

# M Toufiq Reza

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69 papers	2,653 citations	26 h-index	51 g-index
71 ext. papers	3,163 ext. citations	5.1 avg, IF	5.66 L-index

#	Paper	IF	Citations
69	Towards solvothermal upcycling of mixed plastic wastes: Depolymerization pathways of waste plastics in sub- and supercritical toluene. <i>Energy Conversion and Management: X</i> , <b>2022</b> , 13, 100158	2.5	1
68	Effects of process liquid recirculation on material properties of hydrochar and corresponding adsorption of cationic dye. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2022</b> , 161, 105418	6	1
67	Integration of Air Classification and Hydrothermal Carbonization to Enhance Energy Recovery of Corn Stover. <i>Energies</i> , <b>2021</b> , 14, 1397	3.1	2
66	Transformation of Sulfur during Co-Hydrothermal Carbonization of Coal Waste and Food Waste. <i>Energies</i> , <b>2021</b> , 14, 2271	3.1	2
65	Pyrolysis Creates Electron Storage Capacity of Black Carbon (Biochar) from Lignocellulosic Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 6821-6831	8.3	3
64	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> , <b>2021</b> , 3, 490-502	3.4	1
63	Liquid-Liquid Equilibrium of Deep Eutectic Solvent-Aromatic-Aliphatic Ternary Systems: Experimental Study with COSMO Model Predictions. <i>Processes</i> , <b>2021</b> , 9, 1169	2.9	
62	Formation of Carbon Quantum Dots via Hydrothermal Carbonization: Investigate the Effect of Precursors. <i>Energies</i> , <b>2021</b> , 14, 986	3.1	10
61	Synopsis of Factors Affecting Hydrogen Storage in Biomass-Derived Activated Carbons. <i>Sustainability</i> , <b>2021</b> , 13, 1947	3.6	4
60	Assessing hydrothermal carbonization as sustainable home sewage management for rural counties: A case study from Appalachian Ohio. <i>Science of the Total Environment</i> , <b>2021</b> , 781, 146648	10.2	4
59	Upcycling simulated food wastes into superactivated hydrochar for remarkable hydrogen storage. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2021</b> , 159, 105322	6	1
58	Co-hydrothermal carbonization of coal waste and food waste: fuel characteristics. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 1	2.3	15
57	Technoeconomic analysis of co-hydrothermal carbonization of coal waste and food waste. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 1	2.3	8
56	Systems Analysis of SO <sub>2</sub> -CO <sub>2</sub> Co-Capture from a Post-Combustion Coal-Fired Power Plant in Deep Eutectic Solvents. <i>Energies</i> , <b>2020</b> , 13, 438	3.1	4
55	Binder-free torrefied biomass pellets: significance of torrefaction temperature and pelletization parameters by multivariate analysis. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 1	2.3	3
54	Cationic Dye Adsorption on Hydrochars of Winery and Citrus Juice Industries Residues: Performance, Mechanism, and Thermodynamics. <i>Energies</i> , <b>2020</b> , 13, 4686	3.1	26
53	Challenges and process economics for algal carbon capture with novel integration: Hydrothermal carbonization. <i>Bioresource Technology Reports</i> , <b>2020</b> , 12, 100556	4.1	2

