

Haslenda Hashim

List of Publications by Year in descending order

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138
papers

6,248
citations

94415

37
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74160

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139
all docs

139
docs citations

139
times ranked

6574
citing authors

#	ARTICLE	IF	CITATIONS
1	Biogas as a renewable energy fuel – A review of biogas upgrading, utilisation and storage. <i>Energy Conversion and Management</i> , 2017, 150, 277-294.	9.2	520
2	A review on utilisation of biomass from rice industry as a source of renewable energy. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 3084-3094.	16.4	480
3	Energy, economic and environmental (3E) analysis of waste-to-energy (WTE) strategies for municipal solid waste (MSW) management in Malaysia. <i>Energy Conversion and Management</i> , 2015, 102, 111-120.	9.2	267
4	Potential of biogas production from farm animal waste in Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 60, 714-723.	16.4	258
5	Review of pre-combustion capture and ionic liquid in carbon capture and storage. <i>Applied Energy</i> , 2016, 183, 1633-1663.	10.1	245
6	A holistic low carbon city indicator framework for sustainable development. <i>Applied Energy</i> , 2017, 185, 1919-1930.	10.1	230
7	Economic and environmental benefits of landfill gas from municipal solid waste in Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 2907-2912.	16.4	219
8	Review of distributed generation (DG) system planning and optimisation techniques: Comparison of numerical and mathematical modelling methods. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 67, 531-573.	16.4	212
9	Renewable energy policies and initiatives for a sustainable energy future in Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 4780-4787.	16.4	179
10	Sustaining the low-carbon emission development in Asia and beyond: Sustainable energy, water, transportation and low-carbon emission technology. <i>Journal of Cleaner Production</i> , 2017, 146, 1-13.	9.3	151
11	Energy and emissions benefits of renewable energy derived from municipal solid waste: Analysis of a low carbon scenario in Malaysia. <i>Applied Energy</i> , 2014, 136, 797-804.	10.1	140
12	Optimal process network for municipal solid waste management in Iskandar Malaysia. <i>Journal of Cleaner Production</i> , 2014, 71, 48-58.	9.3	140
13	Low carbon measures for cement plant – a review. <i>Journal of Cleaner Production</i> , 2015, 103, 260-274.	9.3	127
14	The challenges and prospects of palm oil based biodiesel in Malaysia. <i>Energy</i> , 2015, 81, 255-261.	8.8	107
15	Review on the renewable energy and solid waste management policies towards biogas development in Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 70, 988-998.	16.4	106
16	Optimal planning of renewable energy-integrated electricity generation schemes with CO ₂ reduction target. <i>Renewable Energy</i> , 2010, 35, 2562-2570.	8.9	104
17	Design of distributed energy system through Electric System Cascade Analysis (ESCA). <i>Applied Energy</i> , 2012, 99, 309-315.	10.1	95
18	Optimization Model for Energy Planning with CO ₂ Emission Considerations. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 879-890.	3.7	93

