

# Farid Nasir Ani

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

112  
papers

4,283  
citations

33  
h-index

64  
g-index

116  
ext. papers

4,935  
ext. citations

4.7  
avg, IF

6.27  
L-index

#	Paper	IF	Citations
112	Economic analysis of a novel solar-assisted air conditioning system with integral absorption energy storage. <i>Journal of Cleaner Production</i> , <b>2021</b> , 291, 125918	10.3	3
111	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> , <b>2021</b> , 21, 101291	7	14
110	Microwave pyrolysis for valorisation of horse manure biowaste. <i>Energy Conversion and Management</i> , <b>2020</b> , 220, 113074	10.6	33
109	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> , <b>2020</b> , 29, 101374	7.8	7
108	Antioxidants, Toxicity, and Nitric Oxide Inhibition Properties of Pyrolygneous Acid from Palm Kernel Shell Biomass. <i>Waste and Biomass Valorization</i> , <b>2020</b> , 11, 6307-6319	3.2	5
107	A detailed parametric study of a solar driven double-effect absorption chiller under various solar radiation data. <i>Journal of Cleaner Production</i> , <b>2020</b> , 251, 119750	10.3	10
106	Optimization studies of microwave-induced co-pyrolysis of empty fruit bunches/waste truck tire using response surface methodology. <i>Journal of Cleaner Production</i> , <b>2020</b> , 244, 118649	10.3	26
105	Microwave assisted acid hydrolysis for bioethanol fuel production from sago pith waste. <i>Waste Management</i> , <b>2019</b> , 86, 80-86	8.6	21
104	Microwave torrefaction for viable fuel production: A review on theory, affecting factors, potential and challenges. <i>Fuel</i> , <b>2019</b> , 253, 512-526	7.1	36
103	Microwave-induced pyrolysis of waste truck tyres with carbonaceous susceptor for the production of diesel-like fuel. <i>Journal of the Energy Institute</i> , <b>2019</b> , 92, 1831-1841	5.7	20
102	Pyrolysis characteristics and kinetic studies of horse manure using thermogravimetric analysis. <i>Energy Conversion and Management</i> , <b>2019</b> , 180, 1260-1267	10.6	134
101	Utilization of Oil Palm Fiber and Palm Kernel Shell in Various Applications <b>2018</b> , 45-56		4
100	Microwave-assisted production of optimized pyrolysis liquid oil from oil palm fiber. <i>Journal of Cleaner Production</i> , <b>2018</b> , 182, 404-413	10.3	39
99	Solar absorption systems with integrated absorption energy storage: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 82, 1602-1610	16.2	49
98	Combustion Performance of Diesel Palm Olein Fuel: A Combined CFD and Experimental Approach. <i>Arabian Journal for Science and Engineering</i> , <b>2018</b> , 43, 1291-1300	2.5	4
97	Pyrolysis characteristic of rice husk with plastic bag as fuel for power generation by using a thermogravimetric analysis. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2018</b> , 105, 012034	0.3	2
96	New composites based on low-density polyethylene and rice husk: Elemental and thermal characteristics. <i>Environmental Engineering Research</i> , <b>2018</b> , 23, 250-257	3.6	3

