

**Number of research papers per teacher in the Journals as notified on UGC website during the last five years****Chemical Engineering**

S. No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the record/enlistment of
							Link to website of the Journal
1	Enhancement of fungal cellulase production using pretreated orange peel waste and its application in improved bioconversion of rice husk under the influence of nickel cobaltite nanoparticles	Srivastava N., Mohammad A., Pal D.B., Srivastava M., Alshahrani M.Y., Ahmad I., Singh R., Mishra P.K., Yoon T., Gupta V.K.	Chemical Engineering	Biomass Conversion and Biorefinery	2022	21906815	<a href="https://doi.org/10.1007/s13399-022-03070-3">10.1007/s13399-022-03070-3</a>

2	Waste biomass valorisation of Bambusa vulgaris dust and Delonix regia pods: Characterization and kinetic study	Tiwari A.K., Prasad N., Jana S.K., Srivastava N., Alshahrani M.Y., Ahmad I., Mishra P.K., Pal D.B.	Chemical Engineering	Sustainable Energy Technologies and Assessments	2022	22131388	<a href="https://doi.org/10.1016/j.seta.2022.102590">10.1016/j.seta.2022.102590</a>
3	Solubility of Gases in Choline Chloride-Based Deep Eutectic Solvents from Molecular Dynamics Simulation	Kumar K., Keshri S., Bharti A., Kumar S., Mogurampelly S.	Chemical Engineering	Industrial and Engineering Chemistry Research	2022	8885885	<a href="https://doi.org/10.1021/acs.iecr.1c04923">10.1021/acs.iecr.1c04923</a>
4	Recent advancement in sisal fiber reinforced polymer composites	Kriti Sharma, GL Devnani	Chemical Engineering	Materials Today: Proceedings	2022	2214-7853	<a href="https://www.sciencedirect.com/journal/materials-today-proceedings">https://www.sciencedirect.com/journal/materials-today-proceedings</a>

5	Modeling of sugarcane bagasse conversion to levulinic acid using response surface methodology (RSM), artificial neural networks (ANN), and fuzzy inference system (FIS): A comparative evaluation	M. Ogedjo, A. Kapoor et al.	Chemical Engineering	Fuel	2022	0016-2361	<a href="https://www.sciencedirect.com/journal/fuel">https://www.sciencedirect.com/journal/fuel</a>
6	Biomass Valorization of Eichhornia Crassipes Root using Thermogravimetric Analysis	D B Pal, A K Tiwari, N Srivastava, I Ahmad, M Abohashrh and V K Gupta,	Chemical Engineering	Environmental Research	2022	1096-0953	<a href="https://www.sciencedirect.com/journal/environmental-research">https://www.sciencedirect.com/journal/environmental-research</a>
7	Enhanced Production of Biogas and Fabrication of CuO/Cu <sub>2</sub> O based nanocatalyst using Application of Pressmud waste	N Srivastav, R Singh, R Srivastava, M Srivastava, DB Pal, VK Gupta	Chemical Engineering	Bioresource Technology	2022	0960-8524	<a href="https://www.journals.elsevier.com/bioresourcetech">https://www.journals.elsevier.com/bioresourcetech</a>
8	Thermophilic Biohydrogen Production from Agro industrial waste: Current Update, Challenges, and Sustainable solutions	D B Pal, S Haque, R Singh, H Faidah, S S. Ashgar, M Y. Areeshi, A H. Almalki, N Srivastava and VK Gupta	Chemical Engineering	Chemosphere	2022	0045-6535	<a href="https://www.sciencedirect.com/journal/chemosphere">https://www.sciencedirect.com/journal/chemosphere</a>
9	Box-Behnken design for melanoidin removal via Cu-impregnated activated carbon prepared from waste leaves biomass	Subhi Rizvi · Anju Singh · Sanjiv Kumar Gupta	Chemical Engineering	Applied Water Science	2022	2190-5495	<a href="https://www.springer.com/journal/13201">https://www.springer.com/journal/13201</a>

