Sabzoi Nizamuddin

List of Publications by Year in Descending Order

81 papers	2,368 citations	27 h-index	47 g-index
82 ext. papers	3,097 ext. citations	5.3 avg, IF	5.61 L-index

#	Paper	IF	Citations
81	The role of new compatibilizers in hybrid combinations of waste plastics and waste vehicle tyres crumb rubber-modified bitumen **2022**, 165-178		0
80	Thermo-mechanical, rheological, and chemical properties of recycled plastics **2022**, 29-42		0
79	Future development, prospective, and challenges in the application of green nanocomposites in environmental remediation **2022**, 483-511		
78	Thermal-chemical modified rice husk-based porous adsorbents for Cu (II), Pb (II), Zn (II), Mn (II) and Fe (III) adsorption. *Journal of Water Process Engineering*, **2022**, 46, 102620	6.7	2
77	Performance of waste plastic bio-oil as a rejuvenator for asphalt binder.. *Science of the Total Environment*, **2022**, 828, 154489	10.2	3
76	The effect of KOH activation and Ag nanoparticle incorporation on rice husk-based porous materials for wastewater treatment. *Chemosphere*, **2021**, 132760	8.4	4
75	Recycling asphalt using waste bio-oil: A review of the production processes, properties and future perspectives. *Chemical Engineering Research and Design*, **2021**, 147, 1135-1159	5.5	17
74	Magnetic nanocomposites for sustainable water purification-a comprehensive review. *Environmental Science and Pollution Research*, **2021**, 28, 19563-19588	5.1	18
73	Effect of solvent on hydro-solvothermal co liquefaction of sugarcane bagasse and polyethylene for bio-oil production in ethanol□water system. *Chemical Engineering Research and Design*, **2021**, 148, 1060-1069	5.5	5
72	Catalytic upgradation of bio-oil over metal supported activated carbon catalysts in sub-supercritical ethanol. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105059	6.8	5
71	Nanomaterials: Applications, waste-handling, environmental toxicities, and future challenges □A review. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105028	6.8	58
70	Hydrothermal carbonization of oil palm trunk via taguchi method. *Korean Journal of Chemical Engineering*, **2021**, 38, 797-806	2.8	0
69	Recycling of low-value packaging films in bitumen blends: A grey-based multi criteria decision making approach considering a set of laboratory performance and environmental impact indicators. *Science of the Total Environment*, **2021**, 778, 146187	10.2	5
68	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	3.2	4
67	Catalytic co-liquefaction of sugarcane bagasse and polyethylene for bio-oil production under supercritical conditions: Effect of catalysts. *Journal of Analytical and Applied Pyrolysis*, **2021**, 153, 104944	6	6
66	Edible bio-oil production from microalgae and application of nano-technology **2021**, 91-116		1
65	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	8.1	6

64	Thermal, mechanical, rheological, electrical and electromagnetic interference shielding performance of polypropylene/magnetic carbon nanocomposites. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105447	6.8	3
63	Carbon and polymer-based magnetic nanocomposites for oil-spill remediation-a comprehensive review. *Environmental Science and Pollution Research*, **2021**, 28, 54477-54496	5.1	6
62	Sustainable Polymers from Recycled Waste Plastics and Their Virgin Counterparts as Bitumen Modifiers: A Comprehensive Review. *Polymers*, **2021**, 13,	4.5	6
61	Experimental investigation of physicochemical, thermal, mechanical and rheological properties of polylactide/rice straw hydrochar composite. *Journal of Environmental Chemical Engineering*, **2021**, 9, 106011	6.8	2
60	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	8.1	3
59	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	5.1	8
58	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	4.2	24
57	Solvothermal co-liquefaction of sugarcane bagasse and polyethylene under sub-supercritical conditions: Optimization of process parameters. *Chemical Engineering Research and Design*, **2020**, 137, 300-311	5.5	15
56	Waste materials for wastewater treatment and waste adsorbents for biofuel and cement supplement applications: A critical review. *Journal of Cleaner Production*, **2020**, 255, 120261	10.3	77
55	Functionalized nanomaterials for the aerospace, vehicle, and sports industries **2020**, 795-825		2
54	Recycled plastic as bitumen modifier: The role of recycled linear low-density polyethylene in the modification of physical, chemical and rheological properties of bitumen. *Journal of Cleaner Production*, **2020**, 266, 121988	10.3	47
53	Synthesis of novel magnetic carbon nano-composite from waste biomass: A comparative study of industrially adoptable hydro/solvothermal co-precipitation route. *Journal of Environmental Chemical Engineering*, **2020**, 8, 103519	6.8	10
52	Improving fermentation industry sludge treatment as well as energy production with constructed dual chamber microbial fuel cell. *SN Applied Sciences*, **2020**, 2, 1	1.8	9
51	Co-liquefaction of synthetic polyethylene and polyethylene bags with sugarcane bagasse under supercritical conditions: A comparative study. *Renewable Energy*, **2020**, 162, 2397-2407	8.1	3
50	Synthesis and characterization of rice husk biochar via hydrothermal carbonization for wastewater treatment and biofuel production. *Scientific Reports*, **2020**, 10, 18851	4.9	26
49	Graphene based nanomaterials for strain sensor application□ review. *Journal of Environmental Chemical Engineering*, **2020**, 8, 103743	6.8	63
48	Study of diesel engine characteristics by adding nanosized zinc oxide and diethyl ether additives in Mahua biodiesel-diesel fuel blend. *Scientific Reports*, **2020**, 10, 15326	4.9	50
47	Magnetic nanoparticles incorporation into different substrates for dyes and heavy metals removal-A Review. *Environmental Science and Pollution Research*, **2020**, 27, 43526-43541	5.1	40

