Faisal Abnisa

List of Publications by Year
in descending order

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61 papers	5,567 citations	249298 26 h-index	145109 60 g-index
62 all docs	62 docs citations	62 times ranked	6438 citing authors

#	Article	IF	Citations
1	Preparation of magnetized iron oxide grafted on graphene oxide for hyperthermia application. Reviews in Chemical Engineering, 2022, 38, 569-601.	2.3	7
2	Investigating the relevance of Environmental Kuznets curve hypothesis in Saudi Arabia: towards energy efficiency and minimal carbon dioxide emission. Clean Technologies and Environmental Policy, 2022, 24, 1285-1300.	2.1	11
3	Activated carbon-based electrodes for two-steps catalytic/ electrocatalytic reduction of glycerol in Amberlyst-15 mediator. Chemosphere, 2022, , 133949.	4.2	3
4	Glycerol Electrocatalytic Reduction Using an Activated Carbon Composite Electrode: Understanding the Reaction Mechanisms and an Optimization Study. Frontiers in Chemistry, 2022, 10, 845614.	1.8	2
5	Palm oil hydrodeoxygenation into green diesel over NiO/NbOPO4 catalyst: A novel approach of synthesizing NbOPO4 from NbCl5. Journal of Cleaner Production, 2022, 354, 131704.	4.6	13
6	Efficient hydrogen production by microwave-assisted catalysis for glycerol-water solutions via NiO/zeolite-CaO catalyst. South African Journal of Chemical Engineering, 2022, 41, 43-50.	1.2	4
7	A review of recent progress on electrocatalysts toward efficient glycerol electrooxidation. Reviews in Chemical Engineering, 2021, 37, 779-811.	2.3	28
8	Harvesting Electricity from CO2 Emission: Opportunities, Challenges and Future Prospects. International Journal of Precision Engineering and Manufacturing - Green Technology, 2021, 8, 1061-1081.	2.7	3
9	Individual torrefaction parameter enhances characteristics of torrefied empty fruit bunches. Biomass Conversion and Biorefinery, 2021, 11, 461-472.	2.9	18
10	Synthesis, characterization and in vitro analysis of superparamagnetic iron oxide nanoparticles for targeted hyperthermia therapy. Chemical Papers, 2021, 75, 669-679.	1.0	7
11	Kinetic parameters for glycerol electrooxidation over nitrogen- and fluorine-doped composite carbon: Dynamic electrochemical impedance spectroscopy analysis based. Journal of Electroanalytical Chemistry, 2021, 883, 115043.	1.9	4
12	Rational design of PEGylated magnetite grafted on graphene oxide with effective heating efficiency for magnetic hyperthermia application. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 619, 126545.	2.3	5
13	Effect of temperature and feed rate on pyrolysis oil produced via helical screw fluidized bed reactor. Korean Journal of Chemical Engineering, 2021, 38, 1797-1809.	1.2	17
14	Comparative study of catalytic performance and degradation kinetics of biodiesels produced using heterogeneous catalysts from kaolinite. Journal of Environmental Chemical Engineering, 2021, 9, 105569.	3.3	14
15	A comprehensive study on torrefaction of empty fruit bunches: Characterization of solid, liquid and gas products. Energy, 2021, 230, 120877.	4.5	14
16	Optimization of palm shell pyrolysis parameters in helical screw fluidized bed reactor: Effect of particle size, pyrolysis time and vapor residence time. Cleaner Engineering and Technology, 2021, 4, 100174.	2.1	17
17	Recovery of liquid fuel from fossil-based solid wastes via pyrolysis technique: A review. Journal of Environmental Chemical Engineering, 2021, 9, 106593.	3.3	31
18	Investigating the electrocatalytic oxidation of glycerol on simultaneous nitrogen- and fluorine-doped on activated carbon black composite. Diamond and Related Materials, 2020, 101, 107626.	1.8	9

