

# Farid Nasir Ani

## List of Publications by Year in descending order

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116  
papers

5,701  
citations

109321

35  
h-index

79698

73  
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116  
all docs

116  
docs citations

116  
times ranked

6702  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent development in the production of activated carbon electrodes from agricultural waste biomass for supercapacitors: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 52, 1282-1293.	16.4	629
2	Microwave-assisted synthesis of metal oxide/hydroxide composite electrodes for high power supercapacitors – A review. <i>Journal of Power Sources</i> , 2014, 263, 338-360.	7.8	360
3	Preparing activated carbon from various nutshells by chemical activation with K <sub>2</sub> CO <sub>3</sub> . <i>Carbon</i> , 2002, 40, 2381-2386.	10.3	326
4	Pyrolysis and combustion kinetics of date palm biomass using thermogravimetric analysis. <i>Bioresource Technology</i> , 2012, 118, 382-389.	9.6	307
5	The development supercapacitor from activated carbon by electroless plating – A review. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 42, 823-834.	16.4	306
6	A review on microwave assisted pyrolysis of coal and biomass for fuel production. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 39, 555-574.	16.4	274
7	Progress in waste oil to sustainable energy, with emphasis on pyrolysis techniques. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 53, 741-753.	16.4	267
8	Microwave induced pyrolysis of oil palm biomass. <i>Bioresource Technology</i> , 2011, 102, 3388-3395.	9.6	261
9	Pyrolysis characteristics and kinetic studies of horse manure using thermogravimetric analysis. <i>Energy Conversion and Management</i> , 2019, 180, 1260-1267.	9.2	214
10	Review on bioethanol as alternative fuel for spark ignition engines. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 56, 820-835.	16.4	182
11	Fruit waste as feedstock for recovery by pyrolysis technique. <i>International Biodeterioration and Biodegradation</i> , 2016, 113, 325-333.	3.9	157
12	Microwave-assisted pyrolysis of oil palm shell biomass using an overhead stirrer. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 96, 162-172.	5.5	145
13	A review on oil palm empty fruit bunch fiber reinforced polymer composite materials. <i>Polymer Composites</i> , 2010, 31, 2079-2101.	4.6	135
14	Dielectric properties and microwave heating of oil palm biomass and biochar. <i>Industrial Crops and Products</i> , 2013, 50, 366-374.	5.2	128
15	Optimization and characterization of bio-oil produced by microwave assisted pyrolysis of oil palm shell waste biomass with microwave absorber. <i>Bioresource Technology</i> , 2015, 190, 442-450.	9.6	122
16	Pyrolytic oil from fluidised bed pyrolysis of oil palm shell and its characterisation. <i>Renewable Energy</i> , 1999, 17, 73-84.	8.9	116
17	Pyrolysis of oil palm empty fruit bunch biomass pellets using multimode microwave irradiation. <i>Bioresource Technology</i> , 2012, 125, 102-107.	9.6	109
18	An integrated approach for biodiesel and bioethanol production from <i>Scenedesmus bijugatus</i> cultivated in a vertical tubular photobioreactor. <i>Energy Conversion and Management</i> , 2015, 101, 778-786.	9.2	76