10	Enhancement of low-temperature impact toughness of polycarbonate by hydroxyl terminated siloxanes and its concomitant effects on other properties	S. K. Gupta & J. N. Srivastava	Chemical Engineering	Bulgarian Chemical Communications	2022	
11	Thermal kinetics and morphological investigation of alkaline treated rice husk biomass	Manish Choudhary, Sandesh Kumar Jain, <b>G.L. Devnani</b> , Shri Ram S., Sonawane, Dhananjay Singh	Chemical Engineering	Journal of the Indian Chemical Society	2022	<a href="https://doi.org/10.1016/j.jics.2022.100444">https://doi.org/10.1016/j.jics.2022.100444</a>
12	Electro-oxidation of tannery wastewater to achieve zero discharge – a step towards sustainability	Sundarapandiyan Sundaramoorthy, Narendra Singh, Christon Ringle Taube, <b>Rajesh Katiyar</b> , Vimudha Muralidharan and Saravanan Palanivel	Chemical Engineering	<a href="#">Environmental Technology</a>	2022	10.1080/09593330.2022.2049887

13	Effects of Additives and Treatment on Fly Ash-Based Polymer Composites	Patel S., Devnani G.L., Singh D.	Chemical Engineering	Lecture Notes in Mechanical Engineering	2022	<a href="#">21954356</a>	10.1007/978-981-16-8341-1_12
14	Review on extraction, characterization, surface treatment and thermal degradation analysis of new cellulosic fibers as sustainable reinforcement in polymer composites	Deeksha Jaiswal, G.L. Devnani, G. Rajeshkumar, M.R. Sanjay, Suchart Siengchin,	Chemical Engineering	Current Research in Green and Sustainable Chemistry	2022	<a href="https://doi.org/10.1016/j.crgsc.2022.100271">https://doi.org/10.1016/j.crgsc.2022.100271</a>	
15	Influence of Siloxanes Viscosity and Concentration on Low Temperature Impact Modification and Melt Flow Behaviour of Polycarbonate	S. K. Gupta & J. N. Srivastava	Chemical Engineering	Journal of Applied Polymer Science	2022	<a href="https://doi.org/10.1002/app.51876">doi.org/10.1002/app.51876</a>	

16	<b>Bio-synthesis of iron nanoparticles for environmental remediation: Status till date</b>	Pattanayak D.S., Pal D., Thakur C., Kumar S., Devnani G.L.	Chemical Engineering	Materials Today: Proceedings	2021	22147853	10.1016/j.matpr.2021.02.821
17	<b>Desalination and water purification analysis using modified double-slope passive solar still</b>	Patel S.K., Tewari S., Devnani G.L., Singh D., Singh D.	Chemical Engineering	World Environmental and Water Resources Congress 2021: Planning a Resilient Future along America's Freshwaters - Selected Papers from the World Environmental and Water Resources Congress 2021	2021		10.1061/9780784483466.002

18	<b>Review on polycyclic aromatic hydrocarbons (PAHs) migration from wastewater</b>	Gaurav G.K., Mehmood T., Kumar M., Cheng L., Sathishkumar K., Kumar A., Yadav D.		Journal of Contaminant Hydrology	2021	1697722	10.1016/j.jconhyd. 2020.103715
19	<b>RSM-Based Optimization Approach in production of Anionic Methyl Ester Sulfonate for Commercial Detergent Application</b>	S. K. Gupta, Neeta Singh & Praveen Yadav	Chemical Engineering	Jl of The Institution of Engineers (India) Series E	2021		
20	<b>environmental and health impacts of contaminants of emerging concerns: Recent treatment challenges and approaches</b>	<b>Deepak Yadav et al.,</b>	Chemical Engineering	Chemosphere	2021		
21	Impact of various surface modifications on agro waste rice husk and its reinforced polymer composites	<b>G.L. Devnani et al.</b>	Chemical Engineering	Materials Today: Proceedings	2021	10.1016/	
22	Characterization of novel natural cellulosic fibers from purple bauhinia for potential reinforcement in polymer composites	<b>G.L. Devnani et al.</b>	Chemical Engineering	Cellulose	2021	10.1007/	