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19	A review of recent developments on kinetics parameters for glycerol electrochemical conversion â€“ A by-product of biodiesel. Science of the Total Environment, 2020, 705, 135137.	3.9	57
20	A review on production of metal organic frameworks (MOF) for CO2 adsorption. Science of the Total Environment, 2020, 707, 135090.	3.9	385
21	Performance of eggshells powder as an adsorbent for adsorption of hexavalent chromium and cadmium from wastewater. SN Applied Sciences, 2020, 2, 1.	1.5	19
22	Synthesis and in-vitro characterization of superparamagnetic iron oxide nanoparticles using a sole precursor for hyperthermia therapy. Materials Research Bulletin, 2020, 132, 110975.	2.7	14
23	Catalyst Characteristics and Performance of Silica-Supported Zinc for Hydrodeoxygenation of Phenol. Energies, 2020, 13, 2802.	1.6	3
24	Gas-phase hydrodeoxygenation of phenol over Zn/SiO2 catalysts: Effects of zinc load, temperature, weight hourly space velocity, and H2 volumetric flow rate. Biomass and Bioenergy, 2020, 138, 105556.	2.9	12
25	Methane decomposition with a minimal catalyst: An optimization study with response surface methodology over Ni/SiO2 nanocatalyst. International Journal of Hydrogen Energy, 2020, 45, 14383-14395.	3.8	21
26	Experimental and modelling study of the torrefaction of empty fruit bunches as a potential fuel for palm oil mill boilers. Biomass and Bioenergy, 2020, 136, 105530.	2.9	20
27	Polycaprolactone-coated superparamagnetic iron oxide nanoparticles for in vitro magnetic hyperthermia therapy of cancer. European Polymer Journal, 2020, 133, 109789.	2.6	61
28	Investigation on Synthesis of Trimethylolpropane (TMP) Ester from Non-edible Oil. Bulletin of Chemical Reaction Engineering and Catalysis, 2020, 15, 808-817.	0.5	6
29	Temperatureâ€programmed reduction of silver(I) oxide using a titaniaâ€supported silver catalyst under a H 2 atmosphere. Journal of the Chinese Chemical Society, 2019, 66, 1443-1455.	0.8	7
30	Novel helical screw-fluidized bed reactor for bio-oil production in slow-pyrolysis mode: A preliminary study. Journal of Analytical and Applied Pyrolysis, 2019, 142, 104605.	2.6	19
31	A review on deoxygenation of triglycerides for jet fuel range hydrocarbons. Journal of Analytical and Applied Pyrolysis, 2019, 140, 1-24.	2.6	89
32	Atmospheric hydrodeoxygenation of phenol as pyroliticâ€oil model compound for hydrocarbon production using Ag/TiO₂ catalyst. Asia-Pacific Journal of Chemical Engineering, 2019, 14, e2293.	0.8	12
33	Synthesis of valuable intermediate products from natural rubber under supercritical alcohol conditions. Journal of Analytical and Applied Pyrolysis, 2019, 139, 196-204.	2.6	12
34	The Yield Prediction of Synthetic Fuel Production from Pyrolysis of Plastic Waste by Levenbergâ€“Marquardt Approach in Feedforward Neural Networks Model. Polymers, 2019, 11, 1853.	2.0	19
35	Synergistic interaction of metalâ€“acid sites for phenol hydrodeoxygenation over bifunctional Ag/TiO2 nanocatalyst. Chinese Journal of Chemical Engineering, 2019, 27, 349-361.	1.7	22
36	Synthesis of Highly Stable Superparamagnetic Iron Oxide Nanoparticles Under Mild Alkaline Reagents and Anaerobic Condition. Nanoscience and Nanotechnology Letters, 2019, 11, 985-990.	0.4	6