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19	Progress and challenges in utilization of palm oil biomass as fuel for decentralized electricity generation. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 574-583.	16.4	87
20	A source of renewable energy in Malaysia, why biodiesel?. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 35, 244-257.	16.4	82
21	Optimal scheduling of energy storage for renewable energy distributed energy generation system. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 58, 1100-1107.	16.4	81
22	A novel design for green and economical cement manufacturing. <i>Journal of Cleaner Production</i> , 2012, 22, 60-66.	9.3	76
23	Opportunities and challenges: Landfill gas to biomethane injection into natural gas distribution grid through pipeline. <i>Journal of Cleaner Production</i> , 2018, 175, 409-419.	9.3	74
24	Municipal Solid Waste Management and Potential Revenue from Recycling in Malaysia. <i>Modern Applied Science</i> , 2014, 8, .	0.6	62
25	Economical and Environmental Impact of Waste-to-Energy (WTE) Alternatives for Waste Incineration, Landfill and Anaerobic Digestion. <i>Energy Procedia</i> , 2014, 61, 704-708.	1.8	62
26	A Review of Flash Point Prediction Models for Flammable Liquid Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 12553-12565.	3.7	61
27	Projection of CO ₂ emissions in Malaysia. <i>Environmental Progress and Sustainable Energy</i> , 2011, 30, 658-665.	2.3	59
28	Numerical Descriptive Inherent Safety Technique (NuDIST) for inherent safety assessment in petrochemical industry. <i>Chemical Engineering Research and Design</i> , 2014, 92, 379-389.	5.6	57
29	Waste Management Pinch Analysis (WAMPA): Application of Pinch Analysis for greenhouse gas (GHG) emission reduction in municipal solid waste management. <i>Applied Energy</i> , 2017, 185, 1481-1489.	10.1	55
30	Simulation based programming for optimization of large-scale rainwater harvesting system: Malaysia case study. <i>Resources, Conservation and Recycling</i> , 2013, 80, 1-9.	10.8	54
31	Optimization of a standalone photovoltaic-based microgrid with electrical and hydrogen loads. <i>Energy</i> , 2021, 235, 121218.	8.8	52
32	Economical, environmental friendly synthesis, characterization for the production of zeolitic imidazolate framework-8 (ZIF-8) nanoparticles with enhanced CO ₂ adsorption. <i>Arabian Journal of Chemistry</i> , 2018, 11, 1072-1083.	4.9	50
33	Electric System Cascade Analysis (ESCA): Solar PV system. <i>International Journal of Electrical Power and Energy Systems</i> , 2014, 54, 481-486.	5.5	48
34	Structural transition from two-dimensional ZIF-L to three-dimensional ZIF-8 nanoparticles in aqueous room temperature synthesis with improved CO ₂ adsorption. <i>Materials Characterization</i> , 2018, 136, 407-416.	4.4	48
35	A multi-objective model to optimize country-scale municipal solid waste management with economic and environmental objectives: A case study in Malaysia. <i>Journal of Cleaner Production</i> , 2021, 316, 128366.	9.3	43
36	SAHPPA: a novel power pinch analysis approach for the design of off-grid hybrid energy systems. <i>Clean Technologies and Environmental Policy</i> , 2014, 16, 957-970.	4.1	42

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37	A cleaner and greener fuel: Biofuel blend formulation and emission assessment. <i>Journal of Cleaner Production</i> , 2017, 146, 208-217.	9.3	38
38	Spatial optimisation of oil palm biomass co-firing for emissions reduction in coal-fired power plant. <i>Journal of Cleaner Production</i> , 2018, 172, 3428-3447.	9.3	37
39	Targeting and scheduling of standalone renewable energy system with liquid organic hydrogen carrier as energy storage. <i>Energy</i> , 2021, 218, 119475.	8.8	37
40	A graphical method for assessing inherent safety during research and development phase of process design. <i>Journal of Loss Prevention in the Process Industries</i> , 2016, 42, 59-69.	3.3	36
41	Design of green diesel from biofuels using computer aided technique. <i>Computers and Chemical Engineering</i> , 2012, 41, 88-92.	3.8	34
42	Modelling and optimization of CO2 abatement strategies. <i>Journal of Cleaner Production</i> , 2014, 71, 40-47.	9.3	34
43	Towards low carbon society in Iskandar Malaysia: Implementation and feasibility of community organic waste composting. <i>Journal of Environmental Management</i> , 2017, 203, 679-687.	7.8	34
44	Integration of solar heating systems for low-temperature heat demand in food processing industry – A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 147, 111192.	16.4	34
45	Combined design and load shifting for distributed energy system. <i>Clean Technologies and Environmental Policy</i> , 2013, 15, 433-444.	4.1	32
46	An integrated carbon footprint accounting and sustainability index for palm oil mills. <i>Journal of Cleaner Production</i> , 2019, 225, 496-509.	9.3	31
47	ZIF-8 based polysulfone hollow fiber membranes for natural gas purification. <i>Polymer Testing</i> , 2020, 84, 106415.	4.8	30
48	Integrated biomass and solar town: Incorporation of load shifting and energy storage. <i>Energy</i> , 2014, 75, 31-39.	8.8	29
49	Optimal Biomethane Injection into Natural Gas Grid – Biogas from Palm Oil Mill Effluent (POME) in Malaysia. <i>Energy Procedia</i> , 2017, 105, 562-569.	1.8	29
50	Energy Efficiency Award system in Malaysia for energy sustainability. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 2279-2289.	16.4	27
51	Review of microalgae growth in palm oil mill effluent for lipid production. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 2347-2361.	4.1	27
52	A sustainability performance assessment framework for palm oil mills. <i>Journal of Cleaner Production</i> , 2018, 174, 1679-1693.	9.3	27
53	Towards an integrated, resource-efficient rice mill complex. <i>Resources, Conservation and Recycling</i> , 2013, 75, 41-51.	10.8	26
54	An Integrated Carbon Accounting and Mitigation Framework for Greening the Industry. <i>Energy Procedia</i> , 2015, 75, 2993-2998.	1.8	26

