Omid Norouzi

List of Publications by Year in descending order

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	Review of biochar role as additive in anaerobic digestion processes. Renewable and Sustainable Energy Reviews, 2020, 131, 110037.	8.2	153
2	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. ACS Sustainable Chemistry and Engineering, 2018, 6, 4746-4758.	3.2	117
3	Promotion of hydrogen-rich gas and phenolic-rich bio-oil production from green macroalgae Cladophora glomerata via pyrolysis over its bio-char. Bioresource Technology, 2016, 219, 643-651.	4.8	113
4	Hydrothermal gasification performance of Enteromorpha intestinalis as an algal biomass for hydrogen-rich gas production using Ru promoted Feâ€“Ni/Î³-Al 2 O 3 nanocatalysts. Energy Conversion and Management, 2017, 141, 63-71.	4.4	97
5	Hydrothermal gasification of Cladophora glomerata macroalgae over its hydrochar as a catalyst for hydrogen-rich gas production. Bioresource Technology, 2016, 222, 232-241.	4.8	96
6	Study of micro/macro ordered porous carbon with olive-shaped structure derived from Cladophora glomerata macroalgae as efficient working electrodes of supercapacitors. Biomass and Bioenergy, 2017, 107, 287-298.	2.9	93
7	A state-of-the-art review on algae pyrolysis for bioenergy and biochar production. Bioresource Technology, 2022, 346, 126258.	4.8	79
8	Magnetic biochar obtained through catalytic pyrolysis of macroalgae: A promising anode material for Li-ion batteries. Renewable Energy, 2019, 140, 704-714.	4.3	63
9	Two-step synthesis of nanohusk Fe3O4 embedded in 3D network pyrolytic marine biochar for a new generation of anode materials for Lithium-Ion batteries. Journal of Alloys and Compounds, 2019, 786, 930-937.	2.8	60
10	Catalytic conversion of Venice lagoon brown marine algae for producing hydrogen-rich gas and valuable biochemical using algal biochar and Ni/SBA-15 catalyst. International Journal of Hydrogen Energy, 2018, 43, 19918-19929.	3.8	55
11	Turning an environmental problem into an opportunity: potential use of biochar derived from a harmful marine biomass named Cladophora glomerata as anode electrode for Li-ion batteries. Environmental Science and Pollution Research, 2017, 24, 27974-27984.	2.7	48
12	Catalytic upgrading of bio-products derived from pyrolysis of red macroalgae Gracilaria gracilis with a promising novel micro/mesoporous catalyst. Bioresource Technology, 2017, 243, 1-8.	4.8	45
13	Prediction of Hydrothermal Carbonization with Respect to the Biomass Components and Severity Factor. Energy & Fuels, 2019, 33, 9916-9924.	2.5	45
14	Anaerobic co-digestion of sewage sludge and slaughterhouse waste in existing wastewater digesters. Renewable Energy, 2020, 145, 2503-2509.	4.3	39
15	What is the best catalyst for biomass pyrolysis?. Journal of Analytical and Applied Pyrolysis, 2021, 158, 105280.	2.6	38
16	Integrated hybrid architecture of metal and biochar for high performance asymmetric supercapacitors. Scientific Reports, 2021, 11, 5387.	1.6	37
17	Biochar-based composites as electrode active materials in hybrid supercapacitors with particular focus on surface topography and morphology. Journal of Energy Storage, 2020, 29, 101291.	3.9	34
18	Steam reforming of bagasse to hydrogen and synthesis gas using ruthenium promoted Ni Fe/Î³ Al2O3nano-catalysts. International Journal of Hydrogen Energy, 2017, 42, 5505-5512.	3.8	30