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19	A new technique to pyrolyse biomass in a microwave system: Effect of stirrer speed. <i>Bioresource Technology</i> , 2013, 128, 578-585.	9.6	75
20	Production of liquid biofuels (biodiesel and bioethanol) from brown marine macroalgae <i>Padina tetraströmatica</i> . <i>Energy Conversion and Management</i> , 2017, 135, 351-361.	9.2	74
21	Solar absorption systems with integrated absorption energy storage—A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 1602-1610.	16.4	72
22	Date palm waste gasification in downdraft gasifier and simulation using ASPEN HYSYS. <i>Energy Conversion and Management</i> , 2014, 88, 693-699.	9.2	69
23	Bioethanol production from sago pith waste using microwave hydrothermal hydrolysis accelerated by carbon dioxide. <i>Applied Energy</i> , 2014, 128, 277-283.	10.1	67
24	Modified phyto-waste <i>Terminalia catappa</i> fruit shells: a reusable adsorbent for the removal of micropollutant diclofenac. <i>RSC Advances</i> , 2015, 5, 30950-30962.	3.6	61
25	Optimization and characterization of biodiesel production from microalgae <i>Botryococcus</i> grown at semi-continuous system. <i>Energy Conversion and Management</i> , 2014, 88, 936-946.	9.2	60
26	Fuel production from microwave assisted pyrolysis of coal with carbon surfaces. <i>Energy Conversion and Management</i> , 2016, 110, 142-153.	9.2	57
27	Microwave dielectric properties of Malaysian palm oil and agricultural industrial biomass and biochar during pyrolysis process. <i>Fuel Processing Technology</i> , 2017, 166, 164-173.	7.2	57
28	Microwave torrefaction for viable fuel production: A review on theory, affecting factors, potential and challenges. <i>Fuel</i> , 2019, 253, 512-526.	6.4	57
29	Optimization studies of microwave-induced co-pyrolysis of empty fruit bunches/waste truck tire using response surface methodology. <i>Journal of Cleaner Production</i> , 2020, 244, 118649.	9.3	53
30	Microwave pyrolysis for valorisation of horse manure biowaste. <i>Energy Conversion and Management</i> , 2020, 220, 113074.	9.2	52
31	Impact of metals on corrosive behavior of biodiesel—diesel—ethanol (BDE) alternative fuel. <i>Renewable Energy</i> , 2016, 94, 1-9.	8.9	49
32	Microwave-assisted production of optimized pyrolysis liquid oil from oil palm fiber. <i>Journal of Cleaner Production</i> , 2018, 182, 404-413.	9.3	48
33	Performance characteristics of a solar driven lithium bromide-water absorption chiller integrated with absorption energy storage. <i>Energy Conversion and Management</i> , 2017, 150, 188-200.	9.2	47
34	Microwave-assisted and carbonaceous catalytic pyrolysis of crude glycerol from biodiesel waste for energy production. <i>Energy Conversion and Management</i> , 2017, 143, 399-409.	9.2	42
35	Carbon molecular sieves produced from oil palm shell for air separation. <i>Separation and Purification Technology</i> , 2004, 35, 47-54.	7.9	41
36	Phenol-rich bio-oil derivation via microwave-induced fast pyrolysis of oil palm empty fruit bunch with activated carbon. <i>Environmental Technology and Innovation</i> , 2021, 21, 101291.	6.1	31

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37	Numerical and experimental study of an ejector as an expansion device in split-type air conditioner for energy savings. <i>Energy and Buildings</i> , 2014, 79, 98-105.	6.7	30
38	Microwave assisted acid hydrolysis for bioethanol fuel production from sago pith waste. <i>Waste Management</i> , 2019, 86, 80-86.	7.4	29
39	A study on large scale cultivation of <i>Microcystis aeruginosa</i> under open raceway pond at semi-continuous mode for biodiesel production. <i>Bioresource Technology</i> , 2014, 172, 186-193.	9.6	28
40	Microwave-induced pyrolysis of waste truck tyres with carbonaceous susceptor for the production of diesel-like fuel. <i>Journal of the Energy Institute</i> , 2019, 92, 1831-1841.	5.3	28
41	Review of Limiting Issues in Industrialization and Scale-up of Microwave-Assisted Activated Carbon Production. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 12185-12191.	3.7	23
42	Microwave induced plasma for solid fuels and waste processing: A review on affecting factors and performance criteria. <i>Waste Management</i> , 2017, 69, 423-430.	7.4	21
43	A detailed parametric study of a solar driven double-effect absorption chiller under various solar radiation data. <i>Journal of Cleaner Production</i> , 2020, 251, 119750.	9.3	21
44	Economic analysis of a novel solar-assisted air conditioning system with integral absorption energy storage. <i>Journal of Cleaner Production</i> , 2021, 291, 125918.	9.3	20
45	Corrosive characteristics of bioethanol and gasoline blends for metals. <i>International Journal of Energy Research</i> , 2016, 40, 1704-1711.	4.5	16
46	Electroless nano zinc oxide-activated carbon composite supercapacitor electrode. <i>Journal of Electroceramics</i> , 2016, 36, 122-128.	2.0	16
47	The Tribological Characteristic of the Blends of Rbd Palm Olein with Mineral Oil Using Four-ball Tribotester. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2014, 69, .	0.4	14
48	Charging and discharging characteristics of absorption energy storage integrated with a solar driven double-effect absorption chiller for air conditioning applications. <i>Journal of Energy Storage</i> , 2020, 29, 101374.	8.1	14
49	The Utilization Potential of Rice Husk as an Alternative Energy Source for Power Plants in Indonesia. <i>Advanced Materials Research</i> , 0, 845, 494-498.	0.3	12
50	Numerical Study of Ejector as an Expansion Device in Split-Type Air Conditioner. <i>Applied Mechanics and Materials</i> , 0, 388, 101-105.	0.2	12
51	Microwave Assisted Pyrolysis of Waste Biomass Resources for Bio-Oil Production. <i>Applied Mechanics and Materials</i> , 0, 554, 307-311.	0.2	12
52	Application of selective non-catalytic reduction of NO <sub>x</sub> in small-scale combustion systems. <i>Atmospheric Environment</i> , 2004, 38, 6823-6828.	4.1	11
53	Antioxidants, Toxicity, and Nitric Oxide Inhibition Properties of Pyrolygneous Acid from Palm Kernel Shell Biomass. <i>Waste and Biomass Valorization</i> , 2020, 11, 6307-6319.	3.4	11
54	Diffusional behavior and adsorption capacity of palm shell chars for oxygen and nitrogen—the effect of carbonization temperature. <i>Carbon</i> , 2003, 41, 840-842.	10.3	10

