

# Shaharin Anwar B Sulaiman

## List of Publications by Year in descending order

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97  
papers

2,310  
citations

236925

25  
h-index

233421

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97  
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97  
docs citations

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times ranked

2282  
citing authors

#	ARTICLE	IF	CITATIONS
1	Process optimization and economic evaluation of air gasification of Saudi Arabian date palm fronds for H <sub>2</sub> -rich syngas using response surface methodology. <i>Fuel</i> , 2022, 316, 123359.	6.4	18
2	BiLSTM Network-Based Approach for Solar Irradiance Forecasting in Continental Climate Zones. <i>Energies</i> , 2022, 15, 2226.	3.1	9
3	Modeling and parametric optimization of air catalytic co-gasification of wood-oil palm fronds blend for clean syngas (H <sub>2</sub> +CO) production. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 30559-30580.	7.1	19
4	Turbulence Characteristics of the Flexible Circular Cylinder Agitator. <i>Fluids</i> , 2021, 6, 238.	1.7	5
5	Syngas production from gasification and co-gasification of oil palm trunk and frond using a down-draft gasifier. <i>International Journal of Energy Research</i> , 2021, 45, 8103-8115.	4.5	9
6	Parametric analysis and optimization for the catalytic air gasification of palm kernel shell using coal bottom ash as catalyst. <i>Renewable Energy</i> , 2020, 145, 671-681.	8.9	53
7	Co-gasification of palm kernel shell and polystyrene plastic: Effect of different operating conditions. <i>Journal of the Energy Institute</i> , 2020, 93, 1045-1052.	5.3	41
8	Temporal variation of voids in waxy crude oil gel in the presence of temperature gradient. <i>Chemical Engineering Communications</i> , 2020, 207, 1403-1414.	2.6	5
9	Effects of temperature on the chemical composition of tars produced from the gasification of coconut and palm kernel shells using down-draft fixed-bed reactor. <i>Fuel</i> , 2020, 265, 116910.	6.4	18
10	Application of response surface methodology in catalytic co-gasification of palm wastes for bioenergy conversion using mineral catalysts. <i>Biomass and Bioenergy</i> , 2020, 132, 105418.	5.7	31
11	One-Month-Ahead Wind Speed Forecasting Using Hybrid AI Model for Coastal Locations. <i>IEEE Access</i> , 2020, 8, 198482-198493.	4.2	12
12	Air catalytic biomass (PKS) gasification in a fixed-bed down-draft gasifier using waste bottom ash as catalyst with NARX neural network modelling. <i>Computers and Chemical Engineering</i> , 2020, 142, 107048.	3.8	48
13	Co-gasification between coal/sawdust and coal/wood pellet: A parametric study using response surface methodology. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 15963-15976.	7.1	28
14	A critical review on the influence of process parameters in catalytic co-gasification: Current performance and challenges for a future prospectus. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110382.	16.4	53
15	Experimental investigation of compressibility of waxy crude oil subjected to static cooling. <i>Journal of Petroleum Science and Engineering</i> , 2019, 182, 106378.	4.2	7
16	Thermo-chemical conversion of waste glass into non-vitreous porous material for adsorption application. <i>Journal of Material Cycles and Waste Management</i> , 2019, 21, 1132-1143.	3.0	4
17	Catalytic and noncatalytic conversion of spent fat oil into combustible gases and liquids. <i>Journal of Renewable and Sustainable Energy</i> , 2019, 11, 023102.	2.0	3
18	Effect of particle size and temperature on gasification performance of coconut and palm kernel shells in down-draft fixed-bed reactor. <i>Energy</i> , 2019, 175, 931-940.	8.8	45