23	Cellulose fiber from date palm petioles as potential reinforcement for polymer composites: Physicochemical and structural properties	<b>G.L. Devnani et al.</b>	Chemical Engineering	Polymer composites	2021	/10.1002/pc.26106	
24	Utilization of Natural Cellulosic African Teff Straw Fiber for Development of Epoxy Composites: Thermal Characterization with Activation Energy Analysis	<b>G.L. Devnani et al.</b>	Chemical Engineering	Journal of Natural Fibers	2021	10.1080/	
25	Environment friendly, renewable and sustainable poly lactic acid (PLA) based natural fiber reinforced composites – A comprehensive review.	<b>G.L. Devnani et al.</b>	Chemical Engineering	Journal of Cleaner Production	2021	0959-6526	
26	Simultaneous removal of lead and copper from synthetic water by electrocoagulation and techno-economic evaluation: optimization through response surface methodology	<b>Dr. A. K. Rathore et al.</b>	Chemical Engineering	International Journal of Engineering, Science and Technology	2021	2278-9510	
27	Thermal, kinetic and thermodynamic study for co-pyrolysis of pine needles and styrofoam using thermogravimetric analysis	<b>Dr. Rajesh Katiyar, Dr. A. K. Rathore</b>	Chemical Engineering	Energy	2021	0360-5442	



28	Modelling of Particle Size Distribution in Butyl Acrylate Emulsion Polymerization in a Batch Reactor	<b>Dr. Rajesh Katiyar, Dr. A. K. Rathore</b>	Chemical Engineering	Indian Chemical Engineer	2021	0019-4506	
29	Synthesis and Performance Evaluation of Green Anionic Polymeric Surfactant for Detergent Application	S. K. Gupta, Neeta Singh & Praveen Yadav	Chemical Engineering	Asian JI of Chemistry	2021	9707077	
30	Optimization of Arsenate Adsorption over Aluminum-Impregnated Tea Waste Biochar Using RSM–Central Composite Design and Adsorption Mechanism	S. K. Gupta, Ghazi Mohd. Sawood & Ashutosh. Mishra	Chemical Engineering	Jl. Of Hazard, Toxic Radioactive Waste	2021	4020075	
31	Selective As(v) capture by a novel magnetic green Fe-biochar composite in a packed column: An application of central composite design	Ghazi Mohd Sawood, Shobhit Dixit, Gaurav Mishra and S. K. Gupta	Chemical Engineering	Environmental Science: Water Research & Technology	2021	2053-1419	<a href="https://pubs.rsc.org/en/journals/journalissues/ew#!recentarticles&amp;adv">https://pubs.rsc.org/en/journals/journalissues/ew#!recentarticles&amp;adv</a>

32	Equilibrium penetration of pluronic F-68 in lipid monolayers	Nigam P.	Chemical Engineering	Chemistry and Physics of Lipids	2020	93084	<a href="https://doi.org/10.1016/j.chemphyslip.2020.104888">10.1016/j.chemphyslip.2020.104888</a>
33	Suitability of graphene monolayer as sensor for carcinogenic heavy metals in water: A DFT investigation	Srivastava M., Srivastava A., Pandey S.K.	Chemical Engineering	Applied Surface Science	2020	1694332	<a href="https://doi.org/10.1016/j.apsusc.2020.146021">10.1016/j.apsusc.2020.146021</a>

34	Pyrolysis of waste milk packets in a screw-type continuous reactor: Optimization through response surface methodology and products characterization	Almas S., Lal N., Varma A.K., Thakur L.S., Mondal P.	Chemical Engineering	Environmental Progress and Sustainable Energy	2020	19447442	<a href="https://doi.org/10.1002/ep.13446">10.1002/ep.13446</a>
35	Thermodynamic quantification of sodium dodecyl sulfate penetration in cholesterol and phospholipid monolayers	Nigam P.	Chemical Engineering	Chemistry and Physics of Lipids	2020	93084	<a href="https://doi.org/10.1016/j.chemphyslip.2020.104974">10.1016/j.chemphyslip.2020.104974</a>
36	Physicochemical characterization and kinetics study of parthenium hysterophorus for pyrolysis process	Rahul Lanjewar, Lokendra Singh Thakur, Anil Kumar Varma, Ravi Shankar, Prasenjit Mondal	Chemical Engineering	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	2020	ISSN: 1556-7230	<a href="https://www.tandfonline.com/journals/ueso20">https://www.tandfonline.com/journals/ueso20</a>