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55	Towards circular economy: Economic feasibility of waste to biomethane injection through proposed feed-in tariff. <i>Journal of Cleaner Production</i> , 2020, 270, 122160.	9.3	26
56	Design of decentralized biopower generation and distribution system for developing countries. <i>Journal of Cleaner Production</i> , 2015, 86, 209-220.	9.3	25
57	Economic and spatial planning for sustainable oil palm biomass resources to mitigate transboundary haze issue. <i>Energy</i> , 2018, 146, 169-178.	8.8	25
58	Optimization of energy usage for fleet-wide power generating system under carbon mitigation options. <i>AIChE Journal</i> , 2009, 55, 3168-3190.	3.6	24
59	Flash point prediction of tailor-made green diesel blends containing B5 palm oil biodiesel and alcohol. <i>Fuel</i> , 2016, 175, 287-293.	6.4	24
60	Optimization of photovoltaic-based microgrid with hybrid energy storage: A P-graph approach. <i>Energy</i> , 2021, 233, 121088.	8.8	24
61	A multi-period model for optimal planning of an integrated, resource-efficient rice mill. <i>Computers and Chemical Engineering</i> , 2013, 52, 77-89.	3.8	23
62	Reducing diesel exhaust emissions by optimisation of alcohol oxygenates blend with diesel/biodiesel. <i>Journal of Cleaner Production</i> , 2021, 316, 128090.	9.3	23
63	Development and optimization of an integrated energy network with centralized and decentralized energy systems using mathematical modelling approach. <i>Energy</i> , 2019, 183, 617-629.	8.8	22
64	A graphical inherent safety assessment technique for preliminary design stage. <i>Chemical Engineering Research and Design</i> , 2019, 130, 275-287.	5.6	22
65	Development of hazard prevention strategies for inherent safety assessment during early stage of process design. <i>Chemical Engineering Research and Design</i> , 2019, 121, 271-280.	5.6	22
66	Modeling and planning of the electricity energy system with a high share of renewable supply for Portugal. <i>Energy</i> , 2020, 211, 118713.	8.8	22
67	Optimisation of oil palm biomass and palm oil mill effluent (POME) utilisation pathway for palm oil mill cluster with consideration of BioCNG distribution network. <i>Energy</i> , 2017, 121, 865-883.	8.8	21
68	Potential commercialisation of biocoke production in Malaysia – A best evidence review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 90, 636-649.	16.4	21
69	Anaerobic Digestion Process of Food Waste for Biogas Production: A Simulation Approach. <i>Chemical Engineering and Technology</i> , 2019, 42, 1834-1839.	1.5	21
70	Recovery of nutrients from fish sludge in an aquaponic system using biological aerated filters with ceramsite plus lignocellulosic material media. <i>Journal of Cleaner Production</i> , 2020, 258, 120886.	9.3	21
71	Optimal design of distillation column using three dimensional exergy analysis curves. <i>Energy</i> , 2010, 35, 5309-5319.	8.8	20
72	Sizing of Hybrid Power System with varying current type using numerical probabilistic approach. <i>Applied Energy</i> , 2016, 184, 1364-1373.	10.1	20

