

Haslenda Hashim

List of Publications by Year in descending order

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138
papers

6,248
citations

94433

37
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74163

75
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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. Energy Conversion and Management, 2017, 150, 277-294.	9.2	520
2	A review on utilisation of biomass from rice industry as a source of renewable energy. Renewable and Sustainable Energy Reviews, 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. Energy Conversion and Management, 2015, 102, 111-120.	9.2	267
4	Potential of biogas production from farm animal waste in Malaysia. Renewable and Sustainable Energy Reviews, 2016, 60, 714-723.	16.4	258
5	Review of pre-combustion capture and ionic liquid in carbon capture and storage. Applied Energy, 2016, 183, 1633-1663.	10.1	245
6	A holistic low carbon city indicator framework for sustainable development. Applied Energy, 2017, 185, 1919-1930.	10.1	230
7	Economic and environmental benefits of landfill gas from municipal solid waste in Malaysia. Renewable and Sustainable Energy Reviews, 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. Renewable and Sustainable Energy Reviews, 2017, 67, 531-573.	16.4	212
9	Renewable energy policies and initiatives for a sustainable energy future in Malaysia. Renewable and Sustainable Energy Reviews, 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. Journal of Cleaner Production, 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. Applied Energy, 2014, 136, 797-804.	10.1	140
12	Optimal process network for municipal solid waste management in Iskandar Malaysia. Journal of Cleaner Production, 2014, 71, 48-58.	9.3	140
13	Low carbon measures for cement plant – a review. Journal of Cleaner Production, 2015, 103, 260-274.	9.3	127
14	The challenges and prospects of palm oil based biodiesel in Malaysia. Energy, 2015, 81, 255-261.	8.8	107
15	Review on the renewable energy and solid waste management policies towards biogas development in Malaysia. Renewable and Sustainable Energy Reviews, 2017, 70, 988-998.	16.4	106
16	Optimal planning of renewable energy-integrated electricity generation schemes with CO2 reduction target. Renewable Energy, 2010, 35, 2562-2570.	8.9	104
17	Design of distributed energy system through Electric System Cascade Analysis (ESCA). Applied Energy, 2012, 99, 309-315.	10.1	95
18	Optimization Model for Energy Planning with CO2Emission Considerations. Industrial & Engineering Chemistry Research, 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. Renewable and Sustainable Energy Reviews, 2011, 15, 574-583.	16.4	87
20	A source of renewable energy in Malaysia, why biodiesel?. Renewable and Sustainable Energy Reviews, 2014, 35, 244-257.	16.4	82
21	Optimal scheduling of energy storage for renewable energy distributed energy generation system. Renewable and Sustainable Energy Reviews, 2016, 58, 1100-1107.	16.4	81
22	A novel design for green and economical cement manufacturing. Journal of Cleaner Production, 2012, 22, 60-66.	9.3	76
23	Opportunities and challenges: Landfill gas to biomethane injection into natural gas distribution grid through pipeline. Journal of Cleaner Production, 2018, 175, 409-419.	9.3	74
24	Municipal Solid Waste Management and Potential Revenue from Recycling in Malaysia. Modern Applied Science, 2014, 8, .	0.6	62
25	Economical and Environmental Impact of Waste-to-Energy (WTE) Alternatives for Waste Incineration, Landfill and Anaerobic Digestion. Energy Procedia, 2014, 61, 704-708.	1.8	62
26	A Review of Flash Point Prediction Models for Flammable Liquid Mixtures. Industrial & Engineering Chemistry Research, 2014, 53, 12553-12565.	3.7	61
27	Projection of CO ₂ emissions in Malaysia. Environmental Progress and Sustainable Energy, 2011, 30, 658-665.	2.3	59
28	Numerical Descriptive Inherent Safety Technique (NuDIST) for inherent safety assessment in petrochemical industry. Chemical Engineering Research and Design, 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. Applied Energy, 2017, 185, 1481-1489.	10.1	55
30	Simulation based programming for optimization of large-scale rainwater harvesting system: Malaysia case study. Resources, Conservation and Recycling, 2013, 80, 1-9.	10.8	54
31	Optimization of a standalone photovoltaic-based microgrid with electrical and hydrogen loads. Energy, 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. Arabian Journal of Chemistry, 2018, 11, 1072-1083.	4.9	50
33	Electric System Cascade Analysis (ESCA): Solar PV system. International Journal of Electrical Power and Energy Systems, 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. Materials Characterization, 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. Journal of Cleaner Production, 2021, 316, 128366.	9.3	43
36	SAHPPA: a novel power pinch analysis approach for the design of off-grid hybrid energy systems. Clean Technologies and Environmental Policy, 2014, 16, 957-970.	4.1	42