46	Process optimization and empirical model development for lignocellulosic biomass via gravimetric analysis. *Biomass Conversion and Biorefinery*, **2020**, 10, 447-461	2.3	
45	Magnetic nanoadsorbentsVpotential route for heavy metals removal-a review. *Environmental Science and Pollution Research*, **2020**, 27, 24342-24356	5.1	58
44	Promoting sustainability of use of biomass as energy resource: Pakistan\s perspective. *Environmental Science and Pollution Research*, **2019**, 26, 29606-29619	5.1	9
43	Structural, thermal, rheological and optical properties of poly(lactic acid) films prepared through solvent casting and melt processing techniques. *Journal of the Taiwan Institute of Chemical Engineers*, **2019**, 104, 293-300	5.3	10
42	Electrical Properties of Sustainable Nano-Composites Containing Nano-Fillers: Dielectric Properties and Electrical Conductivity **2019**, 899-914		3
41	An Overview of Magnetic Material: Preparation and Adsorption Removal of Heavy Metals from Wastewater. *Nanotechnology in the Life Sciences*, **2019**, 131-159	1.1	16
40	Extractive desulfurization of gasoline using binary solvent of bronsted-based ionic liquids and non-volatile organic compound. *Chemical Papers*, **2019**, 73, 2757-2765	1.9	3
39	Microwave-Assisted Synthesis for Carbon Nanomaterials **2019**, 121-147		2
38	Synthesis and characterization of polylactide/rice husk hydrochar composite. *Scientific Reports*, **2019**, 9, 5445	4.9	42
37	Microwave Hydrothermal Carbonization of Rice Straw: Optimization of Process Parameters and Upgrading of Chemical, Fuel, Structural and Thermal Properties. *Materials*, **2019**, 12,	3.5	22
36	An overview of OPS from oil palm industry as feedstock for bio-oil production. *Biomass Conversion and Biorefinery*, **2019**, 9, 827-841	2.3	7
35	Preparation of Square-Shaped Starch Nanocrystals/Polylactic Acid Based Bio-nanocomposites: Morphological, Structural, Thermal and Rheological Properties. *Waste and Biomass Valorization*, **2019**, 10, 3197-3211	3.2	10
34	Comparative study of microwave and conventional solvothermal synthesis for magnetic carbon nanocomposites and bio-oil from rice husk. *Journal of Environmental Chemical Engineering*, **2019**, 7, 103266	6.8	11
33	Synthesis of organic phase change materials by using carbon nanotubes as filler material. *Nano Structures Nano Objects*, **2019**, 19, 100361	5.6	17
32	Synthesis of organic phase change materials (PCM) for energy storage applications: A review. *Nano Structures Nano Objects*, **2019**, 20, 100399	5.6	72
31	Utilization of oil palm fronds for bio-oil and bio-char production using hydrothermal liquefaction technology. *Biomass Conversion and Biorefinery*, **2019**, 11, 1465	2.3	3
30	Immobilization of Lipase Enzyme Carbon Nanotubes via Adsorption. *IOP Conference Series: Materials Science and Engineering*, **2019**, 495, 012055	0.4	6
29	Thermal Properties of Sustainable Thermoplastics Nanocomposites Containing Nanofillers and Its Recycling Perspective **2019**, 915-933		5

