunity (IICHE-CHEMCON 2023) organized by Indian Institute of Chemical Engineers, Heritage Institute of Technology, Kolkata, 27-30 December, 2023. ISBN No. of Proceeding: 9789310000719.
5. Ritu Thakur, **Siddhartha Sankar Boxi**. "Use of metal oxide nano catalyst for the photo-degradation of antibiotics in aqueous medium" International Conference on Health, Safety

and Environment (HSE-2023), Institute of Fire and Safety Engineering, Haldia, West Bengal, 23 – 24 December, 2023. ISSN No. of Proceeding: 978-93-100-0256-0.

6. **Siddhartha Sankar Boxi**, Kuntal Choudhury, Soumya Purkayastha. "Extraction of Copper from Electronic Waste (E-waste)" International Conference on Health, Safety and Environment (HSE-2023), Institute of Fire and Safety Engineering, Haldia, West Bengal, 23 – 24 December, 2023. ISSN No. of Proceeding: 978-93-100-0256-0.
7. Tapanjyoti Goswami, **Siddhartha Sankar Boxi**. "Photocatalytic degradation of Paracetamol in aqueous medium in the presence of nano materials" International Conference on Health, Safety and Environment (HSE-2023), Institute of Fire and Safety Engineering, Haldia, West Bengal, 23 – 24 December, 2023. ISSN No. of Proceeding: 978-93-100-0256-0.
8. **Siddhartha Sankar Boxi**, Dwaipayan Roy, Kadrunnisa Khatun, Sayantan Ghosal, **Barnali Bej**, "A Review on Nano Silica Based Gravity Filter for Water Purification", International Conference on Energy Transition: Challenges and Opportunity (IICHE-CHEMCON 2023) organized by Indian Institute of Chemical Engineers, Heritage Institute of Technology, Kolkata, 27-30 December, 2023. ISBN No. of Proceeding: 9789310000719.
9. **Barnali Bej**, Dwaipayan Roy, Kadrunnisa Khatun, **Siddhartha Sankar Boxi**, "River Water Purification Using Indigenous Nano-Silica-Graphene Oxide (Nano-SGO) Based Gravity", International Conference on Energy Transition: Challenges and Opportunity (IICHE-CHEMCON 2023) organized by Indian Institute of Chemical Engineers, Heritage Institute of Technology, Kolkata, 27-30 December, 2023. ISBN No. of Proceeding: 9789310000719.
10. Sayantan Ghosal, Sayantan Maiti, **Barnali Bej**, "A Review on Starch Based Nanocomposites for Bioplastic Materials", International Conference on Health, Safety and Environment (HSE-2023)" organized by Institute of Fire and Safety Engineering, Haldia Brajalalchak Welfare Organization, Haldia, Purba Medinipur,West Bengal, 23-24 December, 2023. ISBN No.: 978-93-100-0256-0.
11. Samyabrata Bhattacharjee, **Sunil Baran Kuila**, **Ankita Mazumder**. "Surfactant modified coconut coir powder (SMCCP) as a low cost adsorbent for the treatment of dye contaminated wastewater: Parameters and adsorption mechanism" International Conference on Energy Transition: Challenges and Opportunities at Chemical Engineering Congress (CHEMCON-2023), Heritage Institute of Technology, Kolkata, West Bengal, 27 - 30 December, 2023. ISBN No. of Proceeding: 9789310000719.
12. Upakatha Jash, Sarnali Roy, **Sonali Samanta**, **Asit Kumar Saha**, presented a paper entitled, "Performance Improvement of a PSA Oxygen Concentrator Using Magnetic Field"

in IIChE-CHEMCON 2023, held at Heritage Institute of Technology, Kolkata, during 27-30 December 2023.

