

M Toufiq Reza

List of Publications by Year in descending order

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71
papers

3,712
citations

159358

30
h-index

128067

60
g-index

71
all docs

71
docs citations

71
times ranked

2685
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrothermal carbonization: Fate of inorganics. <i>Biomass and Bioenergy</i> , 2013, 49, 86-94.	2.9	381
2	Hydrothermal Carbonization of Biomass for Energy and Crop Production. <i>Applied Bioenergy</i> , 2014, 1, .	4.3	259
3	Hydrothermal carbonization (HTC) of wheat straw: Influence of feedwater pH prepared by acetic acid and potassium hydroxide. <i>Bioresource Technology</i> , 2015, 182, 336-344.	4.8	256
4	Characterization of products from hydrothermal carbonization of orange pomace including anaerobic digestibility of process liquor. <i>Bioresource Technology</i> , 2015, 196, 35-42.	4.8	191
5	Hydrothermal carbonization of loblolly pine: reaction chemistry and water balance. <i>Biomass Conversion and Biorefinery</i> , 2014, 4, 311-321.	2.9	183
6	Reaction kinetics of hydrothermal carbonization of loblolly pine. <i>Bioresource Technology</i> , 2013, 139, 161-169.	4.8	171
7	Pelletization of biochar from hydrothermally carbonized wood. <i>Environmental Progress and Sustainable Energy</i> , 2012, 31, 225-234.	1.3	143
8	Behavior of selected hydrolyzed and dehydrated products during hydrothermal carbonization of biomass. <i>Bioresource Technology</i> , 2014, 169, 352-361.	4.8	131
9	Pyrolysis of hydrochar from digestate: Effect of hydrothermal carbonization and pyrolysis temperatures on pyrochar formation. <i>Bioresource Technology</i> , 2016, 220, 168-174.	4.8	128
10	Engineered pellets from dry torrefied and HTC biochar blends. <i>Biomass and Bioenergy</i> , 2014, 63, 229-238.	2.9	121
11	Effect of hydrothermal carbonization temperature on pH, dissociation constants, and acidic functional groups on hydrochar from cellulose and wood. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 137, 138-145.	2.6	121
12	Hydrothermal carbonization of various lignocellulosic biomass. <i>Biomass Conversion and Biorefinery</i> , 2015, 5, 173-181.	2.9	104
13	Hydrothermal carbonization (HTC) of cow manure: Carbon and nitrogen distributions in HTC products. <i>Environmental Progress and Sustainable Energy</i> , 2016, 35, 1002-1011.	1.3	100
14	Effect of salt addition on hydrothermal carbonization of lignocellulosic biomass. <i>Fuel</i> , 2012, 99, 271-273.	3.4	85
15	Hydrothermal carbonization (HTC): Near infrared spectroscopy and partial least-squares regression for determination of selective components in HTC solid and liquid products derived from maize silage. <i>Bioresource Technology</i> , 2014, 161, 91-101.	4.8	74
16	Pretreatment of rice hulls by ionic liquid dissolution. <i>Bioresource Technology</i> , 2012, 114, 629-636.	4.8	72
17	Co-Hydrothermal Carbonization of coal-biomass blend: Influence of temperature on solid fuel properties. <i>Fuel Processing Technology</i> , 2017, 167, 711-720.	3.7	65
18	Characterization of hydrochar obtained from hydrothermal carbonization of wheat straw digestate. <i>Biomass Conversion and Biorefinery</i> , 2015, 5, 425-435.	2.9	56

