

Ilman Nuran Zaini

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

947
citations

361413

20
h-index

454955

30
g-index

36
all docs

36
docs citations

36
times ranked

919
citing authors

#	ARTICLE	IF	CITATIONS
1	Cogeneration of power and H ₂ by steam gasification and syngas chemical looping of macroalgae. <i>Applied Energy</i> , 2017, 207, 134-145.	10.1	86
2	Novel configuration of supercritical water gasification and chemical looping for highly-efficient hydrogen production from microalgae. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 112, 369-381.	16.4	73
3	Energy conservative brown coal conversion to hydrogen and power based on enhanced process integration: Integrated drying, coal direct chemical looping, combined cycle and hydrogenation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 2904-2913.	7.1	69
4	Stepwise pyrolysis of mixed plastics and paper for separation of oxygenated and hydrocarbon condensates. <i>Applied Energy</i> , 2018, 229, 314-325.	10.1	61
5	Investigation of the physical characteristics of washed hydrochar pellets made from empty fruit bunch. <i>Fuel Processing Technology</i> , 2017, 160, 109-120.	7.2	56
6	Production of H ₂ -rich syngas from excavated landfill waste through steam co-gasification with biochar. <i>Energy</i> , 2020, 207, 118208.	8.8	42
7	Use of the Kalina cycle as a bottoming cycle in a geothermal power plant: Case study of the Wayang Windu geothermal power plant. <i>Applied Thermal Engineering</i> , 2018, 132, 686-696.	6.0	38
8	Hydrothermal treatment of palm oil empty fruit bunches: an investigation of the solid fuel and liquid organic fertilizer applications. <i>Biofuels</i> , 2016, 7, 627-636.	2.4	33
9	Characterization of pyrolysis products of high-ash excavated-waste and its char gasification reactivity and kinetics under a steam atmosphere. <i>Waste Management</i> , 2019, 97, 149-163.	7.4	33
10	Evaluation of Hydrothermal Treatment of Empty Fruit Bunch for Solid Fuel and Liquid Organic Fertilizer Co-Production. <i>Energy Procedia</i> , 2015, 79, 226-232.	1.8	32
11	Pyrolysis of excavated waste from landfill mining: Characterisation of the process products. <i>Journal of Cleaner Production</i> , 2021, 279, 123541.	9.3	31
12	Municipal solid waste processing and separation employing wet torrefaction for alternative fuel production and aluminum reclamation. <i>Waste Management</i> , 2017, 67, 106-120.	7.4	30
13	The evolution and formation of tar species in a downdraft gasifier: Numerical modelling and experimental validation. <i>Biomass and Bioenergy</i> , 2019, 130, 105377.	5.7	29
14	Low-potassium Fuel Production from Empty Fruit Bunches by Hydrothermal Treatment Processing and Water Leaching. <i>Energy Procedia</i> , 2015, 75, 584-589.	1.8	28
15	Thermal tar cracking enhanced by cold plasma "A study of naphthalene as tar surrogate. <i>Energy Conversion and Management</i> , 2020, 208, 112540.	9.2	28
16	Characterization of potential liquid fertilizers obtained by hydrothermal treatment of chicken feathers. <i>Environmental Progress and Sustainable Energy</i> , 2018, 37, 375-382.	2.3	26
17	Synergistic effect of the co-pyrolysis of cardboard and polyethylene: A kinetic and thermodynamic study. <i>Energy</i> , 2021, 229, 120693.	8.8	26
18	CO ₂ Cogasification of Coal and Algae in a Downdraft Fixed-Bed Gasifier: Effect of CO ₂ Partial Pressure and Blending Ratio. <i>Energy & Fuels</i> , 2017, 31, 2927-2933.	5.1	24

#	ARTICLE	IF	CITATIONS
19	Microalgae-based coproduction of ammonia and power employing chemical looping process. <i>Chemical Engineering Research and Design</i> , 2019, 146, 311-323.	5.6	24
20	Production of hydrogen from algae: Integrated gasification and chemical looping. <i>Energy Procedia</i> , 2017, 142, 210-215.	1.8	22
21	A machine learning model to predict the pyrolytic kinetics of different types of feedstocks. <i>Energy Conversion and Management</i> , 2022, 260, 115613.	9.2	19
22	Production of Low-Potassium Solid Fuel from Empty Fruit Bunches (EFB) by Employing Hydrothermal Treatment and Water Washing Process. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2015, 94, 775-780.	0.2	18
23	Simulation and Experimental Study on Effect of Phase Change Material Thickness to Reduce Temperature of Photovoltaic Panel. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 88, 012049.	0.6	17
24	Novel carbon-negative methane production via integrating anaerobic digestion and pyrolysis of organic fraction of municipal solid waste. <i>Energy Conversion and Management</i> , 2022, 252, 115042.	9.2	17
25	Renewable hydrogen production from the organic fraction of municipal solid waste through a novel carbon-negative process concept. <i>Energy</i> , 2022, 252, 124056.	8.8	15
26	Primary fragmentation behavior of refuse derived fuel pellets during rapid pyrolysis. <i>Fuel Processing Technology</i> , 2021, 216, 106796.	7.2	14
27	Creating Values from Biomass Pyrolysis in Sweden: Co-Production of H ₂ , Biocarbon and Bio-Oil. <i>Processes</i> , 2021, 9, 415.	2.8	11
28	Experimental Verification of Interfacial Strength Effect on the Mechanical Properties of Carbon Fiber-Epoxy Composite. <i>International Journal on Advanced Science, Engineering and Information Technology</i> , 2017, 7, 2226.	0.4	10
29	Reforming processes for syngas production: A mini-review on the current status, challenges, and prospects for biomass conversion to fuels. <i>Applications in Energy and Combustion Science</i> , 2022, 10, 100064.	1.5	10
30	Steam gasification of solid recovered fuel char derived from landfill waste: A kinetic study. <i>Energy Procedia</i> , 2017, 142, 723-729.	1.8	8
31	Seashell waste-derived materials for secondary catalytic tar reduction in municipal solid waste gasification. <i>Biomass and Bioenergy</i> , 2020, 143, 105828.	5.7	7
32	Energy-efficient Conversion of Microalgae to Hydrogen and Power. <i>Energy Procedia</i> , 2017, 105, 453-458.	1.8	6
33	Dual-stage chemical looping of microalgae for methanol production with negative-carbon emission. <i>Energy Procedia</i> , 2019, 158, 842-847.	1.8	2
34	Algae to Hydrogen: Novel Energy-Efficient Co-Production of Hydrogen and Power. , 2017, , 459-486.		1
35	Hydrogen Production from Algal Pathways. , 2019, , 975-1002.		1
36	Hydrogen Production from Algal Pathways. , 2018, , 1-28.		0