

# Nizamuddin Sabzoi

## List of Publications by Citations

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66

papers

1,666

citations

23

h-index

39

g-index

67

ext. papers

2,291

ext. citations

5.2

avg, IF

5.34

L-index

#	Paper	IF	Citations
66	An overview of effect of process parameters on hydrothermal carbonization of biomass. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 73, 1289-1299	16.2	224
65	Chemical, dielectric and structural characterization of optimized hydrochar produced from hydrothermal carbonization of palm shell. <i>Fuel</i> , <b>2016</b> , 163, 88-97	7.1	116
64	Recent advances in production and upgrading of bio-oil from biomass: A critical overview. <i>Journal of Environmental Chemical Engineering</i> , <b>2018</b> , 6, 5101-5118	6.8	107
63	A comprehensive review on magnetic carbon nanotubes and carbon nanotube-based buckypaper for removal of heavy metals and dyes. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 413, 125375	12.8	80
62	Waste materials for wastewater treatment and waste adsorbents for biofuel and cement supplement applications: A critical review. <i>Journal of Cleaner Production</i> , <b>2020</b> , 255, 120261	10.3	77
61	Nanomaterials: Applications, waste-handling, environmental toxicities, and future challenges [A review. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105028	6.8	58
60	Magnetic nanoadsorbents\potential route for heavy metals removal-a review. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 24342-24356	5.1	58
59	Hydrothermal carbonization of oil palm shell. <i>Korean Journal of Chemical Engineering</i> , <b>2015</b> , 32, 1789-1797	7.8	56
58	Characterization and Process Optimization of Biochar Produced Using Novel Biomass, Waste Pomegranate Peel: A Response Surface Methodology Approach. <i>Waste and Biomass Valorization</i> , <b>2019</b> , 10, 521-532	3.2	51
57	Study of diesel engine characteristics by adding nanosized zinc oxide and diethyl ether additives in Mahua biodiesel-diesel fuel blend. <i>Scientific Reports</i> , <b>2020</b> , 10, 15326	4.9	50
56	Synthesis of magnetic carbon nanocomposites by hydrothermal carbonization and pyrolysis. <i>Environmental Chemistry Letters</i> , <b>2018</b> , 16, 821-844	13.3	48
55	Synthesis and characterization of hydrochars produced by hydrothermal carbonization of oil palm shell. <i>Canadian Journal of Chemical Engineering</i> , <b>2015</b> , 93, 1916-1921	2.3	48
54	Upgradation of chemical, fuel, thermal, and structural properties of rice husk through microwave-assisted hydrothermal carbonization. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 17529-17539	5.1	44
53	Fabrication of advance magnetic carbon nano-materials and their potential applications: A review. <i>Journal of Environmental Chemical Engineering</i> , <b>2019</b> , 7, 102812	6.8	43
52	An overview of microwave hydrothermal carbonization and microwave pyrolysis of biomass. <i>Reviews in Environmental Science and Biotechnology</i> , <b>2018</b> , 17, 813-837	13.9	43
51	Synthesis and characterization of polylactide/rice husk hydrochar composite. <i>Scientific Reports</i> , <b>2019</b> , 9, 5445	4.9	42
50	Magnetic nanoparticles incorporation into different substrates for dyes and heavy metals removal-A Review. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 43526-43541	5.1	40