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73	Greenhouse Gas Emission of Organic Waste Composting: A Case Study of Universiti Teknologi Malaysia Green Campus Flagship Project. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2015, 74, .	0.4	18
74	Holistic Approach for Design of Minimum Water Networks Using the Mixed Integer Linear Programming (MILP) Technique. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 5742-5751.	3.7	17
75	Optimal landfill gas utilization for renewable energy production. <i>Environmental Progress and Sustainable Energy</i> , 2015, 34, 289-296.	2.3	17
76	Economic and environmental evaluation of landfill gas utilisation: A multi-period optimisation approach for low carbon regions. <i>International Biodeterioration and Biodegradation</i> , 2015, 102, 191-201.	3.9	17
77	Design of energy efficient reactive solvents for post combustion CO ₂ capture using computer aided approach. <i>Journal of Cleaner Production</i> , 2018, 176, 704-715.	9.3	17
78	Spatial-economic optimisation of biomethane injection into natural gas grid: The case at southern Malaysia. <i>Journal of Environmental Management</i> , 2019, 241, 603-611.	7.8	17
79	In-situ removal of residual antibiotics (enrofloxacin) in recirculating aquaculture system: Effect of ultraviolet photolysis plus biodegradation using immobilized microbial granules. <i>Journal of Cleaner Production</i> , 2022, 333, 130190.	9.3	17
80	Method for identifying errors in chemical process development and design base on accidents knowledge. <i>Chemical Engineering Research and Design</i> , 2015, 97, 49-60.	5.6	16
81	Eco innovation strategies for promoting cleaner cement manufacturing. <i>Journal of Cleaner Production</i> , 2016, 136, 133-149.	9.3	16
82	Effects of fluidization number and air factor on the combustion of mixed solid waste in a fluidized bed. <i>Applied Thermal Engineering</i> , 2011, 31, 1861-1868.	6.0	15
83	Optimal Multi-Site Resource Allocation and Utility Planning for Integrated Rice Mill Complex. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 3816-3831.	3.7	15
84	Green Industry for Low Carbon Economy: Palm Oil Green Assessment Tool. <i>Energy Procedia</i> , 2014, 61, 2759-2762.	1.8	15
85	Optimisation and targeting of supply-demand of biogas system through gas system cascade analysis (GASCA) framework. <i>Journal of Cleaner Production</i> , 2017, 146, 101-115.	9.3	15
86	Optimal Design and Sizing of Integrated Centralized and Decentralized Energy Systems. <i>Energy Procedia</i> , 2017, 105, 3733-3740.	1.8	15
87	Carbon emission reduction targeting through process integration and fuel switching with mathematical modeling. <i>Applied Energy</i> , 2012, 92, 686-693.	10.1	14
88	Optimal operation of a distributed energy generation system for a sustainable palm oil-based eco-community. <i>Clean Technologies and Environmental Policy</i> , 2015, 17, 1597-1617.	4.1	14
89	Inherent Safety and Economic Graphical Rating (InSafE) method for inherent safety and economic assessment. <i>Chemical Engineering Research and Design</i> , 2021, 149, 602-609.	5.6	13
90	Waste Management Pinch Analysis (WAMPA) for Carbon Emission Reduction. <i>Energy Procedia</i> , 2015, 75, 2448-2453.	1.8	12

