

# Shaharin Anwar B Sulaiman

## List of Publications by Year in descending order

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Version: 2024-02-01

97  
papers

2,310  
citations

236925

25  
h-index

233421

45  
g-index

97  
all docs

97  
docs citations

97  
times ranked

2282  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Influence of Dirt Accumulation on Performance of PV Panels. <i>Energy Procedia</i> , 2014, 50, 50-56.	1.8	146
3	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
4	Syngas production from downdraft gasification of oil palm fronds. <i>Energy</i> , 2013, 61, 491-501.	8.8	104
5	Kinetic studies of co-pyrolysis of rubber seed shell with high density polyethylene. <i>Energy Conversion and Management</i> , 2014, 87, 746-753.	9.2	102
6	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
7	Using artificial neural networks to estimate solar radiation in Kuwait. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 72, 434-438.	16.4	75
8	Trends of Syngas as a Fuel in Internal Combustion Engines. <i>Advances in Mechanical Engineering</i> , 2014, 6, 401587.	1.6	66
9	Comparative studies on catalytic and non-catalytic co-gasification of rubber seed shell and high density polyethylene mixtures. <i>Journal of Cleaner Production</i> , 2014, 70, 303-314.	9.3	61
10	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
11	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
12	Syngas (H <sub>2</sub> /CO) in a spark-ignition direct-injection engine. Part 1: Combustion, performance and emissions comparison with CNG. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 17884-17895.	7.1	49
13	Study of the effects of operating factors on the resulting producer gas of oil palm fronds gasification with a single throat downdraft gasifier. <i>Renewable Energy</i> , 2014, 72, 271-283.	8.9	48
14	Air catalytic biomass (PKS) gasification in a fixed-bed downdraft gasifier using waste bottom ash as catalyst with NARX neural network modelling. <i>Computers and Chemical Engineering</i> , 2020, 142, 107048.	3.8	48
15	Effect of particle size and temperature on gasification performance of coconut and palm kernel shells in downdraft fixed-bed reactor. <i>Energy</i> , 2019, 175, 931-940.	8.8	45
16	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
17	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
18	A Simulation Study of Downdraft Gasification of Oil-Palm Fronds using ASPEN PLUS. <i>Journal of Applied Sciences</i> , 2011, 11, 1913-1920.	0.3	43

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19	Co-gasification of palm kernel shell and polystyrene plastic: Effect of different operating conditions. Journal of the Energy Institute, 2020, 93, 1045-1052.	5.3	41
20	Influence of Fuel Moisture Content and Reactor Temperature on the Calorific Value of Syngas Resulted from Gasification of Oil Palm Fronds. Scientific World Journal, The, 2014, 2014, 1-9.	2.1	36
21	Attributes of natural and synthetic materials pertaining to slow-release urea coating industry. Reviews in Chemical Engineering, 2017, 33, .	4.4	34
22	Gas void formation in statically cooled waxy crude oil. International Journal of Thermal Sciences, 2014, 86, 41-47.	4.9	32
23	Engine speed and air-fuel ratio effect on the combustion of methane augmented hydrogen rich syngas in DI SI engine. International Journal of Hydrogen Energy, 2019, 44, 477-486.	7.1	31
24	Application of response surface methodology in catalytic co-gasification of palm wastes for bioenergy conversion using mineral catalysts. Biomass and Bioenergy, 2020, 132, 105418.	5.7	31
25	Co-gasification between coal/sawdust and coal/wood pellet: A parametric study using response surface methodology. International Journal of Hydrogen Energy, 2020, 45, 15963-15976.	7.1	28
26	Hydrodynamics of multi-sized particles in stable regime of a swirling bed. Korean Journal of Chemical Engineering, 2015, 32, 2361-2367.	2.7	22
27	Heat transfer in a swirling fluidized bed with geldart type-D particles. Korean Journal of Chemical Engineering, 2012, 29, 862-867.	2.7	21
28	Study on Tar Generated from Downdraft Gasification of Oil Palm Fronds. Scientific World Journal, The, 2014, 2014, 1-8.	2.1	20
29	Effect of fuel injection timing of hydrogen rich syngas augmented with methane in direct-injection spark-ignition engine. International Journal of Hydrogen Energy, 2017, 42, 23846-23855.	7.1	20
30	Real-time study on the effect of dust accumulation on performance of solar PV panels in Malaysia. , 2015, , .		19
31	Modeling and parametric optimization of air catalytic co-gasification of wood-oil palm fronds blend for clean syngas (H <sub>2</sub> +CO) production. International Journal of Hydrogen Energy, 2021, 46, 30559-30580.	7.1	19
32	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
33	Effects of cooling regime on the formation of voids in statically cooled waxy crude oil. International Journal of Multiphase Flow, 2015, 77, 187-195.	3.4	18
34	Effects of temperature on the chemical composition of tars produced from the gasification of coconut and palm kernel shells using downdraft fixed-bed reactor. Fuel, 2020, 265, 116910.	6.4	18
35	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. Fuel, 2022, 316, 123359.	6.4	18
36	Effect of Air-fuel Ratio on the Combustion Characteristics of Syngas (H <sub>2</sub> :CO) in Direct-injection Spark-ignition Engine. Energy Procedia, 2014, 61, 2567-2571.	1.8	17