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55	Comparing Characteristics of Oil Palm Biochar Using Conventional and Microwave Heating. Jurnal Teknologi (Sciences and Engineering), 2014, 68, .	0.4	10
56	The Characteristics of Oil Palm Shell Biochar and Activated Carbon Produced via Microwave Heating. Applied Mechanics and Materials, 0, 695, 12-15.	0.2	10
57	Numerical Study of an Ejector as an Expansion Device in Split-type Air Conditioners for Energy Savings. Journal of Engineering and Technological Sciences, 2013, 45, 179-192.	0.6	10
58	Heating characteristics of biomass and carbonaceous materials under microwave radiation. , 2011, , .		9
59	Fossil fuel energy scenario in Malaysia-prospect of indigenous renewable biomass and coal resources. , 2013, , .		9
60	Investigate Jatropha Oil as New Source of Lubricant Oil. Applied Mechanics and Materials, 0, 465-466, 201-205.	0.2	9
61	Optimization of microwave irradiated - coconut shell activated carbon using response surface methodology for adsorption of benzene and toluene. Desalination and Water Treatment, 2016, 57, 7881-7897.	1.0	9
62	ADVANCEMENT IN THE PRODUCTION OF ACTIVATED CARBON FROM BIOMASS USING MICROWAVE HEATING. Jurnal Teknologi (Sciences and Engineering), 2017, 79, .	0.4	9
63	Palm Fatty Acid Distillate as an Alternative Source for Hydraulic Oil. Applied Mechanics and Materials, 0, 315, 941-945.	0.2	8
64	Energy Savings in Air Conditioning System Using Ejector: An Overview. Applied Mechanics and Materials, 0, 493, 93-98.	0.2	8
65	The Tribological Characteristics of RBD Palm Olein with Jatropha Oil Blend Using Four-Ball Tribotester with Different Normal Loads. Applied Mechanics and Materials, 0, 819, 499-503.	0.2	8
66	Water Absorption of Lignocellulosic Phenolic Composites. Polymers and Polymer Composites, 2008, 16, 379-387.	1.9	7
67	Microwave induced fast pyrolysis of scrap rubber tires. AIP Conference Proceedings, 2012, , .	0.4	7
68	Tribological Features of Refined, Deodorized, and Bleached Palm Olein with Mineral Oil Blend. Tribology Transactions, 2016, 59, 671-678.	2.0	7
69	Utilization of Oil Palm Fiber and Palm Kernel Shell in Various Applications. , 2018, , 45-56.		7
70	Experimental and Simulation Study of Fluidization Behavior of Palm Biomass in a Circulating Fluidized Bed Riser. Industrial & Engineering Chemistry Research, 2013, 52, 17529-17537.	3.7	6
71	Syngas Production from Microwave Gasification of Oil Palm Biochars. Applied Mechanics and Materials, 0, 695, 247-250.	0.2	6
72	Potential Surplus of Rice Straw as a Source of Energy for Rural Communities in Indonesia. Applied Mechanics and Materials, 0, 695, 806-810.	0.2	6