95	Process optimization of microwave assisted co-pyrolysis of coal and oil palm shell blend with carbon surfaces. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 414, 012016	0.4	
94	Production of liquid biofuels (biodiesel and bioethanol) from brown marine macroalgae <i>Padina tetrastromatica</i> . <i>Energy Conversion and Management</i> , <b>2017</b> , 135, 351-361	10.6	50
93	Microwave-assisted and carbonaceous catalytic pyrolysis of crude glycerol from biodiesel waste for energy production. <i>Energy Conversion and Management</i> , <b>2017</b> , 143, 399-409	10.6	35
92	Microwave dielectric properties of Malaysian palm oil and agricultural industrial biomass and biochar during pyrolysis process. <i>Fuel Processing Technology</i> , <b>2017</b> , 166, 164-173	7.2	34
91	ADVANCEMENT IN THE PRODUCTION OF ACTIVATED CARBON FROM BIOMASS USING MICROWAVE HEATING. <i>Jurnal Teknologi (Sciences and Engineering)</i> , <b>2017</b> , 79,	1.2	5
90	Microwave induced plasma for solid fuels and waste processing: A review on affecting factors and performance criteria. <i>Waste Management</i> , <b>2017</b> , 69, 423-430	8.6	16
89	Performance characteristics of a solar driven lithium bromide-water absorption chiller integrated with absorption energy storage. <i>Energy Conversion and Management</i> , <b>2017</b> , 150, 188-200	10.6	35
88	Optimization of microwave irradiated - coconut shell activated carbon using response surface methodology for adsorption of benzene and toluene. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 7881-7897	3	
87	Corrosive characteristics of bioethanol and gasoline blends for metals. <i>International Journal of Energy Research</i> , <b>2016</b> , 40, 1704-1711	4.5	5
86	Impact of metals on corrosive behavior of biodiesel-ethanol (BDE) alternative fuel. <i>Renewable Energy</i> , <b>2016</b> , 94, 1-9	8.1	35
85	Tribological Features of Refined, Deodorized, and Bleached Palm Olein with Mineral Oil Blend. <i>Tribology Transactions</i> , <b>2016</b> , 59, 671-678	1.8	6
84	Electroless nano zinc oxide-activate carbon composite supercapacitor electrode. <i>Journal of Electroceramics</i> , <b>2016</b> , 36, 122-128	1.5	9
83	Heat distortion temperature and mechanical properties of agricultural wastes-reinforced phenolic composites. <i>Journal of Polymer Engineering</i> , <b>2016</b> , 36, 641-647	1.4	1
82	Characteristic of Oil Palm Activated Carbon Produced from Microwave and Conventional Heating. <i>Applied Mechanics and Materials</i> , <b>2016</b> , 819, 606-611	0.3	3
81	The Tribological Characteristics of RBD Palm Olein with Jatropha Oil Blend Using Four-Ball Tribotester with Different Normal Loads. <i>Applied Mechanics and Materials</i> , <b>2016</b> , 819, 499-503	0.3	5
80	Fruit waste as feedstock for recovery by pyrolysis technique. <i>International Biodeterioration and Biodegradation</i> , <b>2016</b> , 113, 325-333	4.8	118
79	Review on bioethanol as alternative fuel for spark ignition engines. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 56, 820-835	16.2	132
78	Fuel production from microwave assisted pyrolysis of coal with carbon surfaces. <i>Energy Conversion and Management</i> , <b>2016</b> , 110, 142-153	10.6	46

77	Progress in waste oil to sustainable energy, with emphasis on pyrolysis techniques. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 53, 741-753	16.2	199
76	Sustainable Biofuels and Other Related Bio-Products from Palm Cultivations. <i>MATEC Web of Conferences</i> , <b>2016</b> , 77, 11005	0.3	1
75	HETEROGENEOUS TRANSESTERIFICATION OF RUBBER SEED OIL BIODIESEL PRODUCTION. <i>Jurnal Teknologi (Sciences and Engineering)</i> , <b>2016</b> , 78,	1.2	1
74	Analysis of an Airfoil Using a Transition and Turbulence Model. <i>Applied Mechanics and Materials</i> , <b>2016</b> , 819, 356-360	0.3	
73	Performance of Ejector Refrigeration Cycle for Automotive Air Conditioning. <i>Applied Mechanics and Materials</i> , <b>2016</b> , 819, 202-206	0.3	
72	Performance of Petrol Engine Using Gasoline-Ethanol-Methanol (GEM) Ternary Mixture as Alternative Fuel. <i>Applied Mechanics and Materials</i> , <b>2016</b> , 833, 41-48	0.3	
71	Optimization and characterization of bio-oil produced by microwave assisted pyrolysis of oil palm shell waste biomass with microwave absorber. <i>Bioresource Technology</i> , <b>2015</b> , 190, 442-50	11	93
70	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> , <b>2015</b> , 101, 778-786	10.6	61
69	Modified phyto-waste <i>Terminalia catappa</i> fruit shells: a reusable adsorbent for the removal of micropollutant diclofenac. <i>RSC Advances</i> , <b>2015</b> , 5, 30950-30962	3.7	49
68	Recent development in the production of activated carbon electrodes from agricultural waste biomass for supercapacitors: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 52, 1282-1293	16.2	441
67	The development supercapacitor from activated carbon by electroless plating A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 42, 823-834	16.2	246
66	Emissions from Petrol Engine Fueled Gasoline-Ethanol-Methanol (GEM) Ternary mixture as Alternative Fuel. <i>MATEC Web of Conferences</i> , <b>2015</b> , 27, 01010	0.3	0
65	MICROWAVE PLASMA GASIFICATION OF OIL PALM BIOCHAR. <i>Jurnal Teknologi (Sciences and Engineering)</i> , <b>2015</b> , 74,	1.2	2
64	Numerical and experimental study of an ejector as an expansion device in split-type air conditioner for energy savings. <i>Energy and Buildings</i> , <b>2014</b> , 79, 98-105	7	19
63	Microwave-assisted synthesis of metal oxide/hydroxide composite electrodes for high power supercapacitors A review. <i>Journal of Power Sources</i> , <b>2014</b> , 263, 338-360	8.9	314
62	Lubricity of Palm Fatty Acid Distillates at Various Rotational Speeds. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 606, 9-13	0.3	
61	Microwave Assisted Pyrolysis of Waste Biomass Resources for Bio-Oil Production. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 554, 307-311	0.3	9
60	The Performances of Intimately Mix and Layer Methods in Microwave Assisted Pyrolysis System. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 554, 150-154	0.3	2

