Hydrothermal carbonization of biomass and waste: A re

Environmental Chemistry Letters 20, 211-221 DOI: 10.1007/s10311-021-01311-x

Citation Report

#	Article	IF	CITATIONS
1	Hydrothermal carbonization and Liquefaction: differences, progress, challenges, and opportunities. Bioresource Technology, 2022, 343, 126084.	9.6	134
2	Hydrothermal carbonization process: Fundamentals, main parameter characteristics and possible applications including an effective method of SARS-CoV-2 mitigation in sewage sludge. A review. Renewable and Sustainable Energy Reviews, 2022, 154, 111873.	16.4	63
3	Conversion of biomass waste to solid fuel via hydrothermal co-carbonization of distillers grains and sewage sludge. Bioresource Technology, 2022, 345, 126545.	9.6	25
4	Profitability analysis of thermochemical processes for biomass-waste valorization: a comparison of dry vs wet treatments. Science of the Total Environment, 2022, 811, 152240.	8.0	8
5	Enhancing biomethane production by biochar addition during anaerobic digestion is economically unprofitable. Environmental Chemistry Letters, 2022, 20, 991-997.	16.2	9
6	Pyrolysis to Produce Hydrochar and Biochar Carbon Material for Carbon Removal and Sustainable Environmental Technology. Handbook of Environmental Chemistry, 2022, , 1.	0.4	0
7	Computational Modeling Approaches of Hydrothermal Carbonization: A Critical Review. Energies, 2022, 15, 2209.	3.1	5
8	Effect of Ce in Ni10Cex/γ-Al2O3 for the in situ hydrodeoxidation of Tetra Pak bio-oil during hydrothermal liquefaction. Energy, 2022, 248, 123507.	8.8	3
9	Investigating the Enhancement in Biogas Production by Hydrothermal Carbonization of Organic Solid Waste and Digestate in an Inter-Stage Treatment Configuration. Processes, 2022, 10, 777.	2.8	4
10	Nitrogen self-doped hierarchical porous carbon via penicillin fermentation residue (PR) hydrothermal carbonization (HTC) and activation forÂsupercapacitance. Journal of Alloys and Compounds, 2022, 918, 165452.	5.5	14
11	Review of inventory data for the thermal treatment of sewage sludge. Waste Management, 2022, 146, 106-118.	7.4	13
12	Recent advances in hydrochar application for the adsorptive removal of wastewater pollutants. Chemical Engineering Research and Design, 2022, 184, 419-456.	5.6	62
13	Beyond aroma: A review on advanced extraction processes from rosemary (Rosmarinus officinalis) and sage (Salvia officinalis) to produce phenolic acids and diterpenes. Trends in Food Science and Technology, 2022, 127, 245-262.	15.1	13
14	Wood-derived biochar as thick electrodes for high-rate performance supercapacitors. Biochar, 2022, 4, .	12.6	65
15	Hydrothermal carbonization of food waste as sustainable energy conversion path. Bioresource Technology, 2022, 363, 127958.	9.6	28
16	Renewable biomass-derived carbon-based hosts for lithium–sulfur batteries. Sustainable Energy and Fuels, 2022, 6, 5211-5242	4.9	6
17	The kinetics of acetic acid steam reforming on Ni/Ca-Al2O3 catalyst. International Journal of Hydrogen Energy, 2022, 47, 35709-35722.	7.1	3
18	Densification of waste biomass for manufacturing solid biofuel pellets: a review. Environmental Chemistry Letters, 2023, 21, 231-264.	16.2	21