13. **Keka Rana**, Debasish Sarkar, "Performance Characterization of Couette Flow Membrane Module Through Computational Fluid Dynamics", International Conference on Health, Safety and Environment (HSE- 2023), Organized by Institute of Fire and Safety Engineering, Brajalalchak, Haldia, 23-24, December, 2023. Page. 54, ISBN No.: 978-93-100-0256-0.
14. **Keka Rana,** Debasish Sarkar, "Hydrodynamic Study Through Computational FLUID Dynamics of Radial Flow Membrane Module", International Conference on Health, Safety and Environment (HSE- 2023), Organized by Institute of Fire and Safety Engineering, Brajalalchak, Haldia, 23-24, December, 2023. Page. 55, ISBN No.: 978-93-100-0256-0.
15. **Keka Rana**, Souvik Maity, Debasish Sarkar, "Comparative study on hydrodynamic simulation through CFD analysis between Multiple Shaft Disk (MSD) and Intermeshed Spinning Basket Membrane (ISBM) module.", IIChE-Chemcon 2023, 75th Annual Session of Indian Institute of Chemical Engineers, Heritage Institute of Technology, Calcutta Regional Centre, Kolkata, 27-30, December, 2023.ISBN: 9789310 000719.
16. Kalyan Maity, Amitava Bera, Niladri Sekhar Debnath, **Sunil Baran Kuila**, **Tanushree Ghosh, Sutapa Roy,** Chandan Datta "Development of reinforced Polymeric Composite material using thermosetting polymers" (IIChE-CHEMCON 2023), Department of Chemical Engineering, Heritage Institute of Technology, Kolkata during December 27-30, 2023. ISBN: 9789310 000719.
17. Prabal Sahoo, **Sunilbaran Kuila**, Anisha Satpati, **Sutapa Roy**, **Lipika Das Samanta**, **Tanushree Ghosh** "Development of polymeric hydrogels for separation of antibiotics as drug delivery carrier" (IIChE-CHEMCON 2023), Department of Chemical Engineering, Heritage Institute of Technology, Kolkata during December 27-30, 2023. ISBN: 9789310 000719.
18. Sayan Pusti, Subhajit Saha, **Tapas Kumar Manna, Biswajit Mandal, Sutapa Roy, Lipika Das**, "Studies on the Development and Performance of Natural Dye-Sensitized Solar Cell" (IIChE-CHEMCON 2023), Department of Chemical Engineering, Heritage Institute of Technology, Kolkata during December 27-30, 2023. ISBN: 9789310 000719.
19. Swapnadeep Guria, Suvam Dey, **Lipika Das, Sutapa Roy, Biswajit Mandal, Tapas Kumar Manna** "Studies on the Effectiveness of Ethanol - Gasoline Blend as Fuel" (IIChE-CHEMCON 2023), Department of Chemical Engineering, Heritage Institute of Technology, Kolkata during December 27-30, 2023. ISBN: 9789310 000719.

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64. Sovan Dey, Suvajit Mandal, **Keka Rana**, "Hydrodynamic study of Radial flow membrane module through CFD approach", 9th National Conference on Sustainable Trends in Energy and Environmental Resources (STEER), ACE-IIChE SSN Student Chapter, Department of Chemical Engineering, Sri, Sivasubramaniya Nadar College of Engineering, Chennai, 16th-17th March, 2023.
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66. Swarnendu Bhattacharyya, **Keka Rana**, "Hydrogen gas as an alternative source of energy: a Review", 9th National Conference on Sustainable Trends in Energy and Environmental Resources (STEER), ACE-IIChE SSN Student Chapter, Department of Chemical Engineering, Sri, Sivasubramaniya Nadar College of Engineering, Chennai, 16th- 17th March, 2023.

2021-22

1. **Siddhartha Sankar Boxi,** Smriti Mandal, Smritikana Phadikar, Soumen Pal, Suraj Rana, "Precious Metal Recovery from Electronic Waste (E-waste) - A Review", National Conference on Science Technology And Management 2022 (NCSTM-22), Department of Basic Science, NSHM Knowledge Campus, Durgapur-GOI, West Bengal, India and Operational Research Society of India, Durgapur Chapter, 8-9th July, 2022.
2. Krishnendu Dolai, **Siddhartha Sankar Boxi**. "Removal of Toxic Organic Contaminants from Waste Water Using Graphene Oxide (GO)" 1st International Conference on Smart Materials and Applications (SMA-2022), Department of Physics, National Institute of Technology Raipur, 4 - 5 March, 2022.
3. Ankan Mondal, **Siddhartha Sankar Boxi**, "Recovery of Valuable Materials from Electronic Waste (E-waste)", International Conference on Advances in Chemical and

Materials Sciences (ACMS 2022), Heritage Institute of Technology, Kolkata, West Bengal, 14-16 April, 2022.

