K K Wagh Institute of Engineering Education & Research, Nashik

Department of Chemical Engineering

Faculty Research Publications

Faculties has worked in their core research areas and published papers in reputed publication like Elsevier, Springer etc and presented their work in international conference.
The details are shown in the table year wise

Summary of Paper Publications in Journals/ Conferences

Academic Year	2022-23	2021-22	2020-21	2019-20	2018-19
Papers Published in Journal	06	01	04	08	03
Papers Presented in Conference	08	02	-	-	01

Details of Research papers published by faculties in last three years

Sr. No.	Name of Faculty	Title of paper	Journal Details	Academic Year
1	Dr. Yennam Rajesh Dr. Lakshmana Rao Jeeru Dr. Ganesh Dabhade Dr. Gaurav Daware	Role of cationic surfactants in palladium adsorption of commercial ion exchange resins using electroless plating solutions	AQUA - Water Infrastructure, Ecosystems and Society Available online from April 25th 2023 https://doi.org/10.2166/aqua.2023.104 Impact Factor: 3.007	2022-23
2	Dr. Santhi Raju Pilli, Dr. Wahid Ali, Mohammad Dr. Ehtisham Khan, Dr. Yennam Rajesh, Dr Anwar Ulla Khan, Dr Abdullateef H Bashiri, Waleed Zakri	Novel-supported ionic liquid membranes for an effective removal of pentachlorophenol from wastewater	Journal of Molecular Liquids, 380 (2023) 121629-12639 Impact Factor: 6.633	2022-23
3	Dr S N Jain	A review on recent contributions in the progress of membrane capacitive deionization for desalination and wastewater treatment	International Journal of Environmental Science and Technology (Springer) Published on 30 January 2023	2022-23
4	Dr. G. B. Daware, Dr. Yennam Rajesh, Mr. Umesh Kayande, Miss. Priyanka shinde, Mr. Mayur Kolhe, Prof. P. P. Joshi	Intensified removal of 4-Methylpyridine by ultrasonication in presence of advanced oxidants	Journal of the Indian Chemical Society (Elesvier Volume 100, Article ID: 100810 SCI and SCopus Journal	2022-23
5	Dr. Yennam Rajesh Dr. Lakshmana Rao Jeeru.	"Development of Mathematical Model for Efflux Time in Conical Tank by using Polyethylene Oxideas Drag Reducing Agent"	Modeling Earth Systems and Environment, https://doi.org/10.1007/s40808-022-01518-z SCI and Scopus Journal	2022-23

6	Dr. Gaurav B. Daware Dr. Ganesh B. Dabhade	4-picoline adsorption from aqueous solution by using baggage fly ash (BFA): Parametric, kinetic and thermodynamic aspects	Water Practice & Technology Volume (17) page no 2386–95, Published in Scoups journal	2022-23
7	Dr. G. B. Daware	Intensified sonochemical degradation of 2-Picoline in combination with advanced oxidizing agents	Ultrasonic Sonochemistry, (Elsevier) Volume No: 77, Article ID:105702, doi: https://doi.org/10.1016/j.ultsonch.2021.105702	2021-22
8	Dr. G. B. Daware	Removal of pyridine using ultrasound assisted and conventional batch adsorptionbased on tea waste residue as biosorbent	Environmental Technology & Innovation(Elsevier), Volume No 21, ArticleID:101292, doi: https://doi.org/10.1016/j.eti.2020.101292	2020-21
9	Dr. S. N. Jain	Sesame (*Sesamum indicum*) oil cake—industrial waste biomass for sequestration of Basic Blue 26 from aqueous media	Biomass Conversion and Biorefinery (Springer)Volume No: 77, Page No: 1 Doi: 10.1007/s13399-020-00881-0	2020-21
10	Dr. A. Sumisha	Energy Generation and IronRemoval in Batch and Continuous Single-Chamber Microbial Fuel Cells	Chemical Engineering & Technology VolumeNo. 44, Page No: 258-264 Doi: https://doi.org/10.1002/ceat.202000144	2020-21
11	Dr. A. Sumisha	A Study on Polythiophene Modified Carbon Cloth as Anode in Microbial Fuel Cell for Lead Removal	Arabian journal for science and technology Volume No: 46, Page No: 6695-6701 doi: http://dx.doi.org/10.1007/s13369-021-05402-3	2020-21
12	Dr. Suyog N. Jain,	Batch and continuous studies for adsorption of anionic dye	Journal of Cleaner Production (Elsevier) Volume :252 Article ID: 119778 Doi:	2019-20