52	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> , <b>2020</b> , 1	2.3	0
51	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> , <b>2020</b> , 152, 104965	6	3
50	Liquid-Liquid Extraction of Furfural from Water by Hydrophobic Deep Eutectic Solvents: Improvement of Density Function Theory Modeling with Experimental Validations. <i>ACS Omega</i> , <b>2020</b> , 5, 22305-22313	3.9	10
49	Hydrothermal degradation of Estradiol and oxytetracycline at selective reaction severities. <i>SN Applied Sciences</i> , <b>2020</b> , 2, 1	1.8	2
48	Effect of pyrolysis on basic functional groups of hydrochars. <i>Biomass Conversion and Biorefinery</i> , <b>2019</b> , 11, 1117	2.3	2
47	A steady-state equilibrium-based carbon dioxide gasification simulation model for hydrothermally carbonized cow manure. <i>Energy Conversion and Management</i> , <b>2019</b> , 191, 12-22	10.6	18
46	Effect of Pyrolysis Temperature on Acidic Oxygen-Containing Functional Groups and Electron Storage Capacities of Pyrolyzed Hydrochars. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 8387-8396	8.3	28
45	Techno-Economic Assessment of Co-Hydrothermal Carbonization of a Coal-Miscanthus Blend. <i>Energies</i> , <b>2019</b> , 12, 630	3.1	29
44	Hydrothermal Carbonization of Various Paper Mill Sludges: An Observation of Solid Fuel Properties. <i>Energies</i> , <b>2019</b> , 12, 858	3.1	23
43	Pyrolysis and carbon dioxide gasification kinetics of hydrochar produced from cow manure. <i>Environmental Progress and Sustainable Energy</i> , <b>2019</b> , 38, 154-162	2.5	9
42	Algal Remediation of Wastewater Produced from Hydrothermally Treated Septage. <i>Sustainability</i> , <b>2019</b> , 11, 3454	3.6	12
41	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> , <b>2019</b> , 137, 138-145	6	63
40	Behavior of Stable Carbon and Stable Nitrogen Isotopes during Hydrothermal Carbonization of biomass. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2018</b> , 131, 85-92	6	10
39	Recovery of Macro and Micro-Nutrients by Hydrothermal Carbonization of Septage. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 1854-1862	5.7	21
38	Hydrothermal Liquefaction of Loblolly Pine: Effects of Various Wastes on Produced Biocrude. <i>ACS Omega</i> , <b>2018</b> , 3, 3051-3059	3.9	17
37	Hydrothermal carbonization of food waste: simplified process simulation model based on experimental results. <i>Biomass Conversion and Biorefinery</i> , <b>2018</b> , 8, 283-292	2.3	25
36	Correction: Hydrothermal carbonization of glucose in saline solution: sequestration of nutrients on carbonaceous materials. <i>AIMS Energy</i> , <b>2018</b> , 6, 269-271	1.8	
35	Co-Hydrothermal Carbonization of coal-biomass blend: Influence of temperature on solid fuel properties. <i>Fuel Processing Technology</i> , <b>2017</b> , 167, 711-720	7.2	38

34	Pyrolysis of hydrochar from digestate: Effect of hydrothermal carbonization and pyrolysis temperatures on pyrochar formation. <i>Bioresource Technology</i> , <b>2016</b> , 220, 168-174	11	88
33	Hydrothermal carbonization (HTC) of cow manure: Carbon and nitrogen distributions in HTC products. <i>Environmental Progress and Sustainable Energy</i> , <b>2016</b> , 35, 1002-1011	2.5	75
32	Wet Air Oxidation of Hydrothermal Carbonization (HTC) Process Liquid. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 3250-3254	8.3	30
31	Hydrothermal Carbonization of Autoclaved Municipal Solid Waste Pulp and Anaerobically Treated Pulp Digestate. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 3649-3658	8.3	43
30	Continuous Anaerobic Degradation of Liquid Condensate from Steam-Derived Hydrothermal Carbonization of Sewage Sludge. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 1673-1678	8.3	22
29	Hydrothermal Carbonization (HTC) and Pelletization of Two Arid Land Plants Bagasse for Energy Densification. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 1106-1114	8.3	40
28	Application of biosorbents for ion removal from sodium lactate fermentation broth. <i>Journal of Environmental Chemical Engineering</i> , <b>2016</b> , 4, 10-19	6.8	5
27	Hydrothermal carbonization of glucose in saline solution: sequestration of nutrients on carbonaceous materials. <i>AIMS Energy</i> , <b>2016</b> , 4, 173-189	1.8	10
26	Characterization of products from hydrothermal carbonization of orange pomace including anaerobic digestibility of process liquor. <i>Bioresource Technology</i> , <b>2015</b> , 196, 35-42	11	151
25	Characterization of hydrochar obtained from hydrothermal carbonization of wheat straw digestate. <i>Biomass Conversion and Biorefinery</i> , <b>2015</b> , 5, 425-435	2.3	44
24	Production, characterization, and biogas application of magnetic hydrochar from cellulose. <i>Bioresource Technology</i> , <b>2015</b> , 186, 34-43	11	32
23	Hydrothermal carbonization (HTC) of wheat straw: influence of feedwater pH prepared by acetic acid and potassium hydroxide. <i>Bioresource Technology</i> , <b>2015</b> , 182, 336-344	11	179
22	Hydrothermal Carbonization of Digestate in the Presence of Zeolite: Process Efficiency and Composite Properties. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 2967-2974	8.3	42
21	Hydrothermal carbonization of various lignocellulosic biomass. <i>Biomass Conversion and Biorefinery</i> , <b>2015</b> , 5, 173-181	2.3	80
20	Hydrothermal carbonization of loblolly pine: reaction chemistry and water balance. <i>Biomass Conversion and Biorefinery</i> , <b>2014</b> , 4, 311-321	2.3	142
19	Optical texture of hydrochar from maize silage and maize silage digestate. <i>International Journal of Coal Geology</i> , <b>2014</b> , 134-135, 74-79	5.5	12
18	Behavior of selected hydrolyzed and dehydrated products during hydrothermal carbonization of biomass. <i>Bioresource Technology</i> , <b>2014</b> , 169, 352-361	11	104
17	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> , <b>2014</b> , 161, 91-101	11	57