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19	Cationic Dye Adsorption on Hydrochars of Winery and Citrus Juice Industries Residues: Performance, Mechanism, and Thermodynamics. <i>Energies</i> , 2020, 13, 4686.	1.6	55
20	Hydrothermal Carbonization of Digestate in the Presence of Zeolite: Process Efficiency and Composite Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2967-2974.	3.2	53
21	Hydrothermal Carbonization of Autoclaved Municipal Solid Waste Pulp and Anaerobically Treated Pulp Digestate. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 3649-3658.	3.2	49
22	Effect of Pyrolysis Temperature on Acidic Oxygen-Containing Functional Groups and Electron Storage Capacities of Pyrolyzed Hydrochars. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 8387-8396.	3.2	47
23	Wet Air Oxidation of Hydrothermal Carbonization (HTC) Process Liquid. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 3250-3254.	3.2	45
24	Hydrothermal Carbonization (HTC) and Pelletization of Two Arid Land Plants Bagasse for Energy Densification. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1106-1114.	3.2	45
25	Effects of water recycling in hydrothermal carbonization of loblolly pine. <i>Environmental Progress and Sustainable Energy</i> , 2014, 33, 1309-1315.	1.3	44
26	Techno-Economic Assessment of Co-Hydrothermal Carbonization of a Coal-Miscanthus Blend. <i>Energies</i> , 2019, 12, 630.	1.6	44
27	Production, characterization, and biogas application of magnetic hydrochar from cellulose. <i>Bioresource Technology</i> , 2015, 186, 34-43.	4.8	40
28	Hydrothermal Carbonization of Various Paper Mill Sludges: An Observation of Solid Fuel Properties. <i>Energies</i> , 2019, 12, 858.	1.6	38
29	Hydrothermal carbonization of food waste: simplified process simulation model based on experimental results. <i>Biomass Conversion and Biorefinery</i> , 2018, 8, 283-292.	2.9	35
30	Recovery of Macro and Micro-Nutrients by Hydrothermal Carbonization of Septage. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 1854-1862.	2.4	32
31	Assessment of mutagenic potential of pyrolysis biochars by Ames Salmonella/mammalian-microsomal mutagenicity test. <i>Ecotoxicology and Environmental Safety</i> , 2014, 107, 306-312.	2.9	30
32	Liquidâ€“Liquid Extraction of Furfural from Water by Hydrophobic Deep Eutectic Solvents: Improvement of Density Function Theory Modeling with Experimental Validations. <i>ACS Omega</i> , 2020, 5, 22305-22313.	1.6	28
33	Continuous Anaerobic Degradation of Liquid Condensate from Steam-Derived Hydrothermal Carbonization of Sewage Sludge. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1673-1678.	3.2	27
34	Formation of Carbon Quantum Dots via Hydrothermal Carbonization: Investigate the Effect of Precursors. <i>Energies</i> , 2021, 14, 986.	1.6	27
35	Co-hydrothermal carbonization of coal waste and food waste: fuel characteristics. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 3-13.	2.9	25
36	Hydrothermal Liquefaction of Loblolly Pine: Effects of Various Wastes on Produced Biocrude. <i>ACS Omega</i> , 2018, 3, 3051-3059.	1.6	24

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37	A steady-state equilibrium-based carbon dioxide gasification simulation model for hydrothermally carbonized cow manure. <i>Energy Conversion and Management</i> , 2019, 191, 12-22.	4.4	24
38	Technoeconomic analysis of co-hydrothermal carbonization of coal waste and food waste. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 39-49.	2.9	23
39	Elucidating hydrochar morphology and oxygen functionality change with hydrothermal treatment temperature ranging from subcritical to supercritical conditions. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 152, 104965.	2.6	22
40	Effects of process liquid recirculation on material properties of hydrochar and corresponding adsorption of cationic dye. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022, 161, 105418.	2.6	20
41	Pyrolysis Creates Electron Storage Capacity of Black Carbon (Biochar) from Lignocellulosic Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 6821-6831.	3.2	19
42	Hydrothermal Carbonization of Lignocellulosic Biomass. <i>Green Chemistry and Sustainable Technology</i> , 2014, , 275-311.	0.4	18
43	Synopsis of Factors Affecting Hydrogen Storage in Biomass-Derived Activated Carbons. <i>Sustainability</i> , 2021, 13, 1947.	1.6	18
44	Upcycling simulated food wastes into superactivated hydrochar for remarkable hydrogen storage. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 159, 105322.	2.6	18
45	Algal Remediation of Wastewater Produced from Hydrothermally Treated Septage. <i>Sustainability</i> , 2019, 11, 3454.	1.6	17
46	Investigation of hydrothermal carbonization and chemical activation process conditions on hydrogen storage in loblolly pine-derived superactivated hydrochars. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 26422-26434.	3.8	17
47	Enhancement of energy and combustion properties of hydrochar via citric acid catalysed secondary char production. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 10527-10538.	2.9	16
48	Optical texture of hydrochar from maize silage and maize silage digestate. <i>International Journal of Coal Geology</i> , 2014, 134-135, 74-79.	1.9	13
49	Evaluation of Integrated Anaerobic Digestion and Hydrothermal Carbonization for Bioenergy Production. <i>Journal of Visualized Experiments</i> , 2014, , .	0.2	13
50	Hydrothermal carbonization of glucose in saline solution: sequestration of nutrients on carbonaceous materials. <i>AIMS Energy</i> , 2016, 4, 173-189.	1.1	13
51	Pretreatment of Biomass by Selected Type-III Deep Eutectic Solvents and Evaluation of the Pretreatment Effects on Hydrothermal Carbonization. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 15479-15491.	1.8	12
52	Ash reduction of corn stover by mild hydrothermal preprocessing. <i>Biomass Conversion and Biorefinery</i> , 2014, 5, 21.	2.9	11
53	Behavior of Stable Carbon and Stable Nitrogen Isotopes during Hydrothermal Carbonization of biomass. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 131, 85-92.	2.6	11
54	Pyrolysis and carbon dioxide gasification kinetics of hydrochar produced from cow manure. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, 154-162.	1.3	11