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91	A holistic approach for design of Cost-Optimal Water Networks. Journal of Cleaner Production, 2017, 146, 194-207.	9.3	12
92	Integrating palm oil biomass waste utilization in coal-fired power plants for meeting near-term emission targets. Journal of Environmental Management, 2021, 296, 113118.	7.8	12
93	A review on the potential of polyhydroxyalkanoates production from oil-based substrates. Journal of Environmental Management, 2021, 298, 113461.	7.8	12
94	Synthesis of a sustainable integrated rice mill complex. Journal of Cleaner Production, 2014, 71, 118-127.	9.3	11
95	Inherent Safety Assessment of Biodiesel Production: Flammability Parameter. Procedia Engineering, 2016, 148, 1177-1183.	1.2	11
96	Optimal Design of a Rice Mill Utility System with Rice Husk Logistic Network. Industrial & Engineering Chemistry Research, 2012, 51, 362-373.	3.7	10
97	Mobilising the potential towards low-carbon emissions society in Asia. Clean Technologies and Environmental Policy, 2016, 18, 2337-2345.	4.1	10
98	Techno-economic assessment of different cooling systems for office buildings in tropical large city considering on-site biogas utilization. Journal of Cleaner Production, 2018, 184, 774-787.	9.3	10
99	Spatial planning and optimisation for virtual distribution of BioCNG derived from palm oil mill effluent to meet industrial energy demand. Renewable Energy, 2019, 141, 526-540.	8.9	10
100	Deploying bioenergy for decarbonizing Malaysian energy sectors and alleviating renewable energy poverty. Energy, 2021, 232, 120967.	8.8	10
101	Integrated linear programming and analytical hierarchy process method for diesel/biodiesel/butanol in reducing diesel emissions. Journal of Cleaner Production, 2022, 337, 130297.	9.3	9
102	The trends and projections of greenhouse gas emission by the livestock sector in Malaysia. Clean Technologies and Environmental Policy, 2022, 24, 363-377.	4.1	8
103	Optimal design of water networks involving multiple contaminants for global water operations. Asia-Pacific Journal of Chemical Engineering, 2011, 6, 771-777.	1.5	7
104	Tailor-Made Green Diesel Blends Design using a Decomposition-Based Computer-Aided Approach. Computer Aided Chemical Engineering, 2015, , 1085-1090.	0.5	7
105	Graphical Technique for Root-Cause Analysis in Inherent Safety Assessment. Advanced Materials Research, 0, 1113, 723-732.	0.3	7
106	Spatial optimization of photovoltaic-based hydrogen-electricity supply chain through an integrated geographical information system and mathematical modeling approach. Clean Technologies and Environmental Policy, 2022, 24, 393-412.	4.1	7
107	Reading behaviors of students in Kolej Datin Seri Endon (KDSE). International Journal of Educational Management, 2012, 26, 381-390.	1.5	6
108	Development of quantitative SHE index for waste to energy technology selection. Energy, 2020, 191, 116534.	8.8	6