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37	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
38	Downdraft Gasification of Oil Palm Frond: Effects of Temperature and Operation Time. <i>Asian Journal of Scientific Research</i> , 2013, 6, 197-206.	0.1	14
39	H <sub>2</sub> -rich syngas production from air gasification of date palm waste: an experimental and modeling investigation. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	4.6	14
40	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
41	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
42	One-Month-Ahead Wind Speed Forecasting Using Hybrid AI Model for Coastal Locations. <i>IEEE Access</i> , 2020, 8, 198482-198493.	4.2	12
43	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
44	Two-Step Pyrolysis of Spirogyra for Fuels Using Cement Catalytic. <i>Waste and Biomass Valorization</i> , 2016, 7, 1481-1489.	3.4	10
45	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
46	Controlling nitrogen pollution via encapsulation of urea fertilizer in cross-linked corn starch. <i>BioResources</i> , 2019, 14, 7775-7789.	1.0	10
47	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. <i>Journal of Applied Sciences</i> , 2011, 11, 1479-1490.	0.3	10
48	Modeling and simulation study of downdraft gasifier using oil-palm fronds. , 2009, , .		9
49	Elemental and thermo-chemical analysis of oil palm fronds for biomass energy conversion. <i>AIP Conference Proceedings</i> , 2012, , .	0.4	9
50	Syngas production from gasification and <sc>coâ€gasification</sc> of oil palm trunk and frond using a <sc>downâ€draft</sc> gasifier. <i>International Journal of Energy Research</i> , 2021, 45, 8103-8115.	4.5	9
51	BiLSTM Network-Based Approach for Solar Irradiance Forecasting in Continental Climate Zones. <i>Energies</i> , 2022, 15, 2226.	3.1	9
52	Impacts of Cooling Rates on Voids in Waxy Crude Oil under Quiescent Cooling Mode. <i>Applied Mechanics and Materials</i> , 0, 799-800, 62-66.	0.2	8
53	Experimental study on temperature profile of fixed â€ bed gasification of oil-palm fronds. , 2012, , .		7
54	Gasification and effect of gasifying temperature on syngas quality and tar generation: A short review. <i>AIP Conference Proceedings</i> , 2012, , .	0.4	7

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55	Experimental Study of Airless Spray Jet Breakup at Elevated Temperature and Pressure. Applied Mechanics and Materials, 0, 393, 711-716.	0.2	7
56	Conversion of waste soap and soap-like materials into diesel and gasoline by catalytic pyrolysis using virgin soap as model. Canadian Journal of Chemical Engineering, 2016, 94, 94-100.	1.7	7
57	Particle tracking velocimetry investigations on density dependent velocity vector profiles of a swirling fluidized bed. Drying Technology, 2017, 35, 193-202.	3.1	7
58	Experimental investigation of compressibility of waxy crude oil subjected to static cooling. Journal of Petroleum Science and Engineering, 2019, 182, 106378.	4.2	7
59	Study on influence of flow rates on voids in waxy crude oil subjected to dynamic and static cooling. Journal of Mechanical Engineering and Sciences, 2015, 9, 1587-1594.	0.6	7
60	Effect of the borax mass and pre-spray medium temperature on droplet size and velocity vector distributions of intermittently sprayed starchy solutions. Physical Chemistry Chemical Physics, 2015, 17, 3704-3714.	2.8	6
61	Scattering Effects in Laser Attenuation System for Measurement of Droplet Number Density. Energy Procedia, 2014, 50, 79-86.	1.8	5
62	Temporal variation of voids in waxy crude oil gel in the presence of temperature gradient. Chemical Engineering Communications, 2020, 207, 1403-1414.	2.6	5
63	Turbulence Characteristics of the Flexible Circular Cylinder Agitator. Fluids, 2021, 6, 238.	1.7	5
64	Prediction of calorific value of syngas produced from oil-palm fronds gasification. , 2011, , .		4
65	Study of Indoor Air Quality in Academic Buildings of a University. Applied Mechanics and Materials, 2013, 315, 389-393.	0.2	4
66	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
67	On the Diversification of Feedstock in Gasification of Oil Palm Fronds. Journal of Mechanical Engineering and Sciences, 2014, 6, 907-915.	0.6	4
68	ABRASIVE EROSION STUDY ON S45C CARBON STEEL USING SAND BLASTING TECHNIQUE. Surface Review and Letters, 2016, 23, 1650035.	1.1	4
69	Thermo-chemical conversion of waste glass into non-vitreous porous material for adsorption application. Journal of Material Cycles and Waste Management, 2019, 21, 1132-1143.	3.0	4
70	Mitigation of Bridging Problem in Biomass Gasification by a Novel Approach. Asian Journal of Scientific Research, 2013, 6, 331-338.	0.1	4
71	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
72	CONVERSION OF SPENT FAT OIL INTO LIQUID AND GASEOUS FUELS THROUGH CLINKER CATALYZED PYROLYSIS. Brazilian Journal of Chemical Engineering, 2019, 36, 949-957.	1.3	4