4. Badhan Basak, **Siddhartha Sankar Boxi**, "Recycling of Waste Plastics for the production of Clean Fuel", International Conference on Advances in Chemical and Materials Sciences (ACMS 2022), Heritage Institute of Technology, Kolkata, West Bengal, 14-16 April, 2022.
5. Khalilur Rahaman Dewan, **Siddhartha Sankar Boxi**, "Production of Biodiesel from Sewage Sludge using Heterogeneous Nano-catalyst", International Conference on Advances in Chemical and Materials Sciences (ACMS 2022), Heritage Institute of Technology, Kolkata, West Bengal, 14-16 April, 2022.
6. Upakatha Jash, **Siddhartha Sankar Boxi**, "Carbon Nanotube (CNT): Synthesis and its Applications", International Conference on Advances in Chemical and Materials Sciences (ACMS 2022), Heritage Institute of Technology, Kolkata, West Bengal, 14-16 April, 2022.
7. Suraj Rana, Smriti Mandal, **Siddhartha Sankar Boxi**, "Production of Biodiesel through Transesterification using Different Feed Stock", National Conference APPSCICON 2022, School of Applied Science & Technology, Maulana Abul Kalam Azad University Maulana Abul Kalam Azad University of Technology, West Bengal of Technology, West Bengal 27-28 May, 2022.
8. Brishti Sengupta, **Siddhartha Sankar Boxi**, **Barnali Bej**, "Recovery of Gold from Electronic Waste (e-waste)" International Conference on Nanotechnology (ICNT 2021), Institute of Fire and Safety Engineering, Brajalalchak, Haldia, 23-24th Dec, 2021.
9. Debosmita Barman, **Barnali Bej, Siddhartha Sankar Boxi,** "Production of Biodiesel from Waste Cooking Oil Using Heterogeneous Catalyst" International Conference on Nanotechnology (ICNT 2021), Institute of Fire and Safety Engineering, Brajalalchak, Haldia, 23-24th Dec, 2021.
10. Sweta Gayen, Rudrashis Biswas, **Barnali Bej**, **Siddhartha Sankar Boxi**, "Synthesis of Graphene oxide and its application for purification of water", National Conference on "Advances in Chemical Engineering and Science (**ACES-2022**)" Department of Chemical Engineering, Indian Institute of Science Education and Research (IISER) Bhopal, Madhya Pradesh, 25-26th March, 2022.
11. Sweta Gayen, **Barnali Bej, Siddhartha Sankar Boxi**. "River Water Purification Using Graphene oxide " National conference APPSCICON – 2022, MAKAUT Main Campus, Haringhata, West Bengal, 27 - 28 May, 2022.

12. Debosmita Barman, Brishti Sengupta, **Barnali Bej, Siddhartha Sankar Boxi**. "Production of Biodiesel from Rubber Seed Oil Using Heterogeneous Catalyst" National conference APPSCICON – 2022, MAKAUT Main Campus, Haringhata, West Bengal, 27 - 28 May, 2022.
13. Sweta Gayen, Rudrashis Biswas, **Barnali Bej, Siddhartha Sankar Boxi**. "Synthesis of Graphene Oxide and Its Application for Purification of Water" National conference on Advances in Chemical Engineering and Science – 2022 (ACES - 2022), IIChE Student's Chapter, IISER Bhopal, 25 - 26 March, 2022.
14. Avirup Das, **Barnali Bej**. "Production of Solar Fuels by Artificial Photosynthesis" National conference on Advances in Chemical Engineering and Science – 2022 (ACES - 2022), IIChE Student's Chapter, IISER Bhopal, 25 - 26 March, 2022.
15. Debshilpi Patra, **Barnali Bej**. "Acetylene Powered Thermal Power Plant Boiler" National conference on Advances in Chemical Engineering and Science – 2022 (ACES - 2022), IIChE Student's Chapter, IISER Bhopal, 25 - 26 March, 2022.
16. Afrin Hossain, Nikita Giri, Anwesha Sinha, Chandan Datta, **Sunil Baran Kuila**, **Sonali Samanta**, **Keka Rana**, "Study on Polymer Matrix Composite for Advanced Application: A Review**",** National Conference on Advances in Chemical Engineering and Science (ACES 2022), Organized jointly by Departments of Chemical Engineering at IISER Bhopal and UEC, Ujjain in association with IIChE-IISER Bhopal Students' Chapter on 25-26 March, 2022.
17. Sarthak Chakraborty, **Keka Rana**, "Waste Water Treatment of Sugar Industry: A review", National Conference on Advances in Chemical Engineering and Science (ACES 2022), Organized jointly by Departments of Chemical Engineering at IISER Bhopal and UEC, Ujjain in association with IIChE-IISER Bhopal Students' Chapter on 25-26 March, 2022.
18. Priya Kumari, **Keka Rana**, "Study on Nanomaterial Application in Waste Water Treatment", National Conference on Advances in Chemical Engineering and Science (ACES 2022), Organized jointly by Departments of Chemical Engineering at IISER Bhopal and UEC, Ujjain in association with IIChE-IISER Bhopal Students' Chapter on 25-26 March, 2022.
19. Afrin Hossain, Nikita Giri, Chandan Datta, **Sunil Baran Kuila, Sonali Samanta**, **Keka Rana**. "Performance Analysis of Polymer Matrix Composite for Advanced Application", An Interdisciplinary National Conference: APPSCICON 2022", School Applied Science and Technology, Makaut Main Campus, Haringhata, WB, India, 27^{th} – 28^{th} May, 2022.