ARTICLE IF CITATIONS # Soybean Straw as a Feedstock for Value-Added Chemicals and Materials: Recent Trends and Emerging 19 3.9 7 Prospects. Bioenergy Research, 2023, 16, 717-740. Hydrothermal carbonization of sawdust with the bio-oil of same origin impacts evolution of structures of hydrochar. Fuel Processing Technology, 2022, 238, 107516. 7.2 Mercury adsorption and reduction by nonlinear optical material (NLOM) DMABR loaded on Sepiolite: A 21 12.7 3 mechanism study. Chemical Engineering Journal, 2023, 453, 139787. Surface functional groups and degree of carbonization of selected chars from different processes 2.5 and feedstock. PLoS ONE, 2022, 17, e0277365. Biomass-derived two-dimensional carbon materials: Synthetic strategies and electrochemical energy 23 5.6 9 storage applications. FlatChem, 2023, 37, 100467. A Life Cycle Assessment of the Combined Utilization of Biomass Waste-Derived Hydrochar as a Carbon Source and Soil Remediation. ACS ES&T Engineering, 2023, 3, 165-173. Adsorption of heavy metal onto biomass-derived activated carbon: review. RSC Advances, 2023, 13, 25 3.6 37 4275-4302. Catalytic hydrothermal carbonization of wet organic solid waste: A review. Science of the Total 8.0 19 26 Envirónment, 2023, 873, 162119. In-situ electrochemical oxidization of V2O3-C cathode for boosted zinc-ion storage performance. 27 6.1 1 Applied Surface Science, 2023, 616, 156481. Multiple roles of ferric chloride in preparing efficient magnetic hydrochar for sorption of methylene blue from water solutions. Bioresource Technology, 2023, 373, 128715. Release characteristics of hydrochar-derived dissolved organic matter: Effects of hydrothermal 29 7 8.2 temperature and environmental conditions. Chemosphere, 2023, 321, 138138. Effects of waste paper on fuel and mechanical properties of biogas digestate-derived briquettes. 4.6 Biomass Conversion and Biorefinery, 0, , . Thermochemical conversions of municipal solid waste into fuels and chemicals. Advances in $\mathbf{31}$ 1.3 1 Bioenergy, 2023, , 239-305. Evolution and Prospects of Hydrothermal Carbonization. Energies, 2023, 16, 3125. 3.1 Hydrothermal carbonization vs. anaerobic digestion to valorize fruit and vegetable waste: A 33 comparative technical and energy assessment. Journal of Environmental Chemical Engineering, 2023, 6.7 1 11, 109925. Progress in thermochemical co-processing of biomass and sludge for sustainable energy, value-added products and circular economy. Bioresource Technology, 2023, 380, 129061. Adsorption of lead ions and methylene blue on acrylate-modified hydrochars. Bioresource 35 9.6 15 Technology, 2023, 379, 129067. Digestate-derived carbonized char and activated carbon: Application perspective. Bioresource Technology, 2023, 381, 129135.