49	A critical analysis on palm kernel shell from oil palm industry as a feedstock for solid char production. <i>Reviews in Chemical Engineering</i> , <b>2016</b> , 32,	5	39
48	Opportunities and challenges in the development of monoethanolamine and its blends for post-combustion CO <sub>2</sub> capture. <i>International Journal of Greenhouse Gas Control</i> , <b>2018</b> , 79, 212-233	4.2	33
47	Advanced microbial fuel cell for waste water treatment-a review. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 5005-5019	5.1	31
46	Synthesis and characterization of rice husk biochar via hydrothermal carbonization for wastewater treatment and biofuel production. <i>Scientific Reports</i> , <b>2020</b> , 10, 18851	4.9	26
45	Sub-supercritical liquefaction of sugarcane bagasse for production of bio-oil and char: Effect of two solvents. <i>Journal of Environmental Chemical Engineering</i> , <b>2018</b> , 6, 6589-6601	6.8	26
44	Review of modelling and simulation strategies for evaluating corrosive behavior of aqueous amine systems for CO <sub>2</sub> capture. <i>International Journal of Greenhouse Gas Control</i> , <b>2020</b> , 96, 103010	4.2	24
43	Microwave Hydrothermal Carbonization of Rice Straw: Optimization of Process Parameters and Upgrading of Chemical, Fuel, Structural and Thermal Properties. <i>Materials</i> , <b>2019</b> , 12,	3.5	22
42	Advanced Nanomaterials Synthesis from Pyrolysis and Hydrothermal Carbonization: A Review. <i>Current Organic Chemistry</i> , <b>2018</b> , 22, 446-461	1.7	19
41	Magnetic nanocomposites for sustainable water purification-a comprehensive review. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 19563-19588	5.1	18
40	Parametric study of co-gasification of ternary blends of rice straw, polyethylene and polyvinylchloride. <i>Clean Technologies and Environmental Policy</i> , <b>2016</b> , 18, 1031-1042	4.3	18
39	Solvothermal Liquefaction of Corn Stalk: Physico-Chemical Properties of Bio-oil and Biochar. <i>Waste and Biomass Valorization</i> , <b>2019</b> , 10, 1957-1968	3.2	15
38	A review on the properties and applications of chitosan, cellulose and deep eutectic solvent in green chemistry. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2021</b> , 104, 362-362	6.3	14
37	Effect of acid catalysts on hydrothermal carbonization of Malaysian oil palm residues (leaves, fronds, and shells) for hydrochar production. <i>Biomass Conversion and Biorefinery</i> , <b>2021</b> , 1	2.3	12
36	Comparative study of microwave and conventional solvothermal synthesis for magnetic carbon nanocomposites and bio-oil from rice husk. <i>Journal of Environmental Chemical Engineering</i> , <b>2019</b> , 7, 103266	6.8	11
35	Structural, thermal, rheological and optical properties of poly(lactic acid) films prepared through solvent casting and melt processing techniques. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2019</b> , 104, 293-300	5.3	10
34	Parametric study of pyrolysis and steam gasification of rice straw in presence of K <sub>2</sub> CO <sub>3</sub> . <i>Korean Journal of Chemical Engineering</i> , <b>2016</b> , 33, 2567-2574	2.8	10
33	Preparation of Square-Shaped Starch Nanocrystals/Poly(lactic acid) Based Bio-nanocomposites: Morphological, Structural, Thermal and Rheological Properties. <i>Waste and Biomass Valorization</i> , <b>2019</b> , 10, 3197-3211	3.2	10
32	Synthesis of novel magnetic carbon nano-composite from waste biomass: A comparative study of industrially adoptable hydro/solvothermal co-precipitation route. <i>Journal of Environmental Chemical Engineering</i> , <b>2020</b> , 8, 103519	6.8	10