20. Subhrajyoti Das, Kankan Bose, Swagata Adhikarym, Chandan Datta, **Sunil Baran Kuila**, **Keka Rana**, **Sonali Samanta**, "Development of Wood Substitute Polymer Composite by using Bio-waste Material", An Interdisciplinary National Conference: APPSCICON 2022", School Applied Science and Technology, Makaut Main Campus, Haringhata, WB, India, 27^{th} – 28^{th} May, 2022.
21. Swagata Adhikary, Subhrajyoti Das, Kankan Bose, **Keka Rana**, **Sonali Samanta**, "Development of Wood Substitute Composite by using Plant fiber and Waste material: A Review", National conference on Advances in Chemical Engineering and Science (ACES 2022), IISER Bhopal, Students' Chapter IIChE – IISERB and Ujjain Engineering College, 25^{th} – 26^{th} March 2022.
22. Samyabrata Bhattacharjee, Avijit Ghosh, Biswajit Mandal, **Sunil Baran Kuila**. "Adsorptive Separation Of Dye By Filled Polymeric FIPN Hydrogel" International Conference, namely, 'Advances in Chemical and Materials Sciences' (ACMS-2022), IIChE, Kolkata, India, 14-16 April, 2022.
23. Arunima Mondal, Avijit Ghosh, Biswajit Mandal, **Sunil Baran Kuila**. "Studies on adsorptive dehydration of pasteurized milk by filled polymeric IPN hydrogel" International Conference, namely, 'Advances in Chemical and Materials Sciences' (ACMS-2022), IIChE, Kolkata, India, 14-16 April, 2022.
24. Gopal Dey, Ripa Sutar, **Sunil Baran Kuila**. "Biodegradable Polymers from Agro-Waste" National Conference on Advances in Chemical Engineering and Science (ACES-2022), organized jointly by the Departments of Chemical Engineering at IISER Bhopal and UEC, Ujjain in association with IIChE-IISER Bhopal Students' Chapter on 25-26 March 2022.
25. S. Bhowmick, A. Chatterjee, **L. Das Samanta**, presented a paper **titled "**Development of Nanotech detector and its application**….."** in International Conference on Schemcon 2021, during 22-23 October 2021.
26. Ripa Sutar, **Lipika Das Samanta**. "Degradation of methylene blue through photocatalysis using synthesized ZnO/CeO_2 nanocomposite catalyst" International Conference on Advances in Chemical and Material Sciences (ACMS-2022), organized by Indian Institute of Chemical Engineers held at Heritage Institute of Technology, Kolkata, April 14^{th}-16^{th}, 2022.
27. Subhamita Hazra, Rajarshi Ray, **Keka Rana**, Sonali Samanta, "Study of Adsorption Potentiality of Bio-Adsorbents for Removal of Dyes: Review", SCHEMCON-

2021(Virtual mode) annual congress, organized by MANIT and IISER Bhopal on 22nd - 23rd October 2021.

28. Milind Pranay, **Barnali Bej,** "Conversion of Captured Carbon dioxide to Value Added Products " International Conference on Current Trends in Chemical Sciences and Their Industrial Applications (CTCSIA 2021), School of Applied Science & Humanities & IQAC, Haldia Institute of Technology during 29th Oct – 2nd Nov, 2021.
29. Avirup Das, **Barnali Bej**, "Production of Biodiesel Using Waste Vegetable Oil" International Conference on Current Trends in Chemical Sciences and Their Industrial Applications (CTCSIA 2021), School of Applied Science & Humanities & IQAC, Haldia Institute of Technology during 29th Oct – 2nd Nov, 2021.
30. Soumyo Deep Chowdhury, **Barnali Bej**, "Bioplastic - Roadmap for Sustainable development" International Conference on Current Trends in Chemical Sciences and Their Industrial Applications (CTCSIA 2021), School of Applied Science & Humanities & IQAC, Haldia Institute of Technology during 29th Oct – 2nd Nov, 2021.
31. Jaya Kumari, **Barnali Bej**, " Biofuel-An Alternative Source of Energy for Present and Future" International Conference on Current Trends in Chemical Sciences and Their Industrial Applications (CTCSIA 2021), School of Applied Science & Humanities & IQAC, Haldia Institute of Technology during 29th Oct – 2nd Nov, 2021.
32. Prachi Singh, **Barnali Bej,** "Superconductivity in Rhombohedral Tri-layer Graphene" International Conference on Current Trends in Chemical Sciences and Their Industrial Applications (CTCSIA 2021), School of Applied Science & Humanities & IQAC, Haldia Institute of Technology during 29th Oct – 2nd Nov, 2021.
33. Debshilpi Patra, **Barnali Bej**, "Acetylene Powered Thermal Power Plant Boiler" International Conference on Current Trends in Chemical Sciences and Their Industrial Applications (CTCSIA 2021), School of Applied Science & Humanities & IQAC, Haldia Institute of Technology during 29th Oct – 2nd Nov, 2021.(Poster).
35. Mrityunjay Kumar, Oyshee Goswami, Kadrunnisa Khatun, **Sonali Samanta**, **Keka Rana**, "Adsorption of heavy metals from waste water using low cost adsorbents", SCHEMCON-2021(Virtual mode) annual congress, organized by MANIT and IISER Bhopal on 22nd -23rd October 2021.
36. **Aditi Sinha**, **Rabindranath Jana,** "Application of nanocomposite membrane to separate oil/water emulsion: Review", International Conference on nanotechnology ICNT-2021, organised by Institute of Fire and Safety Engineering, Brajalalchak, Haldia, during 23rd- 24th December, 2021.