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73	Combustion Performance of Diesel Palm Olein Fuel: A Combined CFD and Experimental Approach. Arabian Journal for Science and Engineering, 2018, 43, 1291-1300.	3.0	6
74	Microwave irradiation biodiesel processing of waste cooking oil. , 2012, , .		5
75	Wear resistance evaluation of palm fatty acid distillate using four-ball tribotester. , 2012, , .		5
76	The Performances of Fixed and Stirred Bed in Microwave Pyrolysis of Biomass. APCBEE Procedia, 2012, 3, 188-193.	0.5	5
77	Evaluation of the Prospects of Using Solar Thermal Air-Conditioning Systems in Saudi Arabia. Applied Mechanics and Materials, 0, 554, 271-275.	0.2	5
78	Combustion Characteristics Modeling of Rice Husk as Fuel for Power Plant in Indonesia. Applied Mechanics and Materials, 0, 695, 815-819.	0.2	5
79	Heterogeneous Microwave Irradiation Biodiesel Processing of Jatropha Oil. Applied Mechanics and Materials, 0, 554, 500-504.	0.2	5
80	New composites based on low-density polyethylene and rice husk: Elemental and thermal characteristics. Environmental Engineering Research, 2018, 23, 250-257.	2.5	5
81	Wear Resistance Characteristic of Vegetable Oil. Advanced Materials Research, 2013, 795, 42-46.	0.3	4
82	The Effect of Flame Temperature, Nozzle Position and Swirl Gas on Microwave Plasma Flame. Jurnal Teknologi (Sciences and Engineering), 2014, 68, .	0.4	4
83	Application of ANN to Predict S.I. Engine Performance and Emission Characteristics Fuelled Bioethanol. Applied Mechanics and Materials, 0, 554, 454-458.	0.2	4
84	Pyrolysis of Solid Palm Waste Biomass with Microwave Absorber under Microwave Irradiation. Applied Mechanics and Materials, 2014, 606, 73-77.	0.2	4
85	Characteristic of Oil Palm Activated Carbon Produced from Microwave and Conventional Heating. Applied Mechanics and Materials, 0, 819, 606-611.	0.2	4
86	Combustion modelling of an industrial municipal waste combustor in Malaysia. International Journal of Environmental Studies, 2006, 63, 313-329.	1.6	3
87	Preliminary Study on Combustion of Biodiesel for Power Generation. , 2006, , 29.		3
88	Solid Waste Management and Treatment in Malaysia. Applied Mechanics and Materials, 0, 699, 969-974.	0.2	3
89	Bio-Oils Characteristic from Oil Palm Biomass from Different Fast Pyrolysis Techniques. Applied Mechanics and Materials, 2014, 554, 266-270.	0.2	3
90	The Performances of Intimately Mix and Layer Methods in Microwave Assisted Pyrolysis System. Applied Mechanics and Materials, 0, 554, 150-154.	0.2	3