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73	Erodent Impact Angle and Velocity Effects on Surface Morphology of Mild Steel. Procedia Engineering, 2016, 148, 896-901.	1.2	3
74	Catalytic and noncatalytic conversion of spent fat oil into combustible gases and liquids. Journal of Renewable and Sustainable Energy, 2019, 11, 023102.	2.0	3
75	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
76	Investigation of convective heat transfer coefficient and initial temperature of waxy crude oil on the formation of voids. International Journal of Automotive and Mechanical Engineering, 2016, 13, 3754-3762.	0.9	3
77	Bubbles Size Estimation in Liquid Flow Through a Vertical Pipe. Journal of Applied Sciences, 2012, 12, 2464-2468.	0.3	3
78	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
79	Surface Morphology and Dissolution Rate of Slow Discharge Urea Coated with Starch-Urea-Borax Matrix. Polymer-Plastics Technology and Engineering, 2014, 53, 1778-1787.	1.9	2
80	Visual characterization of heated water spray jet breakup induced by full cone spray nozzles. Journal of Applied Mechanics and Technical Physics, 2015, 56, 211-219.	0.5	2
81	Effect of Urea and Borate Plasticizers on Rheological Response of Corn Starch. Polymers, 2017, 9, 361.	4.5	2
82	Combustion performance of cellulosic biomass in a gasifier-based cookstove. , 2012, , .		1
83	Operating Characteristics of Gasifier Cookstove Using Different Biomass Materials. Applied Mechanics and Materials, 0, 393, 516-521.	0.2	1
84	Study on Indoor Air Quality of a Small Office in a Tropical Country. Applied Mechanics and Materials, 2013, 393, 827-831.	0.2	1
85	A Study on IAQ in a Welding Laboratory. Applied Mechanics and Materials, 0, 393, 947-952.	0.2	1
86	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
87	A Case Study on Indoor Comfort of Lecture Rooms in University Buildings. Applied Mechanics and Materials, 2013, 393, 821-826.	0.2	1
88	Effect of Preheating the Gasifying Inlet Air on the Hydrogen Output in Oil Palm Fronds Gasification. Advanced Materials Research, 2015, 1113, 625-630.	0.3	1
89	Preliminary study of the zero-dimensional climate modeling using numerical method. , 2011, , .		0
90	Experimental Investigation of A Twin Shaft Micro Gas-Turbine System. IOP Conference Series: Earth and Environmental Science, 2013, 16, 012011.	0.3	0

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91	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
92	Study on co-gasification of oil palm fronds and wood. , 2014, , .		0
93	Sauter mean diameter statistics of the starch dispersion atomized with hydraulic nozzle. AIP Conference Proceedings, 2015, , .	0.4	0
94	Performance Evaluation of a Variable Geometry Gas Turbine in a CHP Plant. Applied Mechanics and Materials, 0, 798, 59-63.	0.2	0
95	Automated Calculations for Improvement of Tank Inventory at Fuel Terminals. Journal of Applied Sciences, 2011, 11, 1770-1776.	0.3	0
96	Solar Radiation Simulation by Using Zero-dimensional Climate Model. Asian Journal of Scientific Research, 2013, 6, 353-359.	0.1	0
97	Time Function DualPDA Study of Spray Growth and Droplet Size-Velocity Profiles of Chemically Modified Tapioca Starch. Aerosol and Air Quality Research, 2015, 15, 1699-1711.	2.1	0