



Department of Chemical Engineering
K. K. Wagh Institute of Engineering Education and Research
Hirabai Haridas Vidyanagari Amrutdham Panchavati, Nashik-422003

Summary of Research Paper Publications by Faculty

Academic Year	Research Papers
2025-26	8
2024-25	5
2023-24	12
Total	25

Details of Research Paper Publications by Faculty

Sr. No.	Authors	Title of Paper	Journal Name	Publisher	Volume	Publication Month & Year	ISSN/ISBN
1	Piyush Joshi Prashant Kumar Suyog Jain Yennam Rajesh Sandip Derle Zameer Deshmukh Gaurav Daware	Utilization of Water Hyacinth (Eichhornia crassipes) for Bioethanol Production: A Comprehensive Approach from Hydrolysis to Purification	Indian Journal of Chemical Technology	CSIR–NIScPR	32	Nov-25	749-754



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2	Suyog Jain Rajasekhar Ravula Rajesh Yennam Gaurav Daware Neha Gautam Sandip Derle Piyush Joshi	Application of Native Parthenium hysterophorus for Dye Sequestration: Kinetic, Isotherm, and Thermodynamic Analysis	Indian Journal of Chemical Technology	CSIR– NIScPR	33	May-26	485-492
3	Prashant Kumar	Graphene-based Nanomaterials for Wastewater Treatment – A Review on Advances, Optimization, and Future Perspectives	Progress in Engineering Science	Elsevier	Article 100107	Jul-25	2950-4252
4	Rajasekhar Ravula Suyog Jain	Design and Development of Digital Sensors for Monitoring Dyes Concentration	Indian Chemical Engineer	Taylor & Francis	—	Aug-25	0019-4506
5	Rajasekhar Ravula	TD-DFT Guided Advanced E- Eye Sensing Technique for On- site Quantification of Fe, Cr, F, and As in Environmental, Biological, and Food Samples	Journal of Visualized Experiments	JoVE	223	Sep-25	10.3791/68767
6	Neha Gautam Suyog Jain Yennam Rajesh Rajasekhar Ravula	Modeling and Simulation of a Heliostat-Integrated Solar Dome Desalination	Modeling Earth Systems and Environment	Springer Nature	12	Mar-26	2363-6203
7	Yennam Rajesh Suyog Jain Neha Gautam Rajasekhar Ravula	Development of Sustainable Cementitious Composites Using Agricultural Waste and Sea Shells	Indian Journal of Chemical Technology	CSIR– NIScPR	33	May-26	351-357



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8	Gaurav Daware Suyog Jain	Fixed Bed Adsorption of Pyridine from Wastewater Using Low-Cost Adsorbent	Water Practice and Technology	IWA Publishing	—	May-26	-
9	Rajasekhar Ravula Gaurav Daware Yennam Rajesh	Onsite Arsenic Detection with a Low-Cost Portable Microvolume Kit	Indian Journal of Chemical Technology	CSIR–NIScPR	31	Dec-24	0975-0991
10	Suyog Jain Gaurav Daware Neha Gautam	Adsorptive Separation of Acid Red 33 by Groundnut Shell–Based Activated Carbon	Biomass Conversion and Biorefinery	Springer Nature	15	Dec-24	2190-6823
11	Yennam Rajesh	Mordenite's Mineralogical Study and Application as an Efficient Adsorbent for Heavy Metal Detection from Wastewater	Journal of the Indian Chemical Society	Elsevier	102	Jan-25	0019-4522
12	Suyog Jain Yennam Rajesh Priyanka Shivde	Design of Microbial Fuel Cell for Power Generation Using Milk and Lactobacillus Bacteria	Indian Journal of Chemical Technology	CSIR–NIScPR	32	Jan-25	0975-0991
13	Ganesh Dabhade Gaurav Daware Yennam Rajesh	Optical CuAl_2O_4 Used as Photocatalyst for IC Dye Degradation	Water Practice and Technology	IWA Publishing	19	Apr-24	2032-2044
14	Yennam Rajesh	Synthesis of Activated Biochar from Sustainable Bamboo Resources: An Environment-Friendly and Low-Cost Solution for Palladium (II) Removal from Wastewater	Chemosphere	Elsevier	341	Aug-23	1879-1298



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15	Yennam Rajesh Suyog Jain	Synthesis, Characterization and Adsorption Studies on Activated Carbon Synthesized from <i>Kigelia africana</i> for Removal of Acid Blue 113 Dye	Materials Today: Proceedings	Elsevier	111	Nov-23	69-77
16	Neha Gautam Yennam Rajesh	Silica Extraction from Bamboo Leaves Using Alkaline Extraction Method	Materials Today: Proceedings	Elsevier	111	Nov-23	155-160
17	Yennam Rajesh Neha Gautam	Evaluation of Activated Biochar from Sustainable <i>Sterculia foetida</i> Shells for Removal of AB 158 Dye	Journal of Environmental Nanotechnology	Environment Conservation Society	13	Jun-24	248-255
18	Yennam Rajesh Neha Gautam Priyanka Shivde	Agricultural Resources in Focus: Eco-Friendly Bioplastic Synthesis from Corn Starch	Materials Today: Proceedings	Elsevier	111	Nov-23	182-187
19	Yennam Rajesh Priyanka Shivde	ZnAs ₂ O ₄ 's Gas Sensing Performance	Materials Today: Proceedings	Elsevier	111	Nov-23	161-165
20	Rajasekhar Ravula	A Photoresistor-Based Portable Digital Sensor for Rapid Colorimetric Detection of Arsenic	Microchemical Journal	Elsevier	196	Oct-23	109574
21	Sandip Derle Suyog Jain	Caustic Soda Treated Dried Foliage of <i>Arachis hypogaea</i> as a Promising Biosorbent for Chromacyl Blue GG Dye Removal	Biomass Conversion and Biorefinery	Springer Nature	14	Sep-23	2190-6823



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22	Yennam Rajesh Gaurav Daware Sandip Derle Vijay Mawal Priyanka Shivde, Venkat Mane	Synthesis of Handmade Craft Paper from Agricultural Waste	Indian Journal of Chemical Technology	CSIR–NIScPR	31	Jul-24	546-552
23	Prashant Kumar	Microstructure and Corrosion Changes Due to Spray Cooling: How Synthesized Wastewater Affects the Electroless Composite Coating	Arabian Journal for Science and Engineering	Springer Nature	50	May-24	3807-3819
24	Priyanka Shivde Venkat Mane Yennam Rajesh	Experimental Investigation of Thermophysical Characteristics of Hybrid Nanofluid: Application in Heat Transfer Enhancement	Materials Today: Proceedings	Elsevier	111	Jun-24	219-224
25	Gaurav Daware	UV Photodegradation and Oxidation with TiO ₂ for Wastewater of Steel Industry	Journal of Technology	—	12	2023	1012-3407

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