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19	Effect of various blended fuels on syngas quality and performance in catalytic co-gasification: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 105, 252-267.	16.4	99
20	Catalytic co-gasification of coconut shells and oil palm fronds blends in the presence of cement, dolomite, and limestone: Parametric optimization via Box Behnken Design. <i>Journal of the Energy Institute</i> , 2019, 92, 871-882.	5.3	43
21	Engine speed and air-fuel ratio effect on the combustion of methane augmented hydrogen rich syngas in DI SI engine. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 477-486.	7.1	31
22	Controlling nitrogen pollution via encapsulation of urea fertilizer in cross-linked corn starch. <i>BioResources</i> , 2019, 14, 7775-7789.	1.0	10
23	CONVERSION OF SPENT FAT OIL INTO LIQUID AND GASEOUS FUELS THROUGH CLINKER CATALYZED PYROLYSIS. <i>Brazilian Journal of Chemical Engineering</i> , 2019, 36, 949-957.	1.3	4
24	Flow start-up and transportation of waxy crude oil in pipelines-A review. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2018, 251, 69-87.	2.4	115
25	Cement catalyzed conversion of biomass into upgraded bio-oil through microwave metal interaction pyrolysis in aluminum coil reactor. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 129, 37-42.	5.5	12
26	Particle tracking velocimetry investigations on density dependent velocity vector profiles of a swirling fluidized bed. <i>Drying Technology</i> , 2017, 35, 193-202.	3.1	7
27	Using artificial neural networks to estimate solar radiation in Kuwait. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 72, 434-438.	16.4	75
28	Injection of non-reacting gas into production pipelines to ease restart pumping of waxy crude oil. <i>Journal of Petroleum Science and Engineering</i> , 2017, 152, 549-554.	4.2	13
29	Effect of fuel injection timing of hydrogen rich syngas augmented with methane in direct-injection spark-ignition engine. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 23846-23855.	7.1	20
30	Attributes of natural and synthetic materials pertaining to slow-release urea coating industry. <i>Reviews in Chemical Engineering</i> , 2017, 33, .	4.4	34
31	Effect of Urea and Borate Plasticizers on Rheological Response of Corn Starch. <i>Polymers</i> , 2017, 9, 361.	4.5	2
32	ABRASIVE EROSION STUDY ON S45C CARBON STEEL USING SAND BLASTING TECHNIQUE. <i>Surface Review and Letters</i> , 2016, 23, 1650035.	1.1	4
33	Conversion of waste soap and soap-like materials into diesel and gasoline by catalytic pyrolysis using virgin soap as model. <i>Canadian Journal of Chemical Engineering</i> , 2016, 94, 94-100.	1.7	7
34	Two-Step Pyrolysis of Spirogyra for Fuels Using Cement Catalytic. <i>Waste and Biomass Valorization</i> , 2016, 7, 1481-1489.	3.4	10
35	Erodent Impact Angle and Velocity Effects on Surface Morphology of Mild Steel. <i>Procedia Engineering</i> , 2016, 148, 896-901.	1.2	3
36	Particle Image Velocimetry of a Swirling Fluidized Bed at Different Blade Angles. <i>Chemical Engineering and Technology</i> , 2016, 39, 1151-1160.	1.5	10

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37	Slow release coating remedy for nitrogen loss from conventional urea: a review. <i>Journal of Controlled Release</i> , 2016, 225, 109-120.	9.9	360
38	Effect of injection timing on combustion, performance and emissions of lean-burn syngas (H <sub>2</sub> /CO) in spark-ignition direct-injection engine. <i>International Journal of Engine Research</i> , 2016, 17, 921-933.	2.3	11
39	Investigation of convective heat transfer coefficient and initial temperature of waxy crude oil on the formation of voids. <i>International Journal of Automotive and Mechanical Engineering</i> , 2016, 13, 3754-3762.	0.9	3
40	Sauter mean diameter statistics of the starch dispersion atomized with hydraulic nozzle. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	0
41	Real-time study on the effect of dust accumulation on performance of solar PV panels in Malaysia. , 2015, , .		19
42	Effects of cooling regime on the formation of voids in statically cooled waxy crude oil. <i>International Journal of Multiphase Flow</i> , 2015, 77, 187-195.	3.4	18
43	Estimation of gas void formation in statically cooled waxy crude oil using online capacitance measurement. <i>International Journal of Multiphase Flow</i> , 2015, 75, 257-266.	3.4	16
44	Methane enrichment of syngas (H <sub>2</sub> /CO) in a spark-ignition direct-injection engine: Combustion, performance and emissions comparison with syngas and Compressed Natural Gas. <i>Energy</i> , 2015, 90, 2006-2015.	8.8	43
45	Visual characterization of heated water spray jet breakup induced by full cone spray nozzles. <i>Journal of Applied Mechanics and Technical Physics</i> , 2015, 56, 211-219.	0.5	2
46	Hydrodynamics of multi-sized particles in stable regime of a swirling bed. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 2361-2367.	2.7	22
47	Effect of Preheating the Gasifying Inlet Air on the Hydrogen Output in Oil Palm Fronds Gasification. <i>Advanced Materials Research</i> , 2015, 1113, 625-630.	0.3	1
48	Effect of the borax mass and pre-spray medium temperature on droplet size and velocity vector distributions of intermittently sprayed starchy solutions. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 3704-3714.	2.8	6
49	Study on influence of flow rates on voids in waxy crude oil subjected to dynamic and static cooling. <i>Journal of Mechanical Engineering and Sciences</i> , 2015, 9, 1587-1594.	0.6	7
50	Time Function DualPDA Study of Spray Growth and Droplet Size-Velocity Profiles of Chemically Modified Tapioca Starch. <i>Aerosol and Air Quality Research</i> , 2015, 15, 1699-1711.	2.1	0
51	Influence of Fuel Moisture Content and Reactor Temperature on the Calorific Value of Syngas Resulted from Gasification of Oil Palm Fronds. <i>Scientific World Journal</i> , The, 2014, 2014, 1-9.	2.1	36
52	Study on Tar Generated from Downdraft Gasification of Oil Palm Fronds. <i>Scientific World Journal</i> , The, 2014, 2014, 1-8.	2.1	20
53	Surface Morphology and Dissolution Rate of Slow Discharge Urea Coated with Starch-Urea-Borax Matrix. <i>Polymer-Plastics Technology and Engineering</i> , 2014, 53, 1778-1787.	1.9	2
54	Effect of Air-fuel Ratio on the Combustion Characteristics of Syngas (H <sub>2</sub> :CO) in Direct-injection Spark-ignition Engine. <i>Energy Procedia</i> , 2014, 61, 2567-2571.	1.8	17

