Nizamuddin Sabzoi

List of Publications by Year
in descending order

67	3,151	172207	161609
papers	citations	29 h-index	54 g-index

67	67	67	2934
all docs	docs citations	times ranked	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.	8.2	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.	6.5	223
3	Chemical, dielectric and structural characterization of optimized hydrochar produced from hydrothermal carbonization of palm shell. Fuel, 2016, 163, 88-97.	3.4	161
4	Recent advances in production and upgrading of bio-oil from biomass: A critical overview. Journal of Environmental Chemical Engineering, 2018, 6, 5101-5118.	3.3	158
5	Nanomaterials: Applications, waste-handling, environmental toxicities, and future challenges â€“ A review. Journal of Environmental Chemical Engineering, 2021, 9, 105028.	3.3	133
6	Magnetic nanoadsorbentsâ€™ potential route for heavy metals removalâ€”a review. Environmental Science and Pollution Research, 2020, 27, 24342-24356.	2.7	127
7	Waste materials for wastewater treatment and waste adsorbents for biofuel and cement supplement applications: A critical review. Journal of Cleaner Production, 2020, 255, 120261.	4.6	124
8	Study of diesel engine characteristics by adding nanosized zinc oxide and diethyl ether additives in Mahua biodieselâ€“diesel fuel blend. Scientific Reports, 2020, 10, 15326.	1.6	89
9	An overview of microwave hydrothermal carbonization and microwave pyrolysis of biomass. Reviews in Environmental Science and Biotechnology, 2018, 17, 813-837.	3.9	82
10	Magnetic nanoparticles incorporation into different substrates for dyes and heavy metals removalâ€”A Review. Environmental Science and Pollution Research, 2020, 27, 43526-43541.	2.7	82
11	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.	1.8	79
12	Synthesis and characterization of rice husk biochar via hydrothermal carbonization for wastewater treatment and biofuel production. Scientific Reports, 2020, 10, 18851.	1.6	76
13	Hydrothermal carbonization of oil palm shell. Korean Journal of Chemical Engineering, 2015, 32, 1789-1797.	1.2	72
14	Synthesis of magnetic carbon nanocomposites by hydrothermal carbonization and pyrolysis. Environmental Chemistry Letters, 2018, 16, 821-844.	8.3	72
15	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.	2.9	72
16	Fabrication of advance magnetic carbon nano-materials and their potential applications: A review. Journal of Environmental Chemical Engineering, 2019, 7, 102812.	3.3	71
17	Synthesis and characterization of polylactide/rice husk hydrochar composite. Scientific Reports, 2019, 9, 5445.	1.6	70
18	Effect of acid catalysts on hydrothermal carbonization of Malaysian oil palm residues (leaves, fronds,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.9	69

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19	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.	2.7	66
20	Synthesis and characterization of hydrochars produced by hydrothermal carbonization of oil palm shell. Canadian Journal of Chemical Engineering, 2015, 93, 1916-1921.	0.9	65
21	Advanced microbial fuel cell for waste water treatmentâ€"a review. Environmental Science and Pollution Research, 2021, 28, 5005-5019.	2.7	63
22	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.	2.3	59
23	A critical analysis on palm kernel shell from oil palm industry as a feedstock for solid char production. Reviews in Chemical Engineering, 2016, 32, 489-505.	2.3	55
24	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.	3.3	49
25	Microwave Hydrothermal Carbonization of Rice Straw: Optimization of Process Parameters and Upgrading of Chemical, Fuel, Structural and Thermal Properties. Materials, 2019, 12, 403.	1.3	45
26	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.	2.3	38
27	Magnetic nanocomposites for sustainable water purificationâ€"a comprehensive review. Environmental Science and Pollution Research, 2021, 28, 19563-19588.	2.7	38
28	Sustainable Polymers from Recycled Waste Plastics and Their Virgin Counterparts as Bitumen Modifiers: A Comprehensive Review. Polymers, 2021, 13, 3242.	2.0	37
29	Parametric study of co-gasification of ternary blends of rice straw, polyethylene and polyvinylchloride. Clean Technologies and Environmental Policy, 2016, 18, 1031-1042.	2.1	31
30	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.	2.3	31
31	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.	2.7	26
32	Carbon and polymer-based magnetic nanocomposites for oil-spill remediationâ€"a comprehensive review. Environmental Science and Pollution Research, 2021, 28, 54477-54496.	2.7	24
33	Solvothermal Liquefaction of Corn Stalk: Physico-Chemical Properties of Bio-oil and Biochar. Waste and Biomass Valorization, 2019, 10, 1957-1968.	1.8	23
34	Potential of polylactide based nanocomposites-nanopolysaccharide filler for reinforcement purpose: a comprehensive review. Journal of Polymer Research, 2020, 27, 1.	1.2	23
35	Performance of waste plastic bio-oil as a rejuvenator for asphalt binder. Science of the Total Environment, 2022, 828, 154489.	3.9	23
36	Advanced Nanomaterials Synthesis from Pyrolysis and Hydrothermal Carbonization: A Review. Current Organic Chemistry, 2018, 22, 446-461.	0.9	22