37. O. Goswami , M. Kumar, **S. Roy**, **L. Das Samanta**, presented a paper titled **"**Nanotechnology in medical fields – Nano Capsules: A Review**"** in International Conference on Nanotechnology 2021 (ICNT 2021), organized by Institute of Fire and Safety Engineering, Haldia Brajalalchak Welfare Organization, Haldia during 23-24th December, 2021.

38. Ripa Sutar, **Sonali Samanta**, **Keka Rana**, "Study on Pharmaceutical Waste Water Treatment", International Conference on Nanotechnology (ICNT 2021), organized by Institute of Fire and Safety Engineering, haldia, Brajalalchak Welfare Organization, Pg. No. 67, on 23rd -24th December, 2021.

39. Riya Manna, **Sonali Samanta**, **Keka Rana**, "Application of nanomaterials for waste water treatment: a Review", International Conference on Nanotechnology (ICNT 2021), organized by Institute of Fire and Safety Engineering, haldia, Brajalalchak Welfare Organization, Pg. No. 64, on 23rd -24th December, 2021.

40. Anisha Satpati, **Keka Rana, "**Nanotechnology in the field of cancer treatment", International Conference on Nanotechnology (ICNT 2021), organized by Institute of Fire and Safety Engineering, haldia, Brajalalchak Welfare Organization, Pg. No. 68, on 23rd -24th December, 2021.

41. Kadrunnisa Khatun, Akash Das, **Sonali Samanta**, **Keka Rana**, "Application of Polymer for Water Purification: a Review", International Conference on Nanotechnology (ICNT 2021), organized by Institute of Fire and Safety Engineering, haldia, Brajalalchak Welfare Organization, Pg. No. 69, on 23rd -24th December, 2021.

42. Partha Kar, **Keka Rana**, "Study on Heavy metals removal from Waste Water: a Review", International Conference on Nanotechnology (ICNT 2021), organized by Institute of Fire and Safety Engineering, haldia, Brajalalchak Welfare Organization, Pg. No. 66, on 23rd -24th December, 2021.

43. Sayak Kundu, Sayantan Ghosh, **Sonali Samanta**, **Keka Rana**, "Dye removal from polluted water through different nano materials", International Conference on Nanotechnology (ICNT 2021), organized by Institute of Fire and Safety Engineering, haldia, Brajalalchak Welfare Organization, Pg. No. 71, on 23rd -24th December, 2021.

44. Shriparna Das, Sananda Das, **Sonali Samanta** and **Keka Rana,** "Application of Nanomaterials for Air Pollution Remediation", International Conference on Nanotechnology (ICNT 2021), organized by Institute of Fire and Safety Engineering, haldia, Brajalalchak Welfare Organization, Pg. No. 62, on 23rd -24th December, 2021.

45. Shreyadhrita Panda, Gopal Dey, **Sutapa Roy**, **Asit Kr Saha**. "Optimization of Turmeric Oil Extraction in an Annular Supercritical Fluid Extractor by Comparing BBD-RSM and CCD-RSM Approaches", International Conference on Advances in Chemical and Material Sciences (ACMS-2022), organized by Indian Institute of Chemical Engineers held at Heritage Institute of Technology, Kolkata, April 14th-16th, 2022.

