

Shaukat Ali Mazari

List of Publications by Year in descending order

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67
papers

2,734
citations

218677

26
h-index

189892

50
g-index

67
all docs

67
docs citations

67
times ranked

2351
citing authors

#	ARTICLE	IF	CITATIONS
1	An overview of effect of process parameters on hydrothermal carbonization of biomass. Renewable and Sustainable Energy Reviews, 2017, 73, 1289-1299.	16.4	354
2	A comprehensive review on magnetic carbon nanotubes and carbon nanotube-based buckypaper for removal of heavy metals and dyes. Journal of Hazardous Materials, 2021, 413, 125375.	12.4	223
3	Graphene based nanomaterials for strain sensor application—a review. Journal of Environmental Chemical Engineering, 2020, 8, 103743.	6.7	136
4	Nanomaterials: Applications, waste-handling, environmental toxicities, and future challenges — A review. Journal of Environmental Chemical Engineering, 2021, 9, 105028.	6.7	133
5	Magnetic nanoadsorbents—potential route for heavy metals removal—a review. Environmental Science and Pollution Research, 2020, 27, 24342-24356.	5.3	127
6	Development of fruit waste derived bio-adsorbents for wastewater treatment: A review. Journal of Hazardous Materials, 2021, 416, 125848.	12.4	109
7	An overview of solvent management and emissions of amine-based CO ₂ capture technology. International Journal of Greenhouse Gas Control, 2015, 34, 129-140.	4.6	100
8	Recent progress in sustainable recycling of LiFePO ₄ -type lithium-ion batteries: Strategies for highly selective lithium recovery. Chemical Engineering Journal, 2022, 431, 133993.	12.7	98
9	Magnetic nanoparticles incorporation into different substrates for dyes and heavy metals removal—A Review. Environmental Science and Pollution Research, 2020, 27, 43526-43541.	5.3	82
10	Emerging pollutants and their removal using visible-light responsive photocatalysis—A comprehensive review. Journal of Environmental Chemical Engineering, 2021, 9, 106643.	6.7	74
11	Recent trends and future challenges of pesticide removal techniques — A comprehensive review. Journal of Environmental Chemical Engineering, 2021, 9, 105571.	6.7	72
12	A review on the properties and applications of chitosan, cellulose and deep eutectic solvent in green chemistry. Journal of Industrial and Engineering Chemistry, 2021, 104, 362-380.	5.8	72
13	Fabrication of advance magnetic carbon nano-materials and their potential applications: A review. Journal of Environmental Chemical Engineering, 2019, 7, 102812.	6.7	71
14	Synthesis and characterization of hydrochars produced by hydrothermal carbonization of oil palm shell. Canadian Journal of Chemical Engineering, 2015, 93, 1916-1921.	1.7	65
15	Advanced microbial fuel cell for waste water treatment—a review. Environmental Science and Pollution Research, 2021, 28, 5005-5019.	5.3	63
16	An overview of catalytic conversion of CO ₂ into fuels and chemicals using metal organic frameworks. Chemical Engineering Research and Design, 2021, 149, 67-92.	5.6	62
17	Opportunities and challenges in the development of monoethanolamine and its blends for post-combustion CO ₂ capture. International Journal of Greenhouse Gas Control, 2018, 79, 212-233.	4.6	59
18	A review of recent trends and emerging perspectives of ionic liquid membranes for CO ₂ separation. Journal of Environmental Chemical Engineering, 2021, 9, 105860.	6.7	56

