

# Omid Norouzi

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

1,536  
citations

279487

23  
h-index

315357

38  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1407  
citing authors

#	ARTICLE	IF	CITATIONS
1	Product evaluation of hydrothermal carbonization of biomass: semi-continuous vs. batch feeding. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 15-25.	2.9	17
2	A state-of-the-art review on algae pyrolysis for bioenergy and biochar production. <i>Bioresource Technology</i> , 2022, 346, 126258.	4.8	79
3	An investigation for improving dry anaerobic digestion of municipal solid wastes by adding biochar derived from gasification of wood pellets. <i>Renewable Energy</i> , 2022, 186, 1-9.	4.3	13
4	The Current Status and Future Potential of Biogas Production from Canada's Organic Fraction Municipal Solid Waste. <i>Energies</i> , 2022, 15, 475.	1.6	17
5	Hydrothermal liquefaction of green macroalgae <i>Cladophora glomerata</i> : Effect of functional groups on the catalytic performance of graphene oxide/polyurethane composite. <i>Catalysis Today</i> , 2022, 404, 93-104.	2.2	10
6	In vitro plant tissue culture as the fifth generation of bioenergy. <i>Scientific Reports</i> , 2022, 12, 5038.	1.6	14
7	Technologies for the production of renewable natural gas from organic wastes and their opportunities in existing Canadian pipelines. <i>Fuel Communications</i> , 2022, 11, 100056.	2.0	5
8	Integrated hybrid architecture of metal and biochar for high performance asymmetric supercapacitors. <i>Scientific Reports</i> , 2021, 11, 5387.	1.6	37
9	Design of a ternary 3D composite from hydrochar, zeolite and magnetite powder for direct conversion of biomass to gasoline. <i>Chemical Engineering Journal</i> , 2021, 410, 128323.	6.6	11
10	Effects of FeCl <sub>3</sub> Catalytic Hydrothermal Carbonization on Chemical Activation of Corn Wet Distillers' Fiber. <i>ACS Omega</i> , 2021, 6, 14875-14886.	1.6	15
11	Miscanthus to Biocarbon for Canadian Iron and Steel Industries: An Innovative Approach. <i>Energies</i> , 2021, 14, 4493.	1.6	2
12	What is the best catalyst for biomass pyrolysis?. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 158, 105280.	2.6	38
13	Anaerobic co-digestion of sewage sludge and slaughterhouse waste in existing wastewater digesters. <i>Renewable Energy</i> , 2020, 145, 2503-2509.	4.3	39
14	Review of biochar role as additive in anaerobic digestion processes. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 131, 110037.	8.2	153
15	New Insights for the Future Design of Composites Composed of Hydrochar and Zeolite for Developing Advanced Biofuels from Cranberry Pomace. <i>Energies</i> , 2020, 13, 6600.	1.6	5
16	Numerical Comparison of a Combined Hydrothermal Carbonization and Anaerobic Digestion System with Direct Combustion of Biomass for Power Production. <i>Processes</i> , 2020, 8, 43.	1.3	28
17	Biochar-based composites as electrode active materials in hybrid supercapacitors with particular focus on surface topography and morphology. <i>Journal of Energy Storage</i> , 2020, 29, 101291.	3.9	34
18	A study on potential recovery of energy and value-added chemicals from in-situ pyrolysis of <i>Bambusa balcooa</i> over basic metal oxides. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 147, 104801.	2.6	7