2020-21

1. **R. Das**, A. De, A. Mukherjee, I. Sinha, "Removal of Chromium (VI) from Aqueous Solution Using Low Cost Bio-Adsorbents : A comparison on performances, Isotherms and Kinetics" presented in the international conference by BRICS NUs: Water Resources and Pollution Treatment WRPT-21organised by NIT Durgapur & IIT Kanpur during 6-9th July 2021.
2. **R. Das**, "Importance of E-learning and Digital Education in Indian New Education Policy (NEP-2020) " in One Day National Seminar on NATIONAL EDUCATION POLICY 2020, 22nd November, 2021, organized by Haldia Institute of Technology, Haldia, West Bengal, India in collaboration with Global Institute of Science and Technology, Haldia, West Bengal, India.
3. S. Panda, S. S. Maity, **S. Roy**, "Effect of Introduction of Annular Geometry inside the Feedstock Shell of Supercritical Fluid Extractor," The Indian Chemical Engineering Congress (CHEMCON-2020), Indian Institute of Chemical Engineers, West Bengal, 27 - 29 December, 2020.
4. Samyabrata Bhattacharjee, **Sunil Baran Kuila**."Selective production of aromatic compound from the waste plastics by catalytic pyrolysis" SCHEMCON -2020, Indian Institute of Chemical Engineers (IICHE), 09-10 October, 2020.
5. Samyabrata Bhattacharjee, **Sunil Baran Kuila**. "Selective production of aromatic compound from the waste plastics by using porous carbonaceous material as catalyst" International Conference on "Recent Trends in Chemical Sciences (RTCS-2020)",The Indian Chemical Society, 26-29 December, 2020.
6. Samyabrata Bhattacharjee, **Sunil Baran Kuila**. "Aromatic compounds production from the waste plastics by using the derived catalyst" CHEMCON -2020, Indian Institute Of Chemical Engineers (IICHE), 27-29 December, 2020.

7. Samyabrata Bhattacharjee, **Sunil Baran Kuila**." Production of aromatic hydrocarbon from the waste plastics" Chem - Spark, Heritage Institute Of Technology And IICHE Students' Chapter HITK, 31st January 2021.
8. Samyabrata Bhattacharjee, **Sunil Baran Kuila**. " Recovery of monomer from waste plastic – case study" National Seminar On "Material Chemistry – Today & Tomorrow" ,The Indian Chemical Society, Kolkata in association with Jadavpur University, 28th February & 1st March, 2021.
9. **A. Sinha**, "Recent Trends in Chemical Sciences", International conference, Indian Chemical Society, 26-29th December, 2020.

2019-20

1. Samyabrata Bhattacharjee, Siddhartha Sankar Boxi. "Production of Clean Fuel from Waste Plastics by Catalytic Pyrolysis" 2nd international Conference on Advances in Bioprocess Engineering and technology (ICABET-2020), Heritage Institute of Technology, Kolkata, India, 20-22 January, 2020.
2. Ankita Kumari, Siddhartha Sankar Boxi. "Graphene and its Applications in Catalysis" International Conference on Nanotechnology (ICNT - 2019), Institute of Fire and Safety Engineering, Haldia, West Bengal, 28 - 29 December, 2019.
3. Samyabrata Bhattacharjee, Siddhartha Sankar Boxi. "Application of Nanomaterials as Antibacterial Agent" International Conference on Nanotechnology (ICNT - 2019), Institute of Fire and Safety Engineering, Haldia, West Bengal, 28 - 29 December, 2019.
4. Arunima Mondal, Siddhartha Sankar Boxi. "Thermal application of Carbon Nanotubes" International Conference on Nanotechnology (ICNT - 2019), Institute of Fire and Safety Engineering, Haldia, West Bengal, 28 - 29 December, 2019.
5. Ankita Kumari, Nirmita Bera, Shreyadhrita Bera, Siddhartha Sankar Boxi. "Use of Nuclear Magnetic Resonance (NMR) Technology in Food Processing." National Workshop on Applications of Nuclear Science in Biochemical Engineering, Agricultural Productivity & Food Safety (ANS 2019), School of Chemical Engineering, Food Technology and Biotechnology, Haldia Institute of technology, Haldia, West Bengal, 30-31 August, 2019.
6. Rabindranath Jana and Aditi Sinha, Effect of different Nanoparticles on Organic Solar Cell's Performance, *5th International Conference on Nanoscience and Nanotechnology (ICONN 2019)*, Dept. of Physics and Nanotechnology, SRM Institute of Science and Technology, Chennai, January 28-30th, 2019.

7. Rabindranath Jana, “Application of Nuclear science in Agricultural Productivity” in ANS - 2019 organized by HIT, Aug, 2019.
8. Arusharka Singha, Dipanjan Das, Subham Jana and Lipika Das, “Study on Green Chemistry and Engineering in Pharmaceutical Industry with A Scope to Treat Non-Biodegradable Wastes From Wastewater”, Schemcon 2019.
9. Pritam Mondal, Soumyadip Bose, Susmita Maity and Lipika Das, “Study on Reuse and Recycle of Solid and Liquid Waste Materials Nuclear Power Plants with A Scope to Reduce Nuclear Waste”, Schemcon 2019.
10. Aditi Sinha, R. Das“ Application of Nuclear Medicine Imaging: A Review” Presented in the National conference on Applications of Nuclear Science in Bio-Chemical Engineering, Agricultural Productivity & Food Safety Organized by School of Chemical Engineering, Biotechnology & Food Technology at Haldia Institute of Technology,during August 30th - 31st 2019 .
11. Kunal Roy, Arghyadeep De, Anupam Mukherjee, Radha Das “An outlook on the development of nuclear science in agricultural sector” Presented in the National conference on Applications of Nuclear Science in Bio-Chemical Engineering, Agricultural Productivity & Food Safety Organized by School of Chemical Engineering, Biotechnology & Food Technology at HIT , Haldia during August 30th - 31st 2019.