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55	On the Diversification of Feedstock in Gasification of Oil Palm Fronds. Journal of Mechanical Engineering and Sciences, 2014, 6, 907-915.	0.6	4
56	Study on co-gasification of oil palm fronds and wood. , 2014, , .		0
57	Comparative studies on catalytic and non-catalytic co-gasification of rubber seed shell and high density polyethylene mixtures. Journal of Cleaner Production, 2014, 70, 303-314.	9.3	61
58	Syngas (H <sub>2</sub> /CO) in a spark-ignition direct-injection engine. Part 1: Combustion, performance and emissions comparison with CNG. International Journal of Hydrogen Energy, 2014, 39, 17884-17895.	7.1	49
59	Scattering Effects in Laser Attenuation System for Measurement of Droplet Number Density. Energy Procedia, 2014, 50, 79-86.	1.8	5
60	Influence of Dirt Accumulation on Performance of PV Panels. Energy Procedia, 2014, 50, 50-56.	1.8	146
61	Gas void formation in statically cooled waxy crude oil. International Journal of Thermal Sciences, 2014, 86, 41-47.	4.9	32
62	Study of the effects of operating factors on the resulting producer gas of oil palm fronds gasification with a single throat downdraft gasifier. Renewable Energy, 2014, 72, 271-283.	8.9	48
63	Kinetic studies of co-pyrolysis of rubber seed shell with high density polyethylene. Energy Conversion and Management, 2014, 87, 746-753.	9.2	102
64	Trends of Syngas as a Fuel in Internal Combustion Engines. Advances in Mechanical Engineering, 2014, 6, 401587.	1.6	66
65	Syngas production from downdraft gasification of oil palm fronds. Energy, 2013, 61, 491-501.	8.8	104
66	Study on Indoor Air Quality of a Small Office in a Tropical Country. Applied Mechanics and Materials, 2013, 393, 827-831.	0.2	1
67	Study of Indoor Air Quality in Academic Buildings of a University. Applied Mechanics and Materials, 2013, 315, 389-393.	0.2	4
68	A Case Study on Indoor Comfort of Lecture Rooms in University Buildings. Applied Mechanics and Materials, 2013, 393, 821-826.	0.2	1
69	Experimental Investigation of A Twin Shaft Micro Gas-Turbine System. IOP Conference Series: Earth and Environmental Science, 2013, 16, 012011.	0.3	0
70	Thermal Radiation Effects on Unsteady MHD Natural Convection Flow Past an Infinite Inclined Plate with Ramped Temperature. Advanced Science Letters, 2013, 19, 296-300.	0.2	3
71	Downdraft Gasification of Oil Palm Frond: Effects of Temperature and Operation Time. Asian Journal of Scientific Research, 2013, 6, 197-206.	0.1	14
72	Mitigation of Bridging Problem in Biomass Gasification by a Novel Approach. Asian Journal of Scientific Research, 2013, 6, 331-338.	0.1	4