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19	Numerical Comparison of a Combined Hydrothermal Carbonization and Anaerobic Digestion System with Direct Combustion of Biomass for Power Production. Processes, 2020, 8, 43.	1.3	28
20	Pyrolysis of marine biomass to produce bio-oil and its upgrading using a novel multi-metal catalyst prepared from the spent car catalytic converter. Bioresource Technology, 2018, 249, 473-478.	4.8	26
21	Experimental studies on high-quality bio-oil production via pyrolysis of Azolla by the use of a three metallic/modified pyrochar catalyst. Bioresource Technology, 2019, 291, 121802.	4.8	26
22	Superior activity of metal oxide biochar composite in hydrogen evolution under artificial solar irradiation: A promising alternative to conventional metal-based photocatalysts. International Journal of Hydrogen Energy, 2019, 44, 28698-28708.	3.8	26
23	The effectiveness of anaerobic digestion of bio-waste in replacing primary energies: An EU28 case study. Renewable and Sustainable Energy Reviews, 2019, 108, 347-354.	8.2	25
24	Product evaluation of hydrothermal carbonization of biomass: semi-continuous vs. batch feeding. Biomass Conversion and Biorefinery, 2022, 12, 15-25.	2.9	17
25	The Current Status and Future Potential of Biogas Production from Canadaâ€™s Organic Fraction Municipal Solid Waste. Energies, 2022, 15, 475.	1.6	17
26	Catalytic Effect of Functional and Fe Composite Biochars on Biofuel and Biochemical Derived from the Pyrolysis of Green Marine Biomass. Fermentation, 2018, 4, 96.	1.4	15
27	Effects of FeCl‹sub›3‹/sub› Catalytic Hydrothermal Carbonization on Chemical Activation of Corn Wet Distillersâ€™ Fiber. ACS Omega, 2021, 6, 14875-14886.	1.6	15
28	Improving the Electrochemical Performance of Carbon Anodes Derived from Marine Biomass by Using Ionic-Liquid-Based Hybrid Electrolyte for LIBs. Journal of Electronic Materials, 2019, 48, 951-963.	1.0	14
29	In vitro plant tissue culture as the fifth generation of bioenergy. Scientific Reports, 2022, 12, 5038.	1.6	14
30	An investigation for improving dry anaerobic digestion of municipal solid wastes by adding biochar derived from gasification of wood pellets. Renewable Energy, 2022, 186, 1-9.	4.3	13
31	A short review of comparative energy, economic and environmental assessment of different biogas-based power generation technologies. Energy Procedia, 2018, 148, 846-851.	1.8	11
32	Design of a ternary 3D composite from hydrochar, zeolite and magnetite powder for direct conversion of biomass to gasoline. Chemical Engineering Journal, 2021, 410, 128323.	6.6	11
33	Hydrothermal liquefaction of green macroalgae Cladophora glomerata: Effect of functional groups on the catalytic performance of graphene oxide/polyurethane composite. Catalysis Today, 2022, 404, 93-104.	2.2	10
34	A study on potential recovery of energy and value-added chemicals from in-situ pyrolysis of Bambusa balcooa over basic metal oxides. Journal of Analytical and Applied Pyrolysis, 2020, 147, 104801.	2.6	7
35	Synthesis and Design of Engineered Biochars as Electrode Materials in Energy Storage Systems. Biofuels and Biorefineries, 2019, , 233-265.	0.5	6
36	New Insights for the Future Design of Composites Composed of Hydrochar and Zeolite for Developing Advanced Biofuels from Cranberry Pomace. Energies, 2020, 13, 6600.	1.6	5

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37	Technologies for the production of renewable natural gas from organic wastes and their opportunities in existing Canadian pipelines. Fuel Communications, 2022, 11, 100056.	2.0	5
38	Miscanthus to Biocarbon for Canadian Iron and Steel Industries: An Innovative Approach. Energies, 2021, 14, 4493.	1.6	2
39	Superior visible-light photocatalytic activity of biocarbon derived from sewage sludge in the absence of active phase for hydrogen production. AIP Conference Proceedings, 2019, , .	0.3	1