16	Ash reduction of corn stover by mild hydrothermal preprocessing. <i>Biomass Conversion and Biorefinery</i> , <b>2014</b> , 5, 21	2.3	9
15	Engineered pellets from dry torrefied and HTC biochar blends. <i>Biomass and Bioenergy</i> , <b>2014</b> , 63, 229-238	5.3	109
14	Evaluation of integrated anaerobic digestion and hydrothermal carbonization for bioenergy production. <i>Journal of Visualized Experiments</i> , <b>2014</b> ,	1.6	13
13	Assessment of mutagenic potential of pyrolysis biochars by Ames Salmonella/mammalian-microsomal mutagenicity test. <i>Ecotoxicology and Environmental Safety</i> , <b>2014</b> , 107, 306-12	7	24
12	Hydrothermal Carbonization of Lignocellulosic Biomass. <i>Green Chemistry and Sustainable Technology</i> , <b>2014</b> , 275-311	1.1	16
11	Hydrothermal Carbonization of Biomass for Energy and Crop Production <b>2014</b> , 1,		207
10	Hydrothermal carbonization: Fate of inorganics. <i>Biomass and Bioenergy</i> , <b>2013</b> , 49, 86-94	5.3	298
9	Effects of water recycling in hydrothermal carbonization of loblolly pine. <i>Environmental Progress and Sustainable Energy</i> , <b>2013</b> , 33, n/a-n/a	2.5	22
8	Reaction kinetics of hydrothermal carbonization of loblolly pine. <i>Bioresource Technology</i> , <b>2013</b> , 139, 161-91	4.1	142
7	Pretreatment of rice hulls by ionic liquid dissolution. <i>Bioresource Technology</i> , <b>2012</b> , 114, 629-36	11	65
6	Effect of salt addition on hydrothermal carbonization of lignocellulosic biomass. <i>Fuel</i> , <b>2012</b> , 99, 271-273	7.1	70
5	Pelletization of biochar from hydrothermally carbonized wood. <i>Environmental Progress and Sustainable Energy</i> , <b>2012</b> , 31, 225-234	2.5	121
4	Techno-economic assessment of superactivated hydrochar production by KOH impregnation compared to direct chemical activation. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	0
3	Preliminary safety evaluation of solvothermal liquefaction of plastic wastes using toluene as solvent. <i>Clean Technologies and Environmental Policy</i> , 1	4.3	
2	Enhancement of energy and combustion properties of hydrochar via citric acid catalysed secondary char production. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	3
1	Blending hydrochar improves hydrophobic properties of corn stover pellets. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	0