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73	Solar Radiation Simulation by Using Zero-dimensional Climate Model. Asian Journal of Scientific Research, 2013, 6, 353-359.	0.1	0
74	Experimental study on temperature profile of fixed bed gasification of oil-palm fronds. , 2012, , .		7
75	Combustion performance of cellulosic biomass in a gasifier-based cookstove. , 2012, , .		1
76	Elemental and thermo-chemical analysis of oil palm fronds for biomass energy conversion. AIP Conference Proceedings, 2012, , .	0.4	9
77	Gasification and effect of gasifying temperature on syngas quality and tar generation: A short review. AIP Conference Proceedings, 2012, , .	0.4	7
78	Heat transfer in a swirling fluidized bed with geldart type-D particles. Korean Journal of Chemical Engineering, 2012, 29, 862-867.	2.7	21
79	Combustion Characteristics of Late Injected CNG in a Spark Ignition Engine under Lean Operating Condition. Journal of Applied Sciences, 2012, 12, 2368-2375.	0.3	19
80	Bubbles Size Estimation in Liquid Flow Through a Vertical Pipe. Journal of Applied Sciences, 2012, 12, 2464-2468.	0.3	3
81	Causal Model for Peak and Off Peak Waste Heat Recovery for Chilled Water Production. Journal of Applied Sciences, 2012, 12, 2636-2640.	0.3	4
82	Prediction of calorific value of syngas produced from oil-palm fronds gasification. , 2011, , .		4
83	Preliminary study of the zero-dimensional climate modeling using numerical method. , 2011, , .		0
84	An Experimental Study of Different Effects of EGR Rates on The Performance And Exhaust Emissions of The Stratified Charge Piston Direct Injection Compressed Natural Gas Engine. Journal of Applied Sciences, 2011, 11, 1479-1490.	0.3	10
85	A Simulation Study of Downdraft Gasification of Oil-Palm Fronds using ASPEN PLUS. Journal of Applied Sciences, 2011, 11, 1913-1920.	0.3	43
86	A Study on the Impact of Operational Behavior on Cooling Energy in Highly-Glazed Academic Buildings in a Tropical Country. Trends in Applied Sciences Research, 2011, 6, 1256-1269.	0.4	3
87	Automated Calculations for Improvement of Tank Inventory at Fuel Terminals. Journal of Applied Sciences, 2011, 11, 1770-1776.	0.3	0
88	Modeling and simulation study of downdraft gasifier using oil-palm fronds. , 2009, , .		9
89	Operating Characteristics of Gasifier Cookstove Using Different Biomass Materials. Applied Mechanics and Materials, 0, 393, 516-521.	0.2	1
90	Experimental Study of Airless Spray Jet Breakup at Elevated Temperature and Pressure. Applied Mechanics and Materials, 0, 393, 711-716.	0.2	7

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91	A Study on IAQ in a Welding Laboratory. Applied Mechanics and Materials, 0, 393, 947-952.	0.2	1
92	Comparative Study of the Hydrodynamic Performance of Shorter and Longer Blades in a Swirling Fluidized Bed. Advanced Materials Research, 0, 772, 560-565.	0.3	1
93	Kinetic Analysis on Catalytic Co-Gasification of Rubber Seed Shell and High Density Polyethylene Mixtures. Applied Mechanics and Materials, 0, 625, 251-254.	0.2	0
94	Comparison Studies of Criado and Coats-Redfern Methods for Co-Gasification of Rubber Seed Shell with High Density Polyethylene Mixtures. Applied Mechanics and Materials, 0, 472, 621-625.	0.2	4
95	Impacts of Cooling Rates on Voids in Waxy Crude Oil under Quiescent Cooling Mode. Applied Mechanics and Materials, 0, 799-800, 62-66.	0.2	8
96	Performance Evaluation of a Variable Geometry Gas Turbine in a CHP Plant. Applied Mechanics and Materials, 0, 798, 59-63.	0.2	0
97	H <sub>2</sub> -rich syngas production from air gasification of date palm waste: an experimental and modeling investigation. Biomass Conversion and Biorefinery, 0, , 1.	4.6	14