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37	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.	3.3	22
38	Promoting sustainability of use of biomass as energy resource: Pakistanâ€™s perspective. Environmental Science and Pollution Research, 2019, 26, 29606-29619.	2.7	20
39	Recent developments and progress of aerogel assisted environmental remediation: a review. Journal of Porous Materials, 2021, 28, 1919-1933.	1.3	18
40	Integrated treatment of food waste with wastewater and sewage sludge: Energy and carbon footprint analysis with economic implications. Science of the Total Environment, 2022, 825, 154052.	3.9	17
41	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.	3.3	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.	4.3	15
43	An overview of OPS from oil palm industry as feedstock for bio-oil production. Biomass Conversion and Biorefinery, 2019, 9, 827-841.	2.9	14
44	Improving fermentation industry sludge treatment as well as energy production with constructed dual chamber microbial fuel cell. SN Applied Sciences, 2020, 2, 1.	1.5	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.	2.9	14
46	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.	2.9	13
47	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.	2.7	13
48	Experimental investigation of physicochemical, thermal, mechanical and rheological properties of polylactide/rice straw hydrochar composite. Journal of Environmental Chemical Engineering, 2021, 9, 106011.	3.3	13
49	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.	1.8	12
50	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.	3.9	12
51	Thermal, mechanical, rheological, electrical and electromagnetic interference shielding performance of polypropylene/magnetic carbon nanocomposites. Journal of Environmental Chemical Engineering, 2021, 9, 105447.	3.3	12
52	Utilization of Distillery Effluent as Substrate for Power Generation with Optimized Parametric Conditions using Microbial Fuel Cell. Eurasian Journal of Analytical Chemistry, 2018, 13, .	0.4	12
53	Parametric study of pyrolysis and steam gasification of rice straw in presence of K2CO3. Korean Journal of Chemical Engineering, 2016, 33, 2567-2574.	1.2	11
54	Utilization of oil palm fronds for bio-oil and bio-char production using hydrothermal liquefaction technology. Biomass Conversion and Biorefinery, 2021, 11, 1465-1473.	2.9	10

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55	Combined Impact of Ultrasound Pre-treatment and Hydrodistillation on Bioactive Compounds and GCâ€“MS Analysis of Cinnamomum cassia Bark Extract. Waste and Biomass Valorization, 2021, 12, 807-821.	1.8	10
56	The effect of KOH activation and Ag nanoparticle incorporation on rice husk-based porous materials for wastewater treatment. Chemosphere, 2022, 291, 132760.	4.2	9
57	Adsorptive Removal of Methylene Blue Using Magnetic Biochar Derived from Agricultural Waste Biomass: Equilibrium, Isotherm, Kinetic Study. International Journal of Nanoscience, 2018, 17, 1850002.	0.4	8
58	Hydrothermal carbonization of oil palm trunk via taguchi method. Korean Journal of Chemical Engineering, 2021, 38, 797-806.	1.2	8
59	Extractive desulfurization of gasoline using binary solvent of bronsted-based ionic liquids and non-volatile organic compound. Chemical Papers, 2019, 73, 2757-2765.	1.0	7
60	An overview of effect of process parameters for removal of CO2 using biomass-derived adsorbents. Biomass Conversion and Biorefinery, 2023, 13, 4495-4513.	2.9	6
61	Thermal Properties of Sustainable Thermoplastics Nanocomposites Containing Nanofillers and Its Recycling Perspective. , 2019, , 915-933.		5
62	Thermo-mechanical, rheological, and chemical properties of recycled plastics. , 2022, , 29-42.		3
63	Separation of propylene and propane by functional mixture of imidazolium thiocyanate ionic liquidâ€organic solventâ€cuprous salt. Canadian Journal of Chemical Engineering, 2021, 99, .	0.9	2
64	The Effects of Using Pretreated Cotton Gin Trash on the Production of Biogas from Anaerobic Co-Digestion with Cow Manure and Sludge. Energies, 2022, 15, 490.	1.6	2
65	Future development, prospective, and challenges in the application of green nanocomposites in environmental remediation. , 2022, , 483-511.		2
66	Process optimization and empirical model development for lignocellulosic biomass via gravimetric analysis. Biomass Conversion and Biorefinery, 2020, 10, 447-461.	2.9	0
67	Pyrolysis of ionic liquid pretreated lignite: Effect of 1-butyl-3-methylimidazolium methyl sulfate pretreatment on kinetic and thermodynamic parameters of lignite. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-17.	1.2	0