Humair Ahmed Baloch

List of Publications by Citations

41 papers	939 citations	15 h-index	30 g-index
41 ext. papers	1,278 ext. citations	5.7 avg, IF	4.5 L-index

#	Paper	IF	Citations
41	An overview of effect of process parameters on hydrothermal carbonization of biomass. *Renewable and Sustainable Energy Reviews*, **2017**, 73, 1289-1299	16.2	224
40	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
39	Graphene based nanomaterials for strain sensor application review. *Journal of Environmental Chemical Engineering*, **2020**, 8, 103743	6.8	63
38	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
37	Synthesis of magnetic carbon nanocomposites by hydrothermal carbonization and pyrolysis. *Environmental Chemistry Letters*, **2018**, 16, 821-844	13.3	48
36	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
35	Fabrication of advance magnetic carbon nano-materials and their potential applications: A review. *Journal of Environmental Chemical Engineering*, **2019**, 7, 102812	6.8	43
34	An overview of microwave hydrothermal carbonization and microwave pyrolysis of biomass. *Reviews in Environmental Science and Biotechnology*, **2018**, 17, 813-837	13.9	43
33	Synthesis and characterization of polylactide/rice husk hydrochar composite. *Scientific Reports*, **2019**, 9, 5445	4.9	42
32	Iron Oxide Nanomaterials for the Removal of Heavy Metals and Dyes From Wastewater **2019**, 447-472		31
31	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
30	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
29	Advanced Nanomaterials Synthesis from Pyrolysis and Hydrothermal Carbonization: A Review. *Current Organic Chemistry*, **2018**, 22, 446-461	1.7	19
28	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
27	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
26	Solvothermal Liquefaction of Corn Stalk: Physico-Chemical Properties of Bio-oil and Biochar. *Waste and Biomass Valorization*, **2019**, 10, 1957-1968	3.2	15
25	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

24	Hydrogen-rich syngas production from municipal solid waste gasification through the application of central composite design: An optimization study. *International Journal of Hydrogen Energy*, **2020**, 45, 33260-33273	6.7	11
23	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
22	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
21	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
20	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
19	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
18	Immobilization of Lipase Enzyme Carbon Nanotubes via Adsorption. *IOP Conference Series: Materials Science and Engineering*, **2019**, 495, 012055	0.4	6
17	A review on extractive fermentation via ion exchange adsorption resins opportunities, challenges, and future prospects. *Biomass Conversion and Biorefinery*,1	2.3	6
16	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
15	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
14	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
13	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
12	Electrical Properties of Sustainable Nano-Composites Containing Nano-Fillers: Dielectric Properties and Electrical Conductivity **2019**, 899-914		3
11	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
10	Hydrothermal co-liquefaction of rice straw and waste cooking-oil model compound for bio-crude production. *Journal of Analytical and Applied Pyrolysis*, **2021**, 160, 105360	6	3
9	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
8	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
7	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

6	Performance of waste plastic bio-oil as a rejuvenator for asphalt binder.. *Science of the Total Environment*, **2022**, 828, 154489	10.2	3
5	Microwave-Assisted Synthesis for Carbon Nanomaterials **2019**, 121-147		2
4	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
3	Hydrothermal co-liquefaction of rice straw and Nannochloropsis: the interaction effect on mechanism, product distribution and composition. *Journal of Analytical and Applied Pyrolysis*, **2021**, 161, 105368	6	1
2	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
1	Hydrothermal carbonization of oil palm trunk via taguchi method. *Korean Journal of Chemical Engineering*, **2021**, 38, 797-806	2.8	0