37	Investigation of kinetic and thermodynamic parameters for pyrolysis of peanut shell using thermogravimetric analysis	Anil Kumar Varma, Shweta Singh, Ashwani Kumar Rathore, Lokendra Singh Thakur, Ravi Shankar, Prasenjit Mondal	Chemical Engineering	Biomass Conversion and Biorefinery	2020		
38	Knowledge-Based Service (KBS) Opportunities to Contour Startup Into a Scalable Enterprise	<b>Deepak Yadav, Niladari Das, and Paritosh Tripathi</b>	Chemical Engineering	International Journal of Sustainable Entrepreneurship and Corporate Social Responsibility	2020	2379-7398	<a href="https://doi.org/10.4018/IJSECSR">10.4018/IJSECSR</a>
39	African Teff Straw as a Potential Reinforcement in Polymer Composites for Light-Weight Applications: Mechanical, Thermal, Physical, and Chemical Characterization before and after Alkali Treatment	<b>Devnani, G. L., &amp; Sinha</b>	Chemical Engineering	Journal of Natural Fibers	2020	10.1080/	
40	Fly ash mediated epoxy composites: a review	Vigyan Nidhi, Deepesh Singh and <b>G.L. Devnani</b>	Chemical Engineering	Journal of Indian chem. Society	2020		

41	Potable Water Production Via Desalination Technique Using Solar Still Integrated with Partial Cooling Coil Condenser	<b>G.L Devnani,</b> Shishir Sinha et al.	Chemical Engineering	Sustainable Energy Technologies and Assessments	2020	10.1016/	
42	Investigation of kinetic and thermodynamic parameters for pyrolysis of peanut shell using thermogravimetric analysis	<b>Dr. A. K. Rathore</b> et al.	Chemical Engineering	Biomass Conversion and Biorefinery	2020	2190-6815	
43	Kinetic equilibrium and thermodynamic analyses of As (V) removal from aqueous solution using iron-impregnated Azadirachta indica carbon	S.K. Gupta & Ghazi Mohd. Sawood	Chemical Engineering	Applied Water Science	2020	2190-5495	
44	Strategies and Characterization methods in the Preparation of Polymeric Surfactants for various Applications	S. K. Gupta, Neeta Singh & P.K.S. Yadav	Chemical Engineering	Rasayan JI. Chem	2020	0974-1496	
45	Arsenate adsorption from aqueous solution using iron-loaded Azadirachta indica roots: batch and fixed-bed column study	S. K. Gupta & Ghazi Mohd. Sawood	Chemical Engineering	Desalination and Water Treatment	2020	1944-3994	

46	A holistic approach for melanoidin removal via Fe-impregnated activated carbon prepared from Mangifera indica leaves biomass	S. K. Gupta, Subhi Rizvi & Lalit Goswami	Chemical Engineering	Bioresource Technology Reports	2020	2589-014X	
47	Dielectric and radar-absorbing properties of exfoliated graphite dispersed epoxy	<b>Dr. Rajesh Katiyar</b> et al.	Chemical Engineering	Journal of Electronic Materials	2020	0361-5235	
48	Comparative emission study by real-time congestion monitoring for stable pollution policy on temporal and meso-spatial regions in Delhi	Mishra S., Kushwaha A., Aggrawal D., Gupta A.	Chemical Engineering	Journal of Cleaner Production	2019	9596526	<a href="https://doi.org/10.1016/j.jclepro.2019.03.122">10.1016/j.jclepro.2019.03.122</a>

49	Comparative emission study by real-time congestion monitoring for stable pollution policy on temporal and meso-spatial regions in Delhi	Mishra S., Kushwaha A., Aggrawal D., Gupta A.	Chemical Engineering	Journal of Cleaner Production	2019	9596526	<a href="https://doi.org/10.1016/j.jclepro.2019.03.122">10.1016/j.jclepro.2019.03.122</a>
50	Pyrolysis kinetic study of waste milk packets using thermogravimetric analysis and product characterization	<b>AK Varma et al.</b>	Chemical Engineering	Journal of Material Cycles and Waste Management	2019	<a href="https://doi.org/10.1016/j.jmcm.2019.03.013">1611-8227</a>	<a href="https://www.springer.com/journal/10163">https://www.springer.com/journal/10163</a>