28	Multiwall carbon nanotube promising route for removal of chromium from wastewater via batch column mechanism. *IOP Conference Series: Materials Science and Engineering*, **2019**, 495, 012061	0.4	1
27	Iron Oxide Nanomaterials for the Removal of Heavy Metals and Dyes From Wastewater **2019**, 447-472		31
26	Fabrication of advance magnetic carbon nano-materials and their potential applications: A review. *Journal of Environmental Chemical Engineering*, **2019**, 7, 102812	6.8	43
25	Characterization and Process Optimization of Biochar Produced Using Novel Biomass, Waste Pomegranate Peel: A Response Surface Methodology Approach. *Waste and Biomass Valorization*, **2019**, 10, 521-532	3.2	51
24	Solvothermal Liquefaction of Corn Stalk: Physico-Chemical Properties of Bio-oil and Biochar. *Waste and Biomass Valorization*, **2019**, 10, 1957-1968	3.2	15
23	Upgradation of chemical, fuel, thermal, and structural properties of rice husk through microwave-assisted hydrothermal carbonization. *Environmental Science and Pollution Research*, **2018**, 25, 17529-17539	5.1	44
22	Synthesis of magnetic carbon nanocomposites by hydrothermal carbonization and pyrolysis. *Environmental Chemistry Letters*, **2018**, 16, 821-844	13.3	48
21	Recent advances in production and upgrading of bio-oil from biomass: A critical overview. *Journal of Environmental Chemical Engineering*, **2018**, 6, 5101-5118	6.8	107
20	Utilization of Distillery Effluent as Substrate for Power Generation with Optimized Parametric Conditions using Microbial Fuel Cell. *Eurasian Journal of Analytical Chemistry*, **2018**, 13,		6
19	Advanced Nanomaterials Synthesis from Pyrolysis and Hydrothermal Carbonization: A Review. *Current Organic Chemistry*, **2018**, 22, 446-461	1.7	19
18	Opportunities and challenges in the development of monoethanolamine and its blends for post-combustion CO2 capture. *International Journal of Greenhouse Gas Control*, **2018**, 79, 212-233	4.2	33
17	Adsorptive Removal of Methylene Blue Using Magnetic Biochar Derived from Agricultural Waste Biomass: Equilibrium, Isotherm, Kinetic Study. *International Journal of Nanoscience*, **2018**, 17, 1850002	0.6	6
16	Sub-supercritical liquefaction of sugarcane bagasse for production of bio-oil and char: Effect of two solvents. *Journal of Environmental Chemical Engineering*, **2018**, 6, 6589-6601	6.8	26
15	Thermogravimetric pyrolysis for neem char using novel agricultural waste: a study of process optimization and statistical modeling. *Biomass Conversion and Biorefinery*, **2018**, 8, 857-871	2.3	9
14	An overview of microwave hydrothermal carbonization and microwave pyrolysis of biomass. *Reviews in Environmental Science and Biotechnology*, **2018**, 17, 813-837	13.9	43
13	Recent trends in the synthesis of graphene and graphene oxide based nanomaterials for removal of heavy metals □A review. *Journal of Industrial and Engineering Chemistry*, **2018**, 66, 29-44	6.3	190
12	An overview of effect of process parameters on hydrothermal carbonization of biomass. *Renewable and Sustainable Energy Reviews*, **2017**, 73, 1289-1299	16.2	224
11	Application potential of carbon nanomaterials in water and wastewater treatment: A review. *Journal of the Taiwan Institute of Chemical Engineers*, **2017**, 72, 116-133	5.3	162

10	Column performance of carbon nanotube packed bed for methylene blue and orange red dye removal from waste water. *IOP Conference Series: Materials Science and Engineering*, **2017**, 206, 012081	0.4	3
9	Parametric study of pyrolysis and steam gasification of rice straw in presence of K2CO3. *Korean Journal of Chemical Engineering*, **2016**, 33, 2567-2574	2.8	10
8	Chemical, dielectric and structural characterization of optimized hydrochar produced from hydrothermal carbonization of palm shell. *Fuel*, **2016**, 163, 88-97	7.1	116
7	Parametric study of co-gasification of ternary blends of rice straw, polyethylene and polyvinylchloride. *Clean Technologies and Environmental Policy*, **2016**, 18, 1031-1042	4.3	18
6	A critical analysis on palm kernel shell from oil palm industry as a feedstock for solid char production. *Reviews in Chemical Engineering*, **2016**, 32,	5	39
5	Removal of Methylene Blue and Orange-G from Waste Water Using Magnetic Biochar. *International Journal of Nanoscience*, **2015**, 14, 1550009	0.6	37
4	Synthesis and characterization of hydrochars produced by hydrothermal carbonization of oil palm shell. *Canadian Journal of Chemical Engineering*, **2015**, 93, 1916-1921	2.3	48
3	Hydrothermal carbonization of oil palm shell. *Korean Journal of Chemical Engineering*, **2015**, 32, 1789-1797	2.8	56
2	Utilization of palm oil sludge through pyrolysis for bio-oil and bio-char production. *Bioresource Technology*, **2015**, 178, 65-69	11	88
1	An overview of solvent management and emissions of amine-based CO2 capture technology. *International Journal of Greenhouse Gas Control*, **2015**, 34, 129-140	4.2	70