59	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> , <b>2014</b> , 172, 186-193	11	24
58	Optimization and characterization of biodiesel production from microalgae <i>Botryococcus</i> grown at semi-continuous system. <i>Energy Conversion and Management</i> , <b>2014</b> , 88, 936-946	10.6	50
57	A review on microwave assisted pyrolysis of coal and biomass for fuel production. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 39, 555-574	16.2	212
56	Review of Limiting Issues in Industrialization and Scale-up of Microwave-Assisted Activated Carbon Production. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 12185-12191	3.9	17
55	Date palm waste gasification in downdraft gasifier and simulation using ASPEN HYSYS. <i>Energy Conversion and Management</i> , <b>2014</b> , 88, 693-699	10.6	45
54	Bioethanol production from sago pith waste using microwave hydrothermal hydrolysis accelerated by carbon dioxide. <i>Applied Energy</i> , <b>2014</b> , 128, 277-283	10.7	56
53	Potential Surplus of Rice Straw as a Source of Energy for Rural Communities in Indonesia. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 695, 806-810	0.3	4
52	The Tribological Characteristic of the Blends of Rbd Palm Olein with Mineral Oil Using Four-ball Tribotester. <i>Jurnal Teknologi (Sciences and Engineering)</i> , <b>2014</b> , 69,	1.2	6
51	Comparing Characteristics of Oil Palm Biochar Using Conventional and Microwave Heating. <i>Jurnal Teknologi (Sciences and Engineering)</i> , <b>2014</b> , 68,	1.2	8
50	The Effect of Flame Temperature, Nozzle Position and Swirl Gas on Microwave Plasma Flame. <i>Jurnal Teknologi (Sciences and Engineering)</i> , <b>2014</b> , 68,	1.2	1
49	Experimental Investigation on the Use of Secondary Refrigerant in Freezer for Energy Savings. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 493, 233-238	0.3	
48	Solid Waste Management and Treatment in Malaysia. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 699, 969-974	0.3	3
47	Exergy Analysis on a Split-Type Conditioner Using Ejector as an Expansion Device. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 699, 828-833	0.3	1
46	Thermodynamic Analysis of Ejector as an Expansion Device on Split-Type Air Conditioner Using R410A as Working Fluid. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 493, 227-232	0.3	1
45	Numerical Analysis of Modified Ejector Cycle on Ejector as an Expansion Device on Residential Air Conditioner. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 554, 261-265	0.3	
44	Evaluation of the Prospects of Using Solar Thermal Air-Conditioning Systems in Saudi Arabia. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 554, 271-275	0.3	5
43	The Effects of Alkaline Catalysts in Used Frying Oil Biodiesel on the Diesel Engine Performances. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 554, 449-453	0.3	
42	Performance and Emission of a Common Rail Passenger Car Engine Fuelled with Palm Oil Biodiesel. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 564, 66-71	0.3	1

41	Optimization of Biodiesel Production from Transesterification of Waste Cooking Oils Using Alkaline Catalysts. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 695, 289-292	0.3	
40	Combustion Characteristics Modeling of Rice Husk as Fuel for Power Plant in Indonesia. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 695, 815-819	0.3	3
39	Heterogeneous Microwave Irradiation Biodiesel Processing of Jatropha Oil. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 554, 500-504	0.3	4
38	Syngas Production from Microwave Gasification of Oil Palm Biochars. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 695, 247-250	0.3	5
37	Microwave Thermal Conversion of Oil Palm and Related Biomass for Biofuels and Biochars. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 606, 223-226	0.3	
36	Energy Savings in Air Conditioning System Using Ejector: An Overview. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 493, 93-98	0.3	4
35	Bio-Oils Characteristic from Oil Palm Biomass from Different Fast Pyrolysis Techniques. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 554, 266-270	0.3	2
34	Simulation of a Double-Effect Solar Absorption System for Traditional House in Yemen. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 695, 797-800	0.3	1
33	The Characteristics of Oil Palm Shell Biochar and Activated Carbon Produced via Microwave Heating. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 695, 12-15	0.3	9
32	Application of ANN to Predict S.I. Engine Performance and Emission Characteristics Fuelled Bioethanol. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 554, 454-458	0.3	3
31	Pyrolysis of Solid Palm Waste Biomass with Microwave Absorber under Microwave Irradiation. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 606, 73-77	0.3	3
30	Dielectric properties and microwave heating of oil palm biomass and biochar. <i>Industrial Crops and Products</i> , <b>2013</b> , 50, 366-374	5.9	93
29	Experimental and Simulation Study of Fluidization Behavior of Palm Biomass in a Circulating Fluidized Bed Riser. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 17529-17537	3.9	6
28	A new technique to pyrolyse biomass in a microwave system: effect of stirrer speed. <i>Bioresource Technology</i> , <b>2013</b> , 128, 578-85	11	66
27	Fossil fuel energy scenario in Malaysia-prospect of indigenous renewable biomass and coal resources <b>2013</b> ,		7
26	Wear Resistance Characteristic of Vegetable Oil. <i>Advanced Materials Research</i> , <b>2013</b> , 795, 42-46	0.5	2
25	The Utilization Potential of Rice Husk as an Alternative Energy Source for Power Plants in Indonesia. <i>Advanced Materials Research</i> , <b>2013</b> , 845, 494-498	0.5	8
24	Investigate Jatropha Oil as New Source of Lubricant Oil. <i>Applied Mechanics and Materials</i> , <b>2013</b> , 465-466, 201-205	0.3	8