		onto waste tea residue: Kinetic, equilibrium, breakthrough and reusability studies	https://doi.org/10.1016/j.jclepro.2019.119778	
13	Dr. A. Sumisha	Energy generation in single chamber microbial fuel cell from pure and mixed culture bacteria by copper reduction	Arabian Journal for Science and Engineering: vol. 45, Page No 7719–7724, Doi: http://doi.org/10.1007/s13369-020-04832-9	2019-20
14	Dr. A. Sumisha	Nanostructured Polypyrrole as Cathode Catalyst for Fe (III) Removal in Single Chamber Microbial Fuel Cell	Biotechnology and Bioprocess Engineering (springer) vol. 42, Page No 6709–6714, Doi: https://doi.org/10.1007/s12257-019-0288-y	2019-20
15	Dr. A. Sumisha	Simultaneous power generation and Congo red dye degradation in double chamber microbial fuel cell using spent carbon electrodes, Energy Sources	Part A: Recovery, Utilization, and Environmental Effects (Springer) vol. 25, Page No: 78-85, Doi: https://doi.org/10.1080/15567036.2020.1781978	2019-20
16	Prof. G. B. Daware	Sonochemical degradation of 3-methylpyridine (3MP) intensified using combination with various oxidants.	Ultrasonic Sonochemistry (Elsevier), Volume No; 67 Article ID:105120, Doi: https://doi.org/10.1016/j.ultsonch.2020.105120	2019-20
17	Dr. S. N. Jain Prof. V. N. Mawal	Kinetic,equilibrium, thermodynamic, and desorption studies for sequestration of acid dye using waste biomass as sustainable adsorbents	Biomass Conversion and Biorefinery (Springer), Published on 22 May 2020, Doi: https://doi.org/10.1007/s13399-020-00780-4	2019-20
18	Prof. G. B. Daware	Adsorption of 3-Aminopyridine (3AP) from aqueous solution using sugarcane bagasse activated carbon (SBAC)	Environmental Technology & Innovation, (Elsevier), Volume No: 19 Article ID:100921.doi: http://dx.doi.org/10.1016/j.eti.2020.100921	2019-20
19	Dr. S. N. Jain	Vegetable residue of fenugreek (Trigonella Foenum-Graecum), waste biomass for removal of Basic Violet 14 from wastewater: Kinetic, equilibrium, and reusability studies (Elsevier)	Sustainable Chemistry and Pharmacy, Volume :16 Article ID 16 (100269), Doi: https://doi.org/10.1016/j.scp.2020.100269	2019-20
20	Prof. Dr. S. N. Jain	Treatment of dye containing real industrial effluents using NaOH activated Ficusracemosa and Prunus dulcis based novel adsorbents'	International Journal of Environmental Research (Springer) Volume: 13,Page No 337-347. Doi: http://dx.doi.org/10.1007/s41742-019-00179-8	2018-19

21	Prof. Dr. S. N. Jain Dr. V. S. Mane and Prof. V. N. Mawal	Nonlinear Regression Approach for Acid Dye Remediation Using Activated Adsorbent: Kinetic, Isotherm, Thermodynamic and Reusability Studies.	Microchemical Journal (Elsevier), Volume :148 page no.605-615. Doi: https://doi.org/10.1016/j.microc.2019.05.024	2018-19
22	Dr. S. N. Jain	Adsorptive removal of Azo dye in a continuous column operation using biosorbent based on NaOH and surfactant activation of Prunus Dulcis leaves	Desalination and Water Treatment(Desalination), Volume: 10, Page No. 331-341. Doi: http://dx.doi.org/10.5004/dwt.2019.23479	2018-19

Details of Paper Presented in International /National Conference:

Sr. No	Name of Faculty	Title of paper	Event	Organizer	Date
1.	Dr. Yennam Rajesh	Synthesis and Characterization of Low- Cost Wood based Biosorbent (Oral presentation).	International Symposium on Materials of the Millennium: Emerging Trends and Future Prospects (MMETFP-2021)	Pandit Deendayal Energy University, Gujarat, Gandhinagar, India	November 19-21, 2021
2.	Dr Yennam Rajeh, Hetansha Boricha, Aishwarya Suryawanshi	Synthesis of Activated Carbon using Kigelia africana and application towards wastewater treatment	National Conference "Advances in Chemical Engineering and Science (ACES-2023)"	March 31 - April 01, 2023, at IISER Bhopal	March 31 - April 01, 2023
3.	Dr Yennam Rajeh, Pachal Saloni, Deore Vaidhehi	Synthesis of Bioplastic from Agricultural sources	National Conference "Advances in Chemical Engineering and Science (ACES-2023)"	March 31 - April 01, 2023, at IISER Bhopal	March 31 - April 01, 2023
4.	Himani Chadudhari, Shradha Pansare, Dr Yennam Rajeh, Dr Neha Gautam	Silica Extraction from Bamboo Leaves using Alkaline Extraction Method	National Conference "Advances in Chemical Engineering and Science (ACES-2023)"	March 31 - April 01, 2023, at IISER Bhopal	March 31 - April 01, 2023
5.	Dr Yennam Rajeh. Himani Chadudhari, Shradha Pansare	Synthesis of handmade paper from rice husk	International Conference (Pranathi-2k23), BVRIT Educational Society, Hyderabad, Best Paper and First Prize with Rs.1000	16.02.23 to 17.02.23 BVRIT Educational Society, Hyderabad, Telangana State	16.02.23 to 17.02.23
6.	Dr Yennam Rajeh. Hetansha Boricha, Aishwarya Suryawanshi	Dye Adsorption of Activated Adsorbent from Plant Waste	International Conference (Pranathi-2k23), BVRIT Educational	16.02.23 to 17.02.23 BVRIT Educational	16.02.23 to 17.02.23