#	ARTICLE	IF	CITATIONS
19	Iron Oxide Nanomaterials for the Removal of Heavy Metals and Dyes From Wastewater. , 2019, , 447-472.		55
20	Degradation study of piperazine, its blends and structural analogs for CO2 capture: A review. International Journal of Greenhouse Gas Control, 2014, 31, 214-228.	4.6	42
21	Review of modelling and simulation strategies for evaluating corrosive behavior of aqueous amine systems for CO2 capture. International Journal of Greenhouse Gas Control, 2020, 96, 103010.	4.6	38
22	Magnetic nanocomposites for sustainable water purificationâ€”a comprehensive review. Environmental Science and Pollution Research, 2021, 28, 19563-19588.	5.3	38
23	Water decontamination by 3D graphene based materials: A review. Journal of Water Process Engineering, 2020, 36, 101404.	5.6	37
24	Prediction of thermo-physical properties of 1-Butyl-3-methylimidazolium hexafluorophosphate for CO2 capture using machine learning models. Journal of Molecular Liquids, 2021, 327, 114785.	4.9	31
25	A comprehensive review of microbial desalination cells for present and future challenges. Desalination, 2022, 535, 115808.	8.2	30
26	Insight into immobilization efficiency of Lipase enzyme as a biocatalyst on the graphene oxide for adsorption of Azo dyes from industrial wastewater effluent. Journal of Molecular Liquids, 2022, 354, 118849.	4.9	29
27	A review of role of cathodes in the performance of microbial fuel cells. Journal of Electroanalytical Chemistry, 2021, 899, 115673.	3.8	27
28	Carbon and polymer-based magnetic nanocomposites for oil-spill remediationâ€”a comprehensive review. Environmental Science and Pollution Research, 2021, 28, 54477-54496.	5.3	24
29	Solvothermal Liquefaction of Corn Stalk: Physico-Chemical Properties of Bio-oil and Biochar. Waste and Biomass Valorization, 2019, 10, 1957-1968.	3.4	23
30	Bioethanol production from forest residues and life cycle cost analysis of bioethanol-gasoline blend on transportation sector. Journal of Environmental Chemical Engineering, 2021, 9, 105542.	6.7	23
31	Modeling the effect of piperazine on CO2 loading in MDEA/PZ mixture. Fluid Phase Equilibria, 2017, 434, 233-243.	2.5	22
32	Advanced Nanomaterials Synthesis from Pyrolysis and Hydrothermal Carbonization: A Review. Current Organic Chemistry, 2018, 22, 446-461.	1.6	22
33	Effect of Adsorption and Passivation Phenomena on the Electrochemical Oxidation of Phenol and 2-Chlorophenol at Carbon Black Diamond Composite Electrode. Industrial & Engineering Chemistry Research, 2017, 56, 1652-1660.	3.7	21
34	Promoting sustainability of use of biomass as energy resource: Pakistanâ€™s perspective. Environmental Science and Pollution Research, 2019, 26, 29606-29619.	5.3	20
35	Formation and elimination of nitrosamines and nitramines in freshwaters involved in post-combustion carbon capture process. Journal of Environmental Chemical Engineering, 2019, 7, 103111.	6.7	19
36	Nickel oxides/hydroxides-graphene as hybrid supercapattery nanocomposites for advanced charge storage materials â€”a review. Critical Reviews in Solid State and Materials Sciences, 2021, 46, 553-586.	12.3	19