52	Pyrolysis of wood sawdust: effects of process parameters on products yield and characterization of product	<b>AK Varma et al.</b>	Chemical Engineering	Waste Management	2019	0956-053X	<a href="https://www.sciencedirect.com/journal/waste-management">https://www.sciencedirect.com/journal/waste-management</a>
53	Ultra-trace sensing of cadmium and lead by square wave anodic stripping voltammetry using ionic liquid modified graphene oxide	<b>SK Pandey et al.,</b>	Chemical Engineering	Materials Science for Energy Technologies	2019		



54	Electrochemically reduced graphene oxide modified with electrodeposited thionine and horseradish peroxidase for hydrogen peroxide sensing and inhibitive measurement of chromium	<b>SK Pandey et al.,</b>	Chemical Engineering	Materials Science for Energy Technologies	2019		
55	Epoxy-based composites reinforced with African teff straw (Eragostis tef) for light weight applications	<b>Devnani, G. L., &amp; Sinha</b>	Chemical Engineering	Polymer and polymer composites	2019	10.1177/0967391118822269	
56	Effect of nanofillers on the properties of natural fiber reinforced polymer composites	<b>Devnani, G.L., Sinha, S</b>	Chemical Engineering	Materials Today: Proceedings	2019	<a href="https://doi.org/10.1016/j.matpr.2019.06.460">10.1016/j.matpr.2019.06.460</a>	
57	Extraction, characterization and thermal degradation kinetics with activation energy of untreated and alkali treated Saccharum spontaneum (Kans grass) fiber	<b>Devnani, G. L., &amp; Sinha, S.</b>	Chemical Engineering	Composites Part B	2019		
58	Advanced thermally stable, self-sustaining NiCo <sub>2</sub> O <sub>4</sub> catalyst for CNG emissions in lean burn environment	<b>Deepak Yadav Pratichi Singh R.Prasad</b>	Chemical Engineering	International Journal of Hydrogen Energy	2019	0360-3199	<a href="#">International Journal of Hydrogen Energy</a>

59	Study on the application of nano additives for engineering properties enhancement of bonded metal substrate	<b>Ranvijay Singh, Rajesh Katiyar</b>	Chemical Engineering	International Journal for Research in Applied Science Engineering Technology	2019	2321-9653	<a href="http://www.ijraset.com">www.ijraset.com</a>
60	Recovery of Glutaric acid by Reactive Extraction using Tri-n-Octylamine in Different Biodiesels	<b>Dr. A. K. Rathore et al.</b>	Chemical Engineering	Oriental Journal of Chemistry	2019	<b>0970 - 020X</b>	<a href="https://www.researchgate.net/publication/331378493/Recovery_of_Glutaric_acid_by_Reactive_Extraction_using_Tri-n-Octylamine_in_Different_Biodiesels">https://www.researchgate.net/publication/331378493/Recovery_of_Glutaric_acid_by_Reactive_Extraction_using_Tri-n-Octylamine_in_Different_Biodiesels</a>
61	Evaluation of Distribution of Succinic Acid between Binary Phase System with Biodiesel+ N, N-Dioctyl octan-1-amine	<b>Dr. A. K. Rathore et al.</b>	Chemical Engineering	International Journal of Chemical Engineering	2019	16878078	
62	Explore the competency of natural diluents with Tri-n-octylamine for the extractive separation of malonic acid	<b>Dr. A. K. Rathore et al.</b>	Chemical Engineering	Chemical Data Collections	2019	2405-8300	
63	Semibatch Emulsion Polymerisation Modelling: Polybutyl Acrylate Case Study	Tulika Gaur and <b>A. Sood</b>	Chemical Engineering	Indian Chemical Engineer	2019	0019-4506	