CITATION REPORT

#	Article	IF	CITATIONS
37	Quaternary Phosphonium Salt-functionalized Graphene Filter for Effective Water Disinfection. Journal of Physics: Conference Series, 2023, 2529, 012020.	0.4	0
38	Evidencing the synergistic effects of carbonization temperature, surface composition and structural properties on the catalytic activity of biochar/bimetallic composite. Journal of Analytical and Applied Pyrolysis, 2023, 173, 106069.	5.5	9
39	Research trends and perspectives on hydrothermal gasification in producing biofuels. Energy Nexus, 2023, 10, 100199.	7.7	10
40	Hydrochar and synthetic natural gas co-production for a full circular economy implementation via hydrothermal carbonization and methanation: An economic approach. Journal of Environmental Sciences, 2024, 140, 69-78.	6.1	2
41	Understanding the reaction behavior of alanine under hydrothermal conditions through a network model. Chemical Engineering Journal, 2023, 468, 143588.	12.7	0
42	Biochar and hydrochar as adsorbents for the removal of contaminants of emerging concern from wastewater. Advanced Technologies, 2023, 12, 57-74.	0.4	0
43	An Exploratory Study of Hydrochar as a Matrix for Biotechnological Applications. Industrial & Engineering Chemistry Research, 0, , .	3.7	0
44	Hydrogen production by catalytic aqueous-phase reforming of waste biomass: a review. Environmental Chemistry Letters, 2023, 21, 3089-3104.	16.2	3
45	Preparation, Modification, and Application of Biochar in the Printing Field: A Review. Materials, 2023, 16, 5081.	2.9	0
46	Biochar for future and futuristic biochar. Pedosphere, 2023, 33, 680-682.	4.0	6
46 47	Biochar for future and futuristic biochar. Pedosphere, 2023, 33, 680-682. Enhanced energy and nutrient recovery via hydrothermal carbonisation of sewage sludge: Effect of process parameters. Science of the Total Environment, 2024, 906, 167828.	4.0 8.0	6
46 47 48	Biochar for future and futuristic biochar. Pedosphere, 2023, 33, 680-682. Enhanced energy and nutrient recovery via hydrothermal carbonisation of sewage sludge: Effect of process parameters. Science of the Total Environment, 2024, 906, 167828. Biochar from <i>Delonix regia Biochar, from <i>Delonix regia Biofuels, 0, , 1-9.</i></i>	4.0 8.0 2.4	6 1 2
46 47 48 49	Biochar for future and futuristic biochar. Pedosphere, 2023, 33, 680-682. Enhanced energy and nutrient recovery via hydrothermal carbonisation of sewage sludge: Effect of process parameters. Science of the Total Environment, 2024, 906, 167828. Biochar from <i>Delonix regia</i> pod: consideration of an updraft retort carbonisation process. Biofuels, 0, , 1-9. Hydrothermal carbonization of oil palm trunk: Hydrochar properties and combustion behaviors. Energy Reports, 2023, 9, 380-386.	4.08.02.45.1	6 1 2 3
46 47 48 49 51	Biochar for future and futuristic biochar. Pedosphere, 2023, 33, 680-682. Enhanced energy and nutrient recovery via hydrothermal carbonisation of sewage sludge: Effect of process parameters. Science of the Total Environment, 2024, 906, 167828. Biochar from <i>Delonix regia</i> pod: consideration of an updraft retort carbonisation process. Biofuels, 0, , 1-9. Hydrothermal carbonization of oil palm trunk: Hydrochar properties and combustion behaviors. Energy Reports, 2023, 9, 380-386. Thermochemical Approach for Sustainable Transformation of Agricultural Waste into Value-Added End Products. , 2023, , 139-157.	4.08.02.45.1	6 1 2 3 0
 46 47 48 49 51 52 	Biochar for future and futuristic biochar. Pedosphere, 2023, 33, 680-682. Enhanced energy and nutrient recovery via hydrothermal carbonisation of sewage sludge: Effect of process parameters. Science of the Total Environment, 2024, 906, 167828. Biochar from <i>Delonix regia</i> pod: consideration of an updraft retort carbonisation process. Biofuels, 0, , 1-9. Hydrothermal carbonization of oil palm trunk: Hydrochar properties and combustion behaviors. Energy Reports, 2023, 9, 380-386. Thermochemical Approach for Sustainable Transformation of Agricultural Waste into Value-Added End Products. , 2023, , 139-157. Hydrothermal carbonization of plastic waste: A review of its potential in alternative energy applications. Fuel Communications, 2024, 18, 100103.	 4.0 8.0 2.4 5.1 5.2 	6 1 2 3 0
 46 47 48 49 51 52 53 	Biochar for future and futuristic biochar. Pedosphere, 2023, 33, 680-682. Enhanced energy and nutrient recovery via hydrothermal carbonisation of sewage sludge: Effect of process parameters. Science of the Total Environment, 2024, 906, 167828. Biochar from <i>Delonix regia</i> pod: consideration of an updraft retort carbonisation process. Biofuels, 0, , 1-9. Hydrothermal carbonization of oil palm trunk: Hydrochar properties and combustion behaviors. Energy Reports, 2023, 9, 380-386. Thermochemical Approach for Sustainable Transformation of Agricultural Waste into Value-Added End Products. , 2023, , 139-157. Hydrothermal carbonization of plastic waste: A review of its potential in alternative energy applications. Fuel Communications, 2024, 18, 100103. Hydrotreatment of Eucalyptus sawdust: The influence of process temperature and H2SO4 catalyst on hydrochar quality, combustion behavior and related emissions. Fuel, 2024, 360, 130643.	 4.0 8.0 2.4 5.1 5.2 6.4 	6 1 2 3 0 0
 46 47 48 49 51 52 53 54 	Biochar for future and futuristic biochar. Pedosphere, 2023, 33, 680-682. Enhanced energy and nutrient recovery via hydrothermal carbonisation of sewage sludge: Effect of process parameters. Science of the Total Environment, 2024, 906, 167828. Biochar from <i>Delonix regia</i> pod: consideration of an updraft retort carbonisation process. Biochar from <i>Delonix regia</i> pod: consideration of an updraft retort carbonisation process. Biochar from <i>Question of oil palm trunk: Hydrochar properties and combustion behaviors. Energy Reports, 2023, 9, 380-386. Thermochemical Approach for Sustainable Transformation of Agricultural Waste into Value-Added End Products., 2023, 139-157. Hydrothermal carbonization of plastic waste: A review of its potential in alternative energy applications. Fuel Communications, 2024, 18, 100103. Hydrotreatment of Eucalyptus sawdust: The influence of process temperature and H2SO4 catalyst on hydrochar quality, combustion behavior and related emissions. Fuel, 2024, 360, 130643. Synthetic natural gas production using CO2-rich waste stream from hydrothermal carbonization of biomass: Effect of impurities on the catalytic activity. Journal of CO2 Utilization, 2024, 79, 102653.</i>	 4.0 8.0 2.4 5.1 5.2 6.4 6.8 	 6 1 2 3 0 0 0 0 0 0 0 0

CITATION REPORT

#	Article	IF	CITATIONS
56	Adsorption Performance and Mechanism of H3PO4-Modified Banana Peel Hydrothermal Carbon on Pb(II). Separations, 2024, 11, 17.	2.4	1
57	Renewable Carbonaceous Materials from Biomass in Catalytic Processes: A Review. Materials, 2024, 17, 565.	2.9	0
58	Food waste management and sustainable waste to energy: Current efforts, anaerobic digestion, incinerator and hydrothermal carbonization with a focus in Malaysia. Journal of Cleaner Production, 2024, 448, 141457.	9.3	0
59	Techno-economic Analysis for the Valorization of Palm Kernel Shell via Hydrothermal Carbonization and Anaerobic Digestion. Green Energy and Technology, 2024, , 177-196.	0.6	0
60	Conversion of Sewage Sludge into Biofuels via Different Pathways and Their Use in Agriculture: A Comprehensive Review. Energies, 2024, 17, 1383.	3.1	0
61	Improving the prediction of biochar production from various biomass sources through the implementation of eXplainable machine learning approaches. International Journal of Green Energy, 0, , 1-28.	3.8	0