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109	Solvent design and inherent safety assessment of solvent alternatives for palm oil recovery. Journal of Loss Prevention in the Process Industries, 2020, 65, 104120.	3.3	6
110	Grid-connected distributed energy generation system planning and scheduling. Desalination and Water Treatment, 2014, 52, 1202-1213.	1.0	5
111	Spatio-temporal assessment of the impact of intensive palm oil-based bioenergy deployment on cross-sectoral energy decarbonization. Applied Energy, 2021, 285, 116460.	10.1	5
112	Low-carbon Asia: technical contributions to an ambitious goal for sustainability. Clean Technologies and Environmental Policy, 2016, 18, 2335-2336.	4.1	4
113	Extended Electric System Cascade Analysis (ESCA) for a Carbon Constraint Energy Generation System. Energy Procedia, 2017, 105, 3928-3935.	1.8	4
114	Extended Electric System Cascade Analysis (ESCA) for optimal power system targeting considering generation flexibility and heat rate factor. Energy Procedia, 2019, 158, 4190-4197.	1.8	4
115	Effects of fossil fuel price fluctuations on electricity planning comprising renewable energy. Asia-Pacific Journal of Chemical Engineering, 2011, 6, 552-562.	1.5	3
116	Integrated Biomass Power Plant and Storage for Peak Load Management. Computer Aided Chemical Engineering, 2012, 31, 1000-1004.	0.5	3
117	A short note: Effects of fluidisation number and total air factor on the Combustion of Municipal solid waste of high moisture content in a fluidised bed. Applied Thermal Engineering, 2012, 36, 403-405.	6.0	3
118	Mitigation the Transboundary Haze in ASEAN Country: Biomass to Energy GHG Emission Assessment. Energy Procedia, 2017, 105, 1178-1183.	1.8	3
119	Integrated spatial and pinch analysis of optimal industrial energy supply mix with consideration of BioCNG derived from palm oil mill effluent. Energy, 2020, 209, 118349.	8.8	3
120	Renewable energy and carbon reduction potentials of municipal solid waste in MALAYSIA. , 2011, , .		2
121	Fugitive Emission Reduction Using Mixed Integer Linear Programming. Energy Procedia, 2012, 14, 1870-1876.	1.8	2
122	An Investigation into the Need of Process Safety Management (PSM) in the Palm Oil Industry. Applied Mechanics and Materials, 0, 625, 458-461.	0.2	2
123	Major Hazards of Process Equipment Failures in the Chemical Process Industry. Applied Mechanics and Materials, 0, 735, 75-79.	0.2	2
124	Sustainable multi-period electricity planning for Iskandar Malaysia. Clean Technologies and Environmental Policy, 2016, 18, 2467-2478.	4.1	2
125	A new technique for multiple resources targeting and optimization: Application to water-energy nexus. Sustainable Energy Technologies and Assessments, 2021, 46, 101213.	2.7	2
126	Pathways and challenges of solar thermal utilisation in the industry: ASEAN and Malaysia scenarios. Sustainable Energy Technologies and Assessments, 2022, 52, 102046.	2.7	2

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127	Mechanical and biodegradation properties of fresh and rotten jicama starches based bioplastics. Environmental Quality Management, 2022, 32, 355-364.	1.9	2
128	A Linear Programming Approach for Landfill Gas Utilization for Renewable Energy Production. Applied Mechanics and Materials, 0, 699, 619-624.	0.2	1
129	SMART: An Integrated Planning and Decision Support Tool for Solid Waste Management. Computer Aided Chemical Engineering, 2014, 33, 271-276.	0.5	1
130	Computational and Experimental Investigations on Tailor-made Biofuel Blend Properties. Energy Procedia, 2015, 75, 23-29.	1.8	1
131	An optimal fleet-wide CO2 emission strategy for Ontario. , 2005, , 1427-1432.		1
132	An Integrated Approach for Carbon Mitigation in the Electric Power Generation Sector. , 2009, , 277-312.		0
133	A cost effective minimum water network model for intra and interplant system. , 2011, , .		0
134	Optimal Design of Biomass-solar Town for a Palm Oil Mill for Iskandar Malaysia. Energy Procedia, 2014, 61, 2763-2766.	1.8	0
135	Optimal Low Carbon Cement Plant via Co-Processing Measure. Advanced Materials Research, 0, 1113, 812-817.	0.3	0
136	Solvent Design for Post Combustion Chemical Absorption Process. Computer Aided Chemical Engineering, 2016, 38, 1683-1688.	0.5	0
137	Renewable energy transformation in Malaysia through bioenergy production: Policy insights from spatially-explicit modeling. , 2022, , 535-552.		0
138	Maximising the valorisation of organic waste locally available via carbon-to-nitrogen ratio Supply Composite Curve shifting. Journal of Cleaner Production, 2022, , 132389.	9.3	0