2018-19

1. Priya Jana, Siddhartha Sankar Boxi. “Production of Hydrogen by Photocatalytic Water Splitting using Heterogeneous Nanocatalyst.” International Conference on Nanotechnology (ICNT - 2018), Institute of Fire and Safety Engineering, Haldia, West Bengal, 16 - 17 November, 2018.
2. Avinash Kumar, Siddhartha Sankar Boxi. “Metal impregnated TiO_2 nanomaterial for catalysis application.” International Conference on Nanotechnology (ICNT - 2018), Institute of Fire and Safety Engineering, Haldia, West Bengal, 16 - 17 November, 2018.
3. Priya Jana, Siddhartha Sankar Boxi. “Removal of Arsenic from water using Nanomaterials.” International Seminar on Recent Advances in Molecules & Materials (RA2M-2018) Haldia Institute of Technology, Haldia, West Bengal, 2-3 August, 2018.
4. Arghyadeep De, Siddhartha Sankar Boxi. “Thermal Applications of Nanofluids.” International Seminar on Recent Advances in Molecules & Materials (RA2M-2018). Haldia Institute of Technology, Haldia, West Bengal, 2-3 August, 2018.
5. Rabindra Nath Jana, “Banning of plastic use is not an ideal solution ” 12^{th} All India Peoples Technology Congress, Organized by Forum of Scientist, Engineers and

Technologists (FOSET), National Institute of Technical Teachers' Training and research, Kolkata, 16-17 February, 2019.

6. S. Datta, P. Ghosh, L. Das, "Degradation of pharmaceuticals through photocatalysis using Carbonaceous TiO_2 composite", Schemcon 2018.
7. RadhaDas, AnupamMukherje, IshitaSinha, KunalRoy, "RSM Approach for Removal of Malachite Green Dye from Industrial Wastes using Indian Neem leaf Powder (Azadirachtaindica): Isotherms and Kinetics, Presented at 3rd Regional Scence& Technology Congress, Organized by West Bengal State at Sidhu – Kanho- Birsha University , 20-21nd December 2018.
8. Subham Chandra, Tanushree Ghosh, Sunil Baran Kuila "kinetic studies of bio-diesel synthesis from soyabean oil" International Conference on Emerging Trends for Sustainable Development (ICETSD '19).
9. Shakrah Ghazal, Shambhavi, Keka Rana "Application of nanomaterials in waste watertreatment", International seminar on recent advances in molecules and materials (RA2M-2018), Haldia Institute of Technology, 2nd – 3rd August, 2018, Pg. No. 70.
10. Ratnesh Pandey, Keka Rana "Application of nanomaterials in medical sciences", International seminar on recent advances in molecules and materials (RA2M-2018), Haldia Institute of Technology, 2 nd – 3 rd August, 2018, Pg. No. 71.
11. Rohit Barman, Navket Jha, Keka Rana, "Study of Nanotechnology in changing paradigm of sustainable Energy Production" International seminar on recent advances in molecules and materials (RA2M-2018), Haldia Institute of Technology, 2 nd – 3 rd August, 2018, Pg. No. – 71.

2017-18

1. Boxi, S. S.; Paria, S. "Visible Light Induced Photocatalytic Degradation of Methylene Blue Using Silver Doped TiO_2 Nanoparticles." Indian Chemical Engineering Congress, CHEMCON - 2017, Indian Institute of Chemical Engineers & Haldia Institute of Technology, December 27 - 30, 2017.
2. Das, R.; Sinha, I. "Competitive Adsorption of Malachite Green & Methyle Violet Dyes on Indian Neem Leaf Powder: Isotherm & Kinetics." Indian Chemical Engineering Congress, CHEMCON - 2017, Indian Institute of Chemical Engineers & Haldia Institute of Technology, December 27 - 30, 2017.