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37	A cleaner and greener fuel: Biofuel blend formulation and emission assessment. Journal of Cleaner Production, 2017, 146, 208-217.	9.3	38
38	Spatial optimisation of oil palm biomass co-firing for emissions reduction in coal-fired power plant. Journal of Cleaner Production, 2018, 172, 3428-3447.	9.3	37
39	Targeting and scheduling of standalone renewable energy system with liquid organic hydrogen carrier as energy storage. Energy, 2021, 218, 119475.	8.8	37
40	A graphical method for assessing inherent safety during research and development phase of process design. Journal of Loss Prevention in the Process Industries, 2016, 42, 59-69.	3.3	36
41	Design of green diesel from biofuels using computer aided technique. Computers and Chemical Engineering, 2012, 41, 88-92.	3.8	34
42	Modelling and optimization of CO2 abatement strategies. Journal of Cleaner Production, 2014, 71, 40-47.	9.3	34
43	Towards low carbon society in Iskandar Malaysia: Implementation and feasibility of community organic waste composting. Journal of Environmental Management, 2017, 203, 679-687.	7.8	34
44	Integration of solar heating systems for low-temperature heat demand in food processing industry – A review. Renewable and Sustainable Energy Reviews, 2021, 147, 111192.	16.4	34
45	Combined design and load shifting for distributed energy system. Clean Technologies and Environmental Policy, 2013, 15, 433-444.	4.1	32
46	An integrated carbon footprint accounting and sustainability index for palm oil mills. Journal of Cleaner Production, 2019, 225, 496-509.	9.3	31
47	ZIF-8 based polysulfone hollow fiber membranes for natural gas purification. Polymer Testing, 2020, 84, 106415.	4.8	30
48	Integrated biomass and solar town: Incorporation of load shifting and energy storage. Energy, 2014, 75, 31-39.	8.8	29
49	Optimal Biomethane Injection into Natural Gas Grid – Biogas from Palm Oil Mill Effluent (POME) in Malaysia. Energy Procedia, 2017, 105, 562-569.	1.8	29
50	Energy Efficiency Award system in Malaysia for energy sustainability. Renewable and Sustainable Energy Reviews, 2010, 14, 2279-2289.	16.4	27
51	Review of microalgae growth in palm oil mill effluent for lipid production. Clean Technologies and Environmental Policy, 2016, 18, 2347-2361.	4.1	27
52	A sustainability performance assessment framework for palm oil mills. Journal of Cleaner Production, 2018, 174, 1679-1693.	9.3	27
53	Towards an integrated, resource-efficient rice mill complex. Resources, Conservation and Recycling, 2013, 75, 41-51.	10.8	26
54	An Integrated Carbon Accounting and Mitigation Framework for Greening the Industry. Energy Procedia, 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. Jurnal Teknologi (Sciences and Engineering), 2015, 74, .	0.4	18
74	Holistic Approach for Design of Minimum Water Networks Using the Mixed Integer Linear Programming (MILP) Technique. Industrial & Engineering Chemistry Research, 2010, 49, 5742-5751.	3.7	17
75	Optimal landfill gas utilization for renewable energy production. Environmental Progress and Sustainable Energy, 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. International Biodeterioration and Biodegradation, 2015, 102, 191-201.	3.9	17
77	Design of energy efficient reactive solvents for post combustion CO ₂ capture using computer aided approach. Journal of Cleaner Production, 2018, 176, 704-715.	9.3	17
78	Spatial-economic optimisation of biomethane injection into natural gas grid: The case at southern Malaysia. Journal of Environmental Management, 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. Journal of Cleaner Production, 2022, 333, 130190.	9.3	17
80	Method for identifying errors in chemical process development and design base on accidents knowledge. Chemical Engineering Research and Design, 2015, 97, 49-60.	5.6	16
81	Eco innovation strategies for promoting cleaner cement manufacturing. Journal of Cleaner Production, 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. Applied Thermal Engineering, 2011, 31, 1861-1868.	6.0	15
83	Optimal Multi-Site Resource Allocation and Utility Planning for Integrated Rice Mill Complex. Industrial & Engineering Chemistry Research, 2013, 52, 3816-3831.	3.7	15
84	Green Industry for Low Carbon Economy: Palm Oil Green Assessment Tool. Energy Procedia, 2014, 61, 2759-2762.	1.8	15
85	Optimisation and targeting of supply-demand of biogas system through gas system cascade analysis (GASCA) framework. Journal of Cleaner Production, 2017, 146, 101-115.	9.3	15
86	Optimal Design and Sizing of Integrated Centralized and Decentralized Energy Systems. Energy Procedia, 2017, 105, 3733-3740.	1.8	15
87	Carbon emission reduction targeting through process integration and fuel switching with mathematical modeling. Applied Energy, 2012, 92, 686-693.	10.1	14
88	Optimal operation of a distributed energy generation system for a sustainable palm oil-based eco-community. Clean Technologies and Environmental Policy, 2015, 17, 1597-1617.	4.1	14
89	Inherent Safety and Economic Graphical Rating (InSafeE) method for inherent safety and economic assessment. Chemical Engineering Research and Design, 2021, 149, 602-609.	5.6	13
90	Waste Management Pinch Analysis (WAMPA) for Carbon Emission Reduction. Energy Procedia, 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 Programing 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