31	Promoting sustainability of use of biomass as energy resource: Pakistan's perspective. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 29606-29619	5.1	9
30	Improving fermentation industry sludge treatment as well as energy production with constructed dual chamber microbial fuel cell. <i>SN Applied Sciences</i> , <b>2020</b> , 2, 1	1.8	9
29	Potential of polylactide based nanocomposites-nanopolysaccharide filler for reinforcement purpose: a comprehensive review. <i>Journal of Polymer Research</i> , <b>2020</b> , 27, 1	2.7	9
28	Thermogravimetric pyrolysis for neem char using novel agricultural waste: a study of process optimization and statistical modeling. <i>Biomass Conversion and Biorefinery</i> , <b>2018</b> , 8, 857-871	2.3	9
27	Photocatalytic degradation of methyl orange from wastewater using a newly developed Fe-Cu-Zn-ZSM-5 catalyst. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 26239-26248	5.1	8
26	An overview of OPS from oil palm industry as feedstock for bio-oil production. <i>Biomass Conversion and Biorefinery</i> , <b>2019</b> , 9, 827-841	2.3	7
25	Utilization of Distillery Effluent as Substrate for Power Generation with Optimized Parametric Conditions using Microbial Fuel Cell. <i>Eurasian Journal of Analytical Chemistry</i> , <b>2018</b> , 13,		6
24	A review on extractive fermentation via ion exchange adsorption resins opportunities, challenges, and future prospects. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	6
23	Adsorptive Removal of Methylene Blue Using Magnetic Biochar Derived from Agricultural Waste Biomass: Equilibrium, Isotherm, Kinetic Study. <i>International Journal of Nanoscience</i> , <b>2018</b> , 17, 1850002	0.6	6
22	Dual-application of novel magnetic carbon nanocomposites as catalytic liquefaction for bio-oil synthesis and multi-heavy metal adsorption. <i>Renewable Energy</i> , <b>2021</b> , 172, 1103-1119	8.1	6
21	Carbon and polymer-based magnetic nanocomposites for oil-spill remediation-a comprehensive review. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 54477-54496	5.1	6
20	Sustainable Polymers from Recycled Waste Plastics and Their Virgin Counterparts as Bitumen Modifiers: A Comprehensive Review. <i>Polymers</i> , <b>2021</b> , 13,	4.5	6
19	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. <i>Science of the Total Environment</i> , <b>2021</b> , 778, 146187	10.2	5
18	Thermal Properties of Sustainable Thermoplastics Nanocomposites Containing Nanofillers and Its Recycling Perspective <b>2019</b> , 915-933		5
17	Prediction of thermo-physical properties of 1-Butyl-3-methylimidazolium hexafluorophosphate for CO <sub>2</sub> capture using machine learning models. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 327, 114785	6	5
16	Recent developments and progress of aerogel assisted environmental remediation: a review. <i>Journal of Porous Materials</i> , <b>2021</b> , 28, 1919	2.4	5
15	The effect of KOH activation and Ag nanoparticle incorporation on rice husk-based porous materials for wastewater treatment. <i>Chemosphere</i> , <b>2021</b> , 132760	8.4	4
14	Combined Impact of Ultrasound Pre-treatment and Hydrodistillation on Bioactive Compounds and GCMS Analysis of Cinnamomum cassia Bark Extract. <i>Waste and Biomass Valorization</i> , <b>2021</b> , 12, 807-821	3.2	4

13	Extractive desulfurization of gasoline using binary solvent of bronsted-based ionic liquids and non-volatile organic compound. <i>Chemical Papers</i> , <b>2019</b> , 73, 2757-2765	1.9	3
12	Utilization of oil palm fronds for bio-oil and bio-char production using hydrothermal liquefaction technology. <i>Biomass Conversion and Biorefinery</i> , <b>2019</b> , 11, 1465	2.3	3
11	An overview of effect of process parameters for removal of CO2 using biomass-derived adsorbents. <i>Biomass Conversion and Biorefinery</i> , <b>2019</b> , 11, 1465	2.3	3
10	Thermal, mechanical, rheological, electrical and electromagnetic interference shielding performance of polypropylene/magnetic carbon nanocomposites. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105447	6.8	3
9	Performance of waste plastic bio-oil as a rejuvenator for asphalt binder.. <i>Science of the Total Environment</i> , <b>2022</b> , 828, 154489	10.2	3
8	Experimental investigation of physicochemical, thermal, mechanical and rheological properties of polylactide/rice straw hydrochar composite. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 106011	6.8	2
7	Integrated treatment of food waste with wastewater and sewage sludge: Energy and carbon footprint analysis with economic implications.. <i>Science of the Total Environment</i> , <b>2022</b> , 154052	10.2	1
6	The Effects of Using Pretreated Cotton Gin Trash on the Production of Biogas from Anaerobic Co-Digestion with Cow Manure and Sludge. <i>Energies</i> , <b>2022</b> , 15, 490	3.1	0
5	Thermo-mechanical, rheological, and chemical properties of recycled plastics <b>2022</b> , 29-42		0
4	Hydrothermal carbonization of oil palm trunk via taguchi method. <i>Korean Journal of Chemical Engineering</i> , <b>2021</b> , 38, 797-806	2.8	0
3	Future development, prospective, and challenges in the application of green nanocomposites in environmental remediation <b>2022</b> , 483-511		
2	Pyrolysis of ionic liquid pretreated lignite: Effect of 1-butyl-3-methylimidazolium methyl sulfate pretreatment on kinetic and thermodynamic parameters of lignite. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2021</b> , 1-17	1.6	
1	Process optimization and empirical model development for lignocellulosic biomass via gravimetric analysis. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 10, 447-461	2.3	