3. Das, R.; Dhar, D.; Sinha, I. "Synthesis and characterization of SiO_2 Nano Powder from Agricultural Wastes." Indian Chemical Engineering Congress, CHEMCON - 2017, Indian Institute of Chemical Engineers & Haldia Institute of Technology, December 27 - 30, 2017.
4. Jana, R. N.; Sinha, I.; Basu, P. "TiO_2/MWNTs based Artificial Leaf for Energy Harvesting." Indian Chemical Engineering Congress, CHEMCON - 2017, Indian Institute of Chemical Engineers & Haldia Institute of Technology, December 27 - 30, 2017.
5. Samanta, S.; Jana, R. N.; Gupta, P. K. "Synthesis of Silica Nanoparticles from Baggase." Indian Chemical Engineering Congress, CHEMCON - 2017, Indian Institute of Chemical Engineers & Haldia Institute of Technology, December 27 - 30, 2017.
6. Roy, S.; Saha, A. K.; Guha, C. "Studies on Solid-Fluid Supercritical Extraction in modified Extractor Bed." Indian Chemical Engineering Congress, CHEMCON - 2017, Indian Institute of Chemical Engineers & Haldia Institute of Technology, December 27 - 30, 2017.
7. Sinha, A.; Jana, R. N. "Effect of different nanoparticles on organic solar cell performance." Indian Chemical Engineering Congress, CHEMCON - 2017, Indian Institute of Chemical Engineers & Haldia Institute of Technology, December 27 - 30, 2017.
8. Keka Rana, Debasish Sarkar, "Performance Characterization of Intermeshed Spinning Basket Membrane Module in Ultrafiltration Membrane Separation.", *Chemcon 2017, 70th Annual Session of Indian Institute of Chemical Engineers*, Haldia Institute of Technology, Haldia Regional Centre, Haldia, 27-30, December, 2017, Pg. No. 13-14.
9. Barnali Bej, Narayan C. Pradhan and Swati Neogi, "Production of Hydrogen by Steam Reforming of Methanol over Alumina Supported Nano-NiO/SiO_2 Catalyst ", CHEMCON-2017, 70th Annual Session of Indian Institute of Chemical Engineers, 27th - 29th December 2017, Haldia Institute of Technology, Haldia, West Bengal.(presented)
10. Lipika Das, "Applying Nano Crystalline Titania for Removal of Malachite Green by Photocatalysis", CHEMCON-2017, 70th Annual Session of Indian Institute of Chemical Engineers, 27th - 29th December 2017, Haldia Institute of Technology, Haldia, West Bengal.
11. Lipika Das, Koushik Guha Biswas, Uttam Kumar, "Treatment of phenolic effluent by photocatalytic reaction" Page No. 88, International Conference on Advances in Petroleum, Chemical, and Energy Challenges (APCEC), 2017.

2016-17

1.Pradhan S., Rana K., Jana R., " Zinc oxide nano particles for electronic Applications", "International Conference on Recent Trends in Energy Technology, ICRTET 2016, 21-23rd Jan., 2016 , ISBN:978-81-927756-1-6, Pg. No. 27.

2.Roy P., Rana K., Kuila S.B., "Studies on the Recovery of Associated unburned carbon from thermal power plant generated coal fired fly ash by forth floatation", "International Conference on Recent Trends in Energy Technology, , ICRTET 2016, 21-23rd Jan., 2016 , ISBN:978-81-927756-1-6, Pg. no. 43..

3. K. Dutta, M. Z. Khan, Dr. S. B. Kuila, Ms. K. Rana, "Removal of dyes from waste water by low cost adsorbents", *12th Annual Session of* Students Chemical Engineering Congress (SCHEMCON-2016), BVRIT, Hyderabad, 10-11, September, 2016, pg No. 69.

4.. Keka Rana, Amit Ghosh and Debasish Sarkar, "A Study on Performance CHARACTERISTICS of Spinning Basket Membrane Module of Ultra Filtration System", *Chemcon 2016, 69th Annual Session of Indian Institute of Chemical Engineers*, Institute of Chemical Technology, Chennai Regional Centre, Chennai, 27-30, December, 2016, Pg. No. 842.

5. *A. Meshra, P. Kumar[2], K. Ran[3], "*Application Of Nanotechnology In Fuel Cell", *12th Annual Session of* Students Chemical Engineering Congress (SCHEMCON-2016), BVRIT, Hyderabad, 10-11, September, 2016, Pg. No. 96.

6. Lipika Das, Koushik Guha Biswas, Uttam Kumar, "Treatment of phenolic effluent by photocatalytic reaction" Page No. 88, International Conference on Advances in Petroleum, Chemical, and Energy Challenges (APCEC), 2017.
7. Sonali Samanta and Lipika Das, "Parametric study of dewatering of coal sludge by electro-osmosis" Page No. 457, Chemcon 2016.
8. Lipika Das, Koushik Guha Biswas and Abhay Kumar Choubey "Preparation and characterization titania-zirconia nano composite catalyst and application for photo degradation of malachite green", Page No. 1028 , Chemcon 2016.
9. Lipika Das, Koushik Guha Biswas and Tushar Sharma, "Photocatalytic degradation of malachite green using nano titania catalyst" Page No. 984, Chemcon 2016.
10. Sonali Dasgupta and Lipika Das, "Recycling of plastics using sub/supercritical fluids", Page No. 49, Schemcon 2016.