Book/Book chapter Published

Department of Chemical Engineering

2026-27

1. Dr. Biju Sidharthan, Dr. Varun Kumar, Susheel Singh Bhandari, **Aditi Sinha**, "Sustainable Energy Management: A practical Approach", Department of Research and Publications A2Z Edulearning Hub, Sep,2026. ISBN: 978-81-180374-9-1
2. Uma Sankar Behera and **Sourav Poddar**, Introduction to Circular Economy in the Manufacturing Sector, Manufacturing and the Circular Economy, Wiley, September., 2026. ISBN:978-13-94403-40-0.
3. **Suman Saha**, Environmental and Food Safety Biosensors, Springer Nature, Singapore, July, 2026. **ISBN**: 978-981-95-9386-6. Doi: https://doi.org/10.1007/978-981-95-9386-6_11

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2. Shubhrajit Sarkar, **Ankita Mazumder**, "Detection and Mitigation of Microbial Threats Using AI" The Handbook of AI for Clean Water, CRC Press, London, page 394, 2025 [ISBN No. 9781003600718]. DOI: https://doi.org/10.1201/9781003600718
3. **Aditi Sinha**, Avijit Ghosh, **Sunil Baran Kuila,** Lipika Das, and BiswajitMandal"Modified Metal Hydride and Organometallic Composites as a Hydrogen Storage Material for Portable Storage System: A Comprehensive Review" Conference paper, Recent Advances in Energy Transitions Towards Sustainable Development(CHEMCON 2023) in book series Springer, page 495–512, 8th July, 2025. [ISBN No. 978-981-96-3841-3].
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4. Ripa Sutar, Avirup Das, Debshilpi Patra, Mrunmayee Parua, **Biswajit Mandal**, Chandan Datta, Avijit Ghosh & **Sunil Baran Kuila** "Synthesis and Characterization of Noble Biopolymeric Conducting Hydrogels" Conference paper, Recent Advances in Energy

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5. **Keka Rana**, Souvik Maity, and Debasish Sarkar, "Comparative Study on Hydrodynamic Simulation Through CFD Analysis Between Multiple Shaft Disk (MSD) and Intermeshed Spinning Basket Membrane (ISBM) Module", Recent Advances in Energy Transitions Towards Sustainable Development, Springer Proceedings in Materials 67, Singapore, Page 99 – 113, 2025. Print ISBN: 978-981-96-3840-6, Online ISBN978-981-96-3841-3. https://doi.org/10.1007/978-981-96-3841-3_6.
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7. Monal Dutta, AI-Enabled Low-Carbon Strategies for Resilient and Sustainable Urban Ecosystems. Critical Perspectives on Sustainable Futures Society, Culture, And Governance. Samagra Educational Technology Pubication Kota, Raipur, C.G., 2026. 166-174. ISBN: 978-81-986847-8-3.
8. Monal Dutta, Prof. (Dr.) Sunil Baran Kuila, Integrating Safety, Health, and Environmental Management Practices for Chemical Sustainable Process Industry: A Comprehensive Review, Circular Economy in Chemical and Environmental Systems. Bharti Publications, New Delhi, 2026. 67. ISBN: 978-93-47303-34-0.
9. Bitan Pratihar, Monal Dutta, Plastic Waste-derived Membranes for Water Treatment: Current Status and Future Perspectives, Circular Economy in Chemical and Environmental Systems: Bharti Publications, New Delhi, 2026. 78. ISBN: 978-93-47303-34-0.

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1. Soumyadip Das, Ritu Thakur, SubrataDasgupta, Sankalan Das, **BiswajitMandal, Sunil BaranKuila**, A book chapter published on "Replacement of coal by RDF (Refused Derived Fuel)",Lecture Notes on Energy Transition: Challenges & Opportunities, IIChE – CHEMCON-2023, page 327-336, 2024. [ISBN No. 978-93-100-0071-9]. Doi:https://doi.org/10.36375/prepare_u.iiche.a418.

2. RipaSutar, Avirup Das, DebshilpiPatra, MrunmayeeParua, **BiswajitMandal**, ChandanDatta, avijitGhosh, **Sunil BaranKuila**, "Synthesis and Characterization of Noble Bio-Polymeric Conducting Hydrogels" publication as a chapter in "Recent advances in energy transitions towards sustainable development", "Springer Nature" on 8th July, 2025.[ISBN No. 978-981-96-3840-6].
3. **Rabindranath Jana**, published book "Fundamentals of Safety, Health & Environmental Management", White Falcon Publishing House, on 1st January 2025, ISBN: 978-93-481-9911-9 (https://www.amazon.in/dp/9348199110)
4. **Radharani Das**, Arghyadeep De, IshitaSinha, Binay. K. Duttapublished a book chapter on "Adsorptive Removal of Chromium(VI) from Water Solution Using Some Selective Low CostBio-Adsorbents for Sustainable Environment", in "Recent Trend in Water Resources and Pollution Control in BRICS Nations", 12 June 2025, pp 269–282.Springer Nature,Print ISBN-978-981-96-3188-9, https://link.springer.com/chapter/10.1007/978-981-96-3189-6_18.
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2. RipaSutar**, Dr. SomakJyotiSahu, Dr. Lipika Das Samanta**, "Degradation of methylene blue through photocatalysis using synthesized ZnO/CeO_2nanocomposite catalyst" Lecture Notes in Chemical Engineering and Material Sciences, IIChE, Kolkata. [ISBN No: 978-93-5620-063-0]