23	Numerical Study of Ejector as an Expansion Device in Split-Type Air Conditioner. <i>Applied Mechanics and Materials</i> , <b>2013</b> , 388, 101-105	0.3	9
22	The Effects of Injection Parameters on the Performance of Common Rail Light Duty Engine Fueled with Palm Oil Biodiesel. <i>Applied Mechanics and Materials</i> , <b>2013</b> , 465-466, 322-326	0.3	2
21	Palm Fatty Acid Distillate as an Alternative Source for Hydraulic Oil. <i>Applied Mechanics and Materials</i> , <b>2013</b> , 315, 941-945	0.3	7
20	Numerical Study of an Ejector as an Expansion Device in Split-type Air Conditioners for Energy Savings. <i>Journal of Engineering and Technological Sciences</i> , <b>2013</b> , 45, 179-192	2.3	7
19	Microwave-assisted pyrolysis of oil palm shell biomass using an overhead stirrer. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2012</b> , 96, 162-172	6	115
18	Pyrolysis and combustion kinetics of date palm biomass using thermogravimetric analysis. <i>Bioresource Technology</i> , <b>2012</b> , 118, 382-9	11	237
17	The Performances of Fixed and Stirred Bed in Microwave Pyrolysis of Biomass. <i>APCBEE Procedia</i> , <b>2012</b> , 3, 188-193		4
16	Pyrolysis of oil palm empty fruit bunch biomass pellets using multimode microwave irradiation. <i>Bioresource Technology</i> , <b>2012</b> , 125, 102-7	11	96
15	Microwave irradiation biodiesel processing of waste cooking oil <b>2012</b> ,		5
14	Microwave induced fast pyrolysis of scrap rubber tires <b>2012</b> ,		4
13	Wear resistance evaluation of palm fatty acid distillate using four-ball tribotester <b>2012</b> ,		2
12	The application of gas ejector for road transport air conditioning system <b>2012</b> ,		2
11	Heating characteristics of biomass and carbonaceous materials under microwave radiation <b>2011</b> ,		6
10	Microwave induced pyrolysis of oil palm biomass. <i>Bioresource Technology</i> , <b>2011</b> , 102, 3388-95	11	223
9	A review on oil palm empty fruit bunch fiber-reinforced polymer composite materials. <i>Polymer Composites</i> , <b>2010</b> , 31, 2079-2101	3	101
8	Water Absorption of Lignocellulosic Phenolic Composites. <i>Polymers and Polymer Composites</i> , <b>2008</b> , 16, 379-387	0.8	5
7	Combustion modelling of an industrial municipal waste combustor in Malaysia. <i>International Journal of Environmental Studies</i> , <b>2006</b> , 63, 313-329	1.8	3
6	Preliminary Study on Combustion of Biodiesel for Power Generation <b>2006</b> , 29		2

5	Carbon molecular sieves produced from oil palm shell for air separation. <i>Separation and Purification Technology</i> , <b>2004</b> , 35, 47-54	8.3	35
4	Application of selective non-catalytic reduction of NOx in small-scale combustion systems. <i>Atmospheric Environment</i> , <b>2004</b> , 38, 6823-6828	5.3	8
3	Diffusional behavior and adsorption capacity of palm shell chars for oxygen and nitrogen: the effect of carbonization temperature. <i>Carbon</i> , <b>2003</b> , 41, 840-842	10.4	8
2	Preparing activated carbon from various nutshells by chemical activation with K <sub>2</sub> CO <sub>3</sub> . <i>Carbon</i> , <b>2002</b> , 40, 2381-2386	10.4	253
1	Pyrolytic oil from fluidised bed pyrolysis of oil palm shell and its characterisation. <i>Renewable Energy</i> , <b>1999</b> , 17, 73-84	8.1	103