			Society, Hyderabad	Society, Hyderabad, Telangana State	
7.	Dr Yennam Rajeh. Kalyani Thorat, Suyog Jadhav	Synthesis of carbon dots from CD waste for the application towards drug delivery	International Conference (Pranathi-2k23), BVRIT Educational Society, Hyderabad	16.02.23 to 17.02.23 BVRIT Educational Society, Hyderabad, Telangana State	16.02.23 to 17.02.23
8.	Dr Yennam Rajeh. Jay Sonawane, Vinod Suralkar	The usage of Drag Reduction Agent (Polyethylene Glycol) in Cylindrical Tank	International Conference (Pranathi-2k23), BVRIT Educational Society, Hyderabad	16.02.23 to 17.02.23 BVRIT Educational Society, Hyderabad, Telangana State	16.02.23 to 17.02.23
9.	Dr Yennam Rajeh. Rushikesh Gunjal, Avinash Pawar	Oil-in-Water Emulsions by Using Natural Emulsifiers-Soyabean Oil	International Conference (Pranathi-2k23), BVRIT Educational Society, Hyderabad	16.02.23 to 17.02.23 BVRIT Educational Society, Hyderabad, Telangana State	16.02.23 to 17.02.23
10.	Dr. Yennam Rajesh	Synthesis and Characterization of Low- Cost Wood based Biosorbent (Oral presentation).	International Symposium on Materials of the Millennium: Emerging Trends and Future Prospects (MMETFP-2021)	Pandit Deendayal Energy University, Gujarat, Gandhinagar, India	November 19-21, 2021
11.	Dr. Yennam Rajesh	Drag reduction by addition of polymer in conical Tank(Poster presentation).	International Symposium on Materials of the Millennium: Emerging Trends and Future Prospects (MMETFP-2021)	Pandit Deendayal Energy University, Gujarat, Gandhinagar, India	November 19-21, 2021
12.	Prof. S. S. Shinde Prof. G. B. Daware	A review: Extraction and characterization of Neem oil from Neem seeds by using modern extraction techniques	International conference on “Manufacturing of Excellence (ICMAX-2019)	K. K. Wagh Institute of Engineering Education and Research, Nashik	February 15, 2019

Faculty as Reviewer of Journals of repute:

Faculties worked as reviewer for various international journals

Sr. No.	Name of Faculty	Name of Journal
1.	Dr. V. S. Mane	• Industrial and Engineering Chemistry, (Elsevier Publication) • Journal of Materials Research and Technology, (Elsevier Publication) • Toxicological & Environmental Chemistry, (Taylor and Francis group) • Journal of Molecular Liquids,(Elsevier Publication) • The Korean Journal of Chemical Engineering,(Elsevier Publication) • Wood Chemistry and Technology, (Taylor and Francis group) • Surfactants and Detergents, Springer
2.	Dr. S. N. Jain	• Cleaner Production (Elsevier), • Chemosphere (Elsevier) • Inorganic Chemistry Communications (Elsevier) • Process Safety and Environmental Protection (Elsevier) • Chemical Engineering and Processing: Process Intensification (Elsevier) • Ultrasonic Sonochemistry (Elsevier) • Environmental Chemistry and Ecotoxicology (Elsevier) • Desalination and Water Treatment (Desalination) • Biomass Conversion and Biorefinery (Springer) • SN Applied Sciences (Springer) • International Journal of Industrial Chemistry (Springer)
3.	Dr. G. B. Daware	• Desalination and Water Treatment (Desalination).
4.	Dr. Sumisha A	• Materials: Today Proceedings (Elsevier) and Springer Nature (Springer)
5.	Dr. Yennam Rajesh	• International Journal of Biological Macromolecules (Elsevier) • International Journal of Cheminfornatics and Chemical Engineering (Elsevier) • Journal of Water Process Engineering (Elsevier) • Desalination and Water Treatment (Taylor and Francis group) • Separation Science and Technology (Taylor and Francis group)

Citation Details of Faculty:

Sr. No.	Name of Faculty	No. of citations in Web of Science	No. of citations in Google Scholar	No. of citations in Scopus
1.	Dr. V. S. Mane	125	1424	1033
2.	Dr. S. N. Jain	277	388	290
3.	Prof. V. N. Mawal	79	35	23
4.	Dr. G. B. Daware	29	38	34
5.	Dr. A Sumisha	124	160	124
6.	Dr. Yennam Rajesh	32	38	15