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19	Experimental studies on high-quality bio-oil production via pyrolysis of Azolla by the use of a three metallic/modified pyrochar catalyst. <i>Bioresource Technology</i> , 2019, 291, 121802.	4.8	26
20	Superior activity of metal oxide biochar composite in hydrogen evolution under artificial solar irradiation: A promising alternative to conventional metal-based photocatalysts. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 28698-28708.	3.8	26
21	Prediction of Hydrothermal Carbonization with Respect to the Biomass Components and Severity Factor. <i>Energy &amp; Fuels</i> , 2019, 33, 9916-9924.	2.5	45
22	Two-step synthesis of nanohusk Fe <sub>3</sub> O <sub>4</sub> embedded in 3D network pyrolytic marine biochar for a new generation of anode materials for Lithium-Ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 786, 930-937.	2.8	60
23	Magnetic biochar obtained through catalytic pyrolysis of macroalgae: A promising anode material for Li-ion batteries. <i>Renewable Energy</i> , 2019, 140, 704-714.	4.3	63
24	The effectiveness of anaerobic digestion of bio-waste in replacing primary energies: An EU28 case study. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 108, 347-354.	8.2	25
25	Synthesis and Design of Engineered Biochars as Electrode Materials in Energy Storage Systems. <i>Biofuels and Biorefineries</i> , 2019, , 233-265.	0.5	6
26	Superior visible-light photocatalytic activity of biocarbon derived from sewage sludge in the absence of active phase for hydrogen production. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1
27	Improving the Electrochemical Performance of Carbon Anodes Derived from Marine Biomass by Using Ionic-Liquid-Based Hybrid Electrolyte for LIBs. <i>Journal of Electronic Materials</i> , 2019, 48, 951-963.	1.0	14
28	Synthesis of a Novel Interconnected 3D Pore Network Algal Biochar Constituting Iron Nanoparticles Derived from a Harmful Marine Biomass as High-Performance Asymmetric Supercapacitor Electrodes. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4746-4758.	3.2	117
29	Pyrolysis of marine biomass to produce bio-oil and its upgrading using a novel multi-metal catalyst prepared from the spent car catalytic converter. <i>Bioresource Technology</i> , 2018, 249, 473-478.	4.8	26
30	A short review of comparative energy, economic and environmental assessment of different biogas-based power generation technologies. <i>Energy Procedia</i> , 2018, 148, 846-851.	1.8	11
31	Catalytic Effect of Functional and Fe Composite Biochars on Biofuel and Biochemical Derived from the Pyrolysis of Green Marine Biomass. <i>Fermentation</i> , 2018, 4, 96.	1.4	15
32	Catalytic conversion of Venice lagoon brown marine algae for producing hydrogen-rich gas and valuable biochemical using algal biochar and Ni/SBA-15 catalyst. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 19918-19929.	3.8	55
33	Steam reforming of bagasse to hydrogen and synthesis gas using ruthenium promoted Ni Fe <sup>3+</sup> Al <sub>2</sub> O <sub>3</sub> nano-catalysts. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 5505-5512.	3.8	30
34	Hydrothermal gasification performance of <i>Enteromorpha intestinalis</i> as an algal biomass for hydrogen-rich gas production using Ru promoted Fe <sup>3+</sup> -Ni <sup>2+</sup> -Al <sub>2</sub> O <sub>3</sub> nanocatalysts. <i>Energy Conversion and Management</i> , 2017, 141, 63-71.	4.4	97
35	Catalytic upgrading of bio-products derived from pyrolysis of red macroalgae <i>Gracilaria gracilis</i> with a promising novel micro/mesoporous catalyst. <i>Bioresource Technology</i> , 2017, 243, 1-8.	4.8	45
36	Turning an environmental problem into an opportunity: potential use of biochar derived from a harmful marine biomass named <i>Cladophora glomerata</i> as anode electrode for Li-ion batteries. <i>Environmental Science and Pollution Research</i> , 2017, 24, 27974-27984.	2.7	48

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37	Study of micro/macro ordered porous carbon with olive-shaped structure derived from <i>Cladophora glomerata</i> macroalgae as efficient working electrodes of supercapacitors. <i>Biomass and Bioenergy</i> , 2017, 107, 287-298.	2.9	93
38	Hydrothermal gasification of <i>Cladophora glomerata</i> macroalgae over its hydrochar as a catalyst for hydrogen-rich gas production. <i>Bioresource Technology</i> , 2016, 222, 232-241.	4.8	96
39	Promotion of hydrogen-rich gas and phenolic-rich bio-oil production from green macroalgae <i>Cladophora glomerata</i> via pyrolysis over its bio-char. <i>Bioresource Technology</i> , 2016, 219, 643-651.	4.8	113