64	A Systematic Review on Frankincense (Boswellia Species)	<b>S. K. Gupta &amp; Swati Yadav</b>	Chemical Engineering	International Journal of Innovative Research in Technology	2018	2349-6002	<a href="https://ijirt.org/index">https://ijirt.org/index</a>
65	Effect of different Parameters on yield of Frankincense Oil using steam distillation and GC-MS Analysis	<b>S.K.Gupta, Kalpana &amp; Swati Yadav</b>	Chemical Engineering	Journal of Emerging Technologies and Innovative Research	2018	2349-5162	<a href="https://www.jetir.org/P1index.php">https://www.jetir.org/P1index.php</a>
66	Defluoridation study of Ground Water using Adsorbent prepared from Mango Bark	<b>S. K. Gupta &amp; Akriti Rastogi</b>	Chemical Engineering	International Journal of Chemical & Petrochemical Technology	2018	ISSN(E): 2319-4464	<a href="https://www.ijcptjun20171">10.24247/ijcptjun20171</a>
67	Arsenic Remediation of the Waste Water using Adsorbent: A Review	<b>Ghazi Mohd Sawood and Dr.S.k.Gupta</b>	Chemical Engineering	International Journal of Engineering Technology Science and Research	2018	ISSN 2394 – 3386	<a href="http://www.ijetsr.com">www.ijetsr.com</a>
68	An Improved Microwave Extraction Method for Distillation of Essential Oil from Piper Betle L	<b>Kalyani Agarwal, S.K.Gupta</b>	Chemical Engineering	International Journal for Research in Applied Science & Engineering Technology	2018	<a href="https://www.ijraset.com">2321-9653</a>	<a href="http://www.ijraset.com">www.ijraset.com</a>

69	Mathematical modelling of water absorption behavior of bagasse fiber reinforced epoxy composite materia	<b>Devnani, G. L., &amp; Sinha, S</b>	Chemical Engineering	Materials Today: Proceedings	2018	2214-7853	<a href="https://www.sciencedirect.com/journal/materials-today-proceedings">https://www.sciencedirect.com/journal/materials-today-proceedings</a>
70	Studies on the structural changes during curing of epoxy and its blend with CTBN	<b>Dr. A. K. Rathore et al.</b>	Chemical Engineering	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	2018	1386-1425	
71	Novel process for isolation of major bio-polymers from Menthaarvensis distilled biomass	<b>Dr. Rajesh Katiyar et al.</b>	Chemical Engineering	Industrial Crops & Products	2018	0926-6690	
72	A critical optimization study on hydrothermal treatment for decortication of pearl millet to improve its consumption efficiency	Rathore S., Singh K.	Food Technology	Journal of Food Measurement and Characterization	2017	21934126	10.1007/s11694-017-9529-y
73	Removal of Cr(VI) From Waste Water Using Root of Eucalyptus Tree	Aparna Bhawnani and Dr. S.K.Gupta	Chemical Engineering	International Journal of Engineering Technology Science and Research	2017	ISSN 2394 – 3386	<a href="http://www.ijetsr.com">www.ijetsr.com</a>

74	Mathematical modeling and simulation of gasketed plate heat exchanger	Katiyar J., Husain S.	Chemical Engineering	Novel Water Treatment and Separation Methods: Simulation of Chemical Processes	2017		<a href="https://doi.org/10.1201/9781315225395">10.1201/9781315225395</a>
75	Conical fluidized beds- Case study for gas solid system involving wheat flour and additive	Rajesh Katiyar	Chemical Engineering	International Research Journal of Engineering and Technology	2017	e-ISSN: 2395 -0056	<a href="https://www.irjet.net">https://www.irjet.net</a>
76	Conical fluidized beds- Case study for gas solid system involving coarse particles	Rajesh Katiyar	Chemical Engineering	International Research Journal of Engineering and Technology	2017	e-ISSN: 2395 -0056	<a href="https://www.irjet.net">https://www.irjet.net</a>
77	Modeling and simulation of Menthaarvensis L. essential oil extraction by water-steam distillation process	Rajesh Katiyar	Chemical Engineering	International Research Journal of Engineering and Technology	2017	e-ISSN: 2395 -0056	<a href="https://www.irjet.net">https://www.irjet.net</a>
78	Studies on engineering properties of binders loaded with nano-fillers for better designed composites	Rajesh Katiyar, Rajesh Kumar	Chemical Engineering	International Journal of Research in Engineering and Technology	2017	eISSN: 2319-1163	<a href="https://ijret.org">https://ijret.org</a>
79	Studies on Furan Polymer Concrete	Rajesh Katiyar, Shobhit Shukla	Chemical Engineering	International Research Journal of Engineering and Technology	2017	e-ISSN: 2395 -0056	<a href="https://www.irjet.net">https://www.irjet.net</a>