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37	Modeling the rate of corrosion of carbon steel using activated diethanolamine solutions for CO ₂ absorption. Chinese Journal of Chemical Engineering, 2020, 28, 2099-2110.	3.5	18
38	Recent developments and progress of aerogel assisted environmental remediation: a review. Journal of Porous Materials, 2021, 28, 1919-1933.	2.6	18
39	Thermal degradation of aqueous 2-aminoethylethanolamine in CO ₂ capture; identification of degradation products, reaction mechanisms and computational studies. Chemistry Central Journal, 2017, 11, 10.	2.6	15
40	Thermal degradation kinetics of morpholine for carbon dioxide capture. Journal of Environmental Chemical Engineering, 2020, 8, 103814.	6.7	15
41	Ultrasonic-assisted synthesis of polythiophene-carbon nanotubes composites as supercapacitors. Journal of Materials Science: Materials in Electronics, 2021, 32, 16203-16214.	2.2	15
42	Dual-application of novel magnetic carbon nanocomposites as catalytic liquefaction for bio-oil synthesis and multi-heavy metal adsorption. Renewable Energy, 2021, 172, 1103-1119.	8.9	15
43	Thermal degradation of piperazine and diethanolamine blend for CO ₂ capture. International Journal of Greenhouse Gas Control, 2016, 47, 1-7.	4.6	14
44	Co-liquefaction of synthetic polyethylene and polyethylene bags with sugarcane bagasse under supercritical conditions: A comparative study. Renewable Energy, 2020, 162, 2397-2407.	8.9	14
45	A review on extractive fermentation via ion exchange adsorption resins opportunities, challenges, and future prospects. Biomass Conversion and Biorefinery, 2023, 13, 3543-3554.	4.6	14
46	Photocatalytic degradation of methyl orange from wastewater using a newly developed Fe-Cu-Zn-ZSM-5 catalyst. Environmental Science and Pollution Research, 2020, 27, 26239-26248.	5.3	13
47	Thermal, mechanical, rheological, electrical and electromagnetic interference shielding performance of polypropylene/magnetic carbon nanocomposites. Journal of Environmental Chemical Engineering, 2021, 9, 105447.	6.7	12
48	Combined Impact of Ultrasound Pre-treatment and Hydrodistillation on Bioactive Compounds and GC-MS Analysis of Cinnamomum cassia Bark Extract. Waste and Biomass Valorization, 2021, 12, 807-821.	3.4	10
49	Experimental investigations of arsenic adsorption from contaminated water using chemically activated hematite (Fe ₂ O ₃) iron ore. Environmental Science and Pollution Research, 2021, 28, 12898-12908.	5.3	10
50	Synthesis and optimization of chitosan supported magnetic carbon bio-nanocomposites and bio-oil production by solvothermal carbonization co-precipitation for advanced energy applications. Renewable Energy, 2021, 178, 587-599.	8.9	10
51	Recent advances and developments in advanced green porous nanomaterial for sustainable energy storage application. Journal of Porous Materials, 0, , 1.	2.6	9
52	Hydrothermal carbonization of oil palm trunk via taguchi method. Korean Journal of Chemical Engineering, 2021, 38, 797-806.	2.7	8
53	Modeling the Effect of Piperazine on Carbon Steel Corrosion Rate in Carbonated Activated MDEA Solutions. International Journal of Electrochemical Science, 2016, 11, 4560-4585.	1.3	6
54	Current applications of smart nanotextiles and future trends. , 2021, , 343-365.		6

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55	An overview of effect of process parameters for removal of CO2 using biomass-derived adsorbents. Biomass Conversion and Biorefinery, 2023, 13, 4495-4513.	4.6	6
56	Effect of piperazine on solubility of carbon dioxide using aqueous diethanolamine. Fluid Phase Equilibria, 2016, 414, 1-13.	2.5	5
57	A review of gas chromatographic techniques for identification of aqueous amine degradation products in carbonated environments. Environmental Science and Pollution Research, 2021, 28, 6324-6348.	5.3	5
58	Thermal degradation of diethanolamine at stripper condition for CO2 capture: Product types and reaction mechanisms. Chinese Journal of Chemical Engineering, 2019, 27, 2900-2908.	3.5	4
59	Environmental impact of using nanomaterials in textiles. , 2021, , 321-342.		4
60	Harvesting Electricity from CO2 Emission: Opportunities, Challenges and Future Prospects. International Journal of Precision Engineering and Manufacturing - Green Technology, 2021, 8, 1061-1081.	4.9	3
61	Separation of propylene and propane by functional mixture of imidazolium thiocyanate ionic liquid-organic solvent-pyrous salt. Canadian Journal of Chemical Engineering, 2021, 99, .	1.7	2
62	Overview of bioelectrochemical approaches for sulfur reduction: current and future perspectives. Biomass Conversion and Biorefinery, 2023, 13, 12333-12348.	4.6	2
63	New generation adsorbents for removal of pesticides from water and waste water. , 2022, , 189-207.		2
64	Application of microwave synthesis in biodiesel production. , 2021, , 623-641.		1
65	Conducting Polymers and Their Composites. Engineering Materials, 2021, , 147-178.	0.6	1
66	Comprehensive Review on Silicon-enhanced Green Nanocomposites Towards Sustainable Development. Silicon, 0, , 1.	3.3	1
67	Conventional techniques for nanomaterials preparation. , 2022, , 91-110.		0