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91	MICROWAVE PLASMA GASIFICATION OF OIL PALM BIOCHAR. Jurnal Teknologi (Sciences and Engineering), 2015, 74, .	0.4	3
92	EFFECT OF HEAT TREATMENT ON THE CHARACTERISTICS OF ELECTROLESS ACTIVATED CARBON-NICKEL OXIDE NANOCOMPOSITES. Jurnal Teknologi (Sciences and Engineering), 2017, 79, .	0.4	3
93	Pyrolysis characteristic of rice husk with plastic bag as fuel for power generation by using a thermogravimetric analysis. IOP Conference Series: Earth and Environmental Science, 2018, 105, 012034.	0.3	3
94	The application of gas ejector for road transport air conditioning system. , 2012, , .		2
95	The Effects of Injection Parameters on the Performance of Common Rail Light Duty Engine Fueled with Palm Oil Biodiesel. Applied Mechanics and Materials, 0, 465-466, 322-326.	0.2	2
96	Thermodynamic Analysis of Ejector as an Expansion Device on Split-Type Air Conditioner Using R410A as Working Fluid. Applied Mechanics and Materials, 0, 493, 227-232.	0.2	2
97	Performance and Emission of a Common Rail Passenger Car Engine Fuelled with Palm Oil Biodiesel. Applied Mechanics and Materials, 0, 564, 66-71.	0.2	2
98	Heat distortion temperature and mechanical properties of agricultural wastes-reinforced phenolic composites. Journal of Polymer Engineering, 2016, 36, 641-647.	1.4	2
99	Exergy Analysis on a Split-Type Conditioner Using Ejector as an Expansion Device. Applied Mechanics and Materials, 0, 699, 828-833.	0.2	1
100	Microwave Thermal Conversion of Oil Palm and Related Biomass for Biofuels and Biochars. Applied Mechanics and Materials, 2014, 606, 223-226.	0.2	1
101	Simulation of a Double-Effect Solar Absorption System for Traditional House in Yemen. Applied Mechanics and Materials, 0, 695, 797-800.	0.2	1
102	Emissions from Petrol Engine Fueled Gasolineâ€“Ethanolâ€“Methanol (GEM) Ternary mixture as Alternative Fuel. MATEC Web of Conferences, 2015, 27, 01010.	0.2	1
103	Sustainable Biofuels and Other Related Bio-Products from Palm Cultivations. MATEC Web of Conferences, 2016, 77, 11005.	0.2	1
104	HETEROGENEOUS TRANSESTERIFICATION OF RUBBER SEED OIL BIODIESEL PRODUCTION. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	1
105	Performance of Ejector Refrigeration Cycle for Automotive Air Conditioning. Applied Mechanics and Materials, 0, 819, 202-206.	0.2	1
106	Experimental Investigation on the Use of Secondary Refrigerant in Freezer for Energy Savings. Applied Mechanics and Materials, 0, 493, 233-238.	0.2	0
107	Numerical Analysis of Modified Ejector Cycle on Ejector as an Expansion Device on Residential Air Conditioner. Applied Mechanics and Materials, 2014, 554, 261-265.	0.2	0
108	The Effects of Alkaline Catalysts in Used Frying Oil Biodiesel on the Diesel Engine Performances. Applied Mechanics and Materials, 0, 554, 449-453.	0.2	0

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109	Optimization of Biodiesel Production from Transesterification of Waste Cooking Oils Using Alkaline Catalysts. Applied Mechanics and Materials, 0, 695, 289-292.	0.2	0
110	Lubricity of Palm Fatty Acid Distillates at Various Rotational Speeds. Applied Mechanics and Materials, 0, 606, 9-13.	0.2	0
111	THE PERFORMANCES OF A MODIFIED EJECTOR AIR CONDITIONING CYCLE. Jurnal Teknologi (Sciences and) Tj ETQq1 1 0.784314 rgBT 0.4	0.4	0
112	THE APPLICATION OF LASER IN THERMAL TREATMENT OF SOLID PARTICLES AND GAS-PHASE OF BIOMASS PROCESSING-A REVIEW. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	0
113	Analysis of an Airfoil Using a Transition and Turbulence Model. Applied Mechanics and Materials, 0, 819, 356-360.	0.2	0
114	Performance of Petrol Engine Using Gasoline-Ethanol-Methanol (GEM) Ternary Mixture as Alternative Fuel. Applied Mechanics and Materials, 0, 833, 41-48.	0.2	0
115	Process optimization of microwave assisted co-pyrolysis of coal and oil palm shell blend with carbon surfaces. IOP Conference Series: Materials Science and Engineering, 2018, 414, 012016.	0.6	0
116	A numerical Study of the Effect of FaÃ\$ade Opening on Nighttime Ventilation of a Low-Energy Building. , 2022, , .		0