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37	A technical review on semi-continuous and continuous pyrolysis process of biomass to bio-oil. Journal of Analytical and Applied Pyrolysis, 2018, 131, 52-75.	2.6	103
38	Liquefaction of natural rubber to liquid fuels via hydrous pyrolysis. Fuel, 2018, 218, 227-235.	3.4	32
39	Atmospheric hydrodeoxygenation of bio-oil oxygenated model compounds: A review. Journal of Analytical and Applied Pyrolysis, 2018, 133, 117-127.	2.6	62
40	Delayed volatiles release phenomenon at higher temperature in TGA via sample encapsulation technique. Fuel, 2018, 234, 422-429.	3.4	10
41	Removal of lead by solar-photovoltaic electrocoagulation using novel perforated zinc electrode. Journal of Cleaner Production, 2017, 147, 206-216.	4.6	63
42	A review on reaction mechanisms of metal-catalyzed deoxygenation process in bio-oil model compounds. Applied Catalysis A: General, 2017, 541, 87-106.	2.2	115
43	Review on magnetic nanoparticles for magnetic nanofluid hyperthermia application. Materials and Design, 2017, 123, 174-196.	3.3	410
44	A review of torrefaction of oil palm solid wastes for biofuel production. Energy Conversion and Management, 2017, 149, 101-120.	4.4	213
45	A review on reactivity and stability of heterogeneous metal catalysts for deoxygenation of bio-oil model compounds. Journal of Industrial and Engineering Chemistry, 2017, 56, 1-34.	2.9	132
46	Energy recovery from pyrolysis of plastic waste: Study on non-recycled plastics (NRP) data as the real measure of plastic waste. Energy Conversion and Management, 2017, 148, 925-934.	4.4	162
47	Optimizing the use of biomass waste through co-pyrolysis. Inform, 2017, 28, 16-19.	0.1	4
48	A review of the enzymatic hydroesterification process for biodiesel production. Renewable and Sustainable Energy Reviews, 2016, 61, 245-257.	8.2	108
49	Potential use of natural rubber to produce liquid fuels using hydrous pyrolysis â€“ a review. RSC Advances, 2016, 6, 68906-68921.	1.7	28
50	A review on pyrolysis of plastic wastes. Energy Conversion and Management, 2016, 115, 308-326.	4.4	1,296
51	Optimization of fuel recovery through the stepwise co-pyrolysis of palm shell and scrap tire. Energy Conversion and Management, 2015, 99, 334-345.	4.4	95
52	Pyrolysis of mixtures of palm shell and polystyrene: An optional method to produce a highâ€grade of pyrolysis oil. Environmental Progress and Sustainable Energy, 2014, 33, 1026-1033.	1.3	77
53	Recovery of Liquid Fuel from the Aqueous Phase of Pyrolysis Oil Using Catalytic Conversion. Energy & Fuels, 2014, 28, 3074-3085.	2.5	35
54	A review on co-pyrolysis of biomass: An optional technique to obtain a high-grade pyrolysis oil. Energy Conversion and Management, 2014, 87, 71-85.	4.4	626

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55	Characterization of Bio-oil and Bio-char from Pyrolysis of Palm Oil Wastes. Bioenergy Research, 2013, 6, 830-840.	2.2	175
56	Co-pyrolysis of palm shell and polystyrene waste mixtures to synthesis liquid fuel. Fuel, 2013, 108, 311-318.	3.4	130
57	Utilization of oil palm tree residues to produce bio-oil and bio-char via pyrolysis. Energy Conversion and Management, 2013, 76, 1073-1082.	4.4	178
58	Production of microporous palm shell based activated carbon for methane adsorption: Modeling and optimization using response surface methodology. Chemical Engineering Research and Design, 2012, 90, 776-784.	2.7	140
59	Optimization and characterization studies on bio-oil production from palm shell by pyrolysis using response surface methodology. Biomass and Bioenergy, 2011, 35, 3604-3616.	2.9	153
60	Utilization possibilities of palm shell as a source of biomass energy in Malaysia by producing bio-oil in pyrolysis process. Biomass and Bioenergy, 2011, 35, 1863-1872.	2.9	226
61	Pyrolysis of palm kernel shell using screw-assisted fluidization: effect of heating rate. Brazilian Journal of Chemical Engineering, 0, , 1.	0.7	3