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55	Integration of Air Classification and Hydrothermal Carbonization to Enhance Energy Recovery of Corn Stover. <i>Energies</i> , 2021, 14, 1397.	1.6	10
56	Techno-economic assessment of superactivated hydrochar production by KOH impregnation compared to direct chemical activation. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	2.9	10
57	Systems Analysis of SO ₂ -CO ₂ Co-Capture from a Post-Combustion Coal-Fired Power Plant in Deep Eutectic Solvents. <i>Energies</i> , 2020, 13, 438.	1.6	8
58	Assessing hydrothermal carbonization as sustainable home sewage management for rural counties: A case study from Appalachian Ohio. <i>Science of the Total Environment</i> , 2021, 781, 146648.	3.9	8
59	Application of biosorbents for ion removal from sodium lactate fermentation broth. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 10-19.	3.3	7
60	Effect of pyrolysis on basic functional groups of hydrochars. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 1117-1124.	2.9	6
61	Transformation of Sulfur during Co-Hydrothermal Carbonization of Coal Waste and Food Waste. <i>Energies</i> , 2021, 14, 2271.	1.6	6
62	Carbon Capture from Biogas by Deep Eutectic Solvents: A COSMO Study to Evaluate the Effect of Impurities on Solubility and Selectivity. <i>Clean Technologies</i> , 2021, 3, 490-502.	1.9	6
63	Binder-free torrefied biomass pellets: significance of torrefaction temperature and pelletization parameters by multivariate analysis. <i>Biomass Conversion and Biorefinery</i> , 2020, , 1.	2.9	4
64	Preliminary safety evaluation of solvothermal liquefaction of plastic wastes using toluene as solvent. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 801-813.	2.1	4
65	Towards solvothermal upcycling of mixed plastic wastes: Depolymerization pathways of waste plastics in sub- and supercritical toluene. <i>Energy Conversion and Management: X</i> , 2022, 13, 100158.	0.9	4
66	Blending hydrochar improves hydrophobic properties of corn stover pellets. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	2.9	4
67	Challenges and process economics for algal carbon capture with novel integration: Hydrothermal carbonization. <i>Bioresource Technology Reports</i> , 2020, 12, 100556.	1.5	3
68	Hydrothermal degradation of ¹⁷ O-estradiol and oxytetracycline at selective reaction severities. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	3
69	Effect of supercritical water temperature and Pd/C catalyst on upgrading fuel characteristics of gumweed-derived solvent-extracted biocrude. <i>Biomass Conversion and Biorefinery</i> , 2020, , 1.	2.9	2
70	Liquid-Liquid Equilibrium of Deep Eutectic Solvent-Aromatic-Aliphatic Ternary Systems: Experimental Study with COSMO Model Predictions. <i>Processes</i> , 2021, 9, 1169.	1.3	2
71	Correction: Hydrothermal carbonization of glucose in saline solution: sequestration of nutrients on carbonaceous materials. <i>AIMS Energy</i> , 2018, 6, 269-271.	1.1	0