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## **List of Publications and Conferences**

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## Publications

1. **Umesh Kumar**, Vineeta Gautam, Sanjay D. Patil, Kesheo Prasad, Novel Ganga sand encapsulated polyaniline granules for effective remediation of textile and pharmaceutical wastewater, Indian Chemical Engineer, 19 march 2024, <https://doi.org/10.1080/00194506.2024.2334468>.
2. **Umesh Kumar**, Vineeta Gautam, Kesheo Prasad, Low-cost chemically treated sugarcane bagasse for removal of cationic, anionic, and neutral dyes from aqueous solution, Indian Chemical Engineer, 02 September 2024, <https://doi.org/10.1080/00194506.2024.2389098>.

## Conferences

1. **Umesh Kumar**, Vineeta Gautam, Kesheo Prasad, “Low-cost adsorbents for single and multi- component system: remediation of textile and pharmaceutical wastewater treatment”, Indian Institute of Chemical Engineers, Heritage Institute of Technology, Kolkata, IChE - CHEMCON 2023, December 27-30, 2023.
2. **Umesh Kumar**, Gaurav Kumar, Kesheo Prasad, “New Generation Battery Binder for Cathode Active Materials Lithium and Sodium-ion Battery” in International Conference IChE - CHEMCON 2023, at Indian Institute of Chemical Engineers, Heritage Institute of Technology, Kolkata, held on 27-30<sup>th</sup> Dec, 2023.
3. **Umesh Kumar**, Kesheo Prasad, “Treatment of textile and pharmaceutical wastewater using low-cost adsorbents for single and multicomponent systems”, Sustainable Development in Chemical and Environmental Engineering, 2024, Thapar Institute of Engineering and Technology, Patiala -147004, Punjab, INDIA. 22-24<sup>th</sup> Feb 2024.
4. Vineeta Gautam, **Umesh Kumar**, Kesheo Prasad, “Synthesis and characterization of novel crystalline polyaniline/Kaolin composite”, Sustainable Development in Chemical and Environmental Engineering, 2024, Thapar Institute of Engineering and Technology, Patiala -147004, Punjab, INDIA. 22-24<sup>th</sup> Feb 2024.
5. Vineeta Gautam, **Umesh Kumar**, “Synthesis of nano membranous composite material based on Polyaniline/MWCNTs/Cellulose acetate for selective electrochemical detection of Ascorbic Acid and Catechol” Sustainable Development in Chemical and Environmental Engineering, 2024, Thapar Institute of Engineering and Technology, Patiala -147004, Punjab, INDIA. 22-24<sup>th</sup> Feb 2024.