

Isam janajreh

List of Publications by Year in descending order

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123
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2766
citing authors

#	ARTICLE	IF	CITATIONS
1	New performance correlations of municipal solid waste gasification for sustainable syngas fuel production. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 4271-4289.	2.9	6
2	CFD study on the validity of using PCM in a controlled cooling ceiling integrated in a ventilated room. <i>Developments in the Built Environment</i> , 2022, 9, 100066.	2.0	6
3	Utilizing Buckingham Pi theorem and multiple regression analysis in scaling up direct contact membrane distillation processes. <i>Desalination</i> , 2022, 528, 115606.	4.0	8
4	Thermogravimetric assessment of the thermal degradation during combustion of crude and pure glycerol. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 4403-4417.	2.9	8
5	Sonicated direct contact membrane distillation: Influence of sonication parameters. <i>Desalination</i> , 2022, 533, 115779.	4.0	0
6	Kinetic Study on Thermal Degradation of Crosslinked Polyethylene Cable Waste. <i>Journal of Polymer Research</i> , 2022, 29, .	1.2	2
7	Flow-induced vibration on two tandem cylinders of different diameters and spacing ratios. <i>Ocean Engineering</i> , 2022, 258, 111747.	1.9	18
8	Numerical and experimental investigation of thermoelectric materials in direct contact membrane distillation. <i>Energy Conversion and Management</i> , 2022, 267, 115880.	4.4	3
9	Technical feasibility of reforming anaerobic digestion and landfill biogas streams into bio-hydrogen. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 275-288.	2.9	3
10	A review of recent developments and future prospects in gasification systems and their modeling. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 138, 110505.	8.2	58
11	Recycled tire granular for playground in hot regions: technical assessment. <i>Journal of Material Cycles and Waste Management</i> , 2021, 23, 107-120.	1.6	5
12	Gasification of spent pot-lining from the aluminum industry. <i>SN Applied Sciences</i> , 2021, 3, 1.	1.5	4
13	Dynamic Behavior of a Streamwise Oscillating Heated Cylinder. , 2021, , .		2
14	Flow Dynamics Over Two Cylinders in Tandem Subjected to Different Heating Cases. , 2021, , .		1
15	Freezing desalination: Heat and mass validated modeling and experimental parametric analyses. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101189.	2.8	14
16	Flow dynamics over a heated cylinder subjected to high temperature ratios. <i>Case Studies in Thermal Engineering</i> , 2021, 27, 101357.	2.8	6
17	Application of directional freezing for seawater desalination: Parametric analysis using experimental and computational methods. <i>Desalination</i> , 2021, 520, 115339.	4.0	18
18	Flow-Induced Vibrations of Single and Multiple Heated Circular Cylinders: A Review. <i>Energies</i> , 2021, 14, 8496.	1.6	31

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19	Anaerobic co-digestion of petroleum hydrocarbon waste and wastewater treatment sludge. International Journal of Hydrogen Energy, 2020, 45, 11538-11549.	3.8	16
20	Model-fitting approach to kinetic analysis of non-isothermal pyrolysis of pure and crude glycerol. Renewable Energy, 2020, 145, 1693-1708.	4.3	23
21	Sustainability Performance Index for Ranking Energy Storage Technologies using Multi-Criteria Decision-Making Model and Hybrid Computational Method. Journal of Energy Storage, 2020, 32, 101820.	3.9	25
22	Modeling of plasma and entrained flow co-gasification of MSW and petroleum sludge. Energy, 2020, 196, 117001.	4.5	59
23	Numerical simulation and evaluation of spacer-filled direct contact membrane distillation module. Applied Water Science, 2020, 10, .	2.8	15
24	Incorporation of nanosized LTL zeolites in dual-layered PVDF-HFP/cellulose membrane for enhanced membrane distillation performance. Journal of Membrane Science, 2020, 611, 118298.	4.1	32
25	Gasification feasibility of polyethylene, polypropylene, polystyrene waste and their mixture: Experimental studies and modeling. Sustainable Energy Technologies and Assessments, 2020, 39, 100684.	1.7	24
26	Gasification of Municipal Solid Waste: Thermodynamic Equilibrium Analysis Using Gibbs Energy Minimization Method and CFD Simulation of a Downdraft Gasifier. Journal of Solid Waste Technology and Management, 2020, 46, 274-288.	0.2	2
27	Design and performance evaluation of a portable hybrid desalination unit using direct contact membrane distillation in dual configuration. Energy Procedia, 2019, 158, 904-910.	1.8	5
28	Flow simulation and assessment of a salinity gradient solar pond development. Energy Procedia, 2019, 158, 911-917.	1.8	7
29	Numerical analysis of VAWT wind turbines: Joukowski vs classical NACA rotorâ€™s blades. Energy Procedia, 2019, 158, 1194-1201.	1.8	11
30	Transesterification of waste cooking oil: Quality assessment via thermogravimetric analysis. Energy Procedia, 2019, 158, 2070-2076.	1.8	18
31	Refinery processed water treatment <i>via</i> the low energy Direct Contact Membrane Distillation (DCMD). Oil and Gas Science and Technology, 2019, 74, 3.	1.4	8
32	Combustion and emissions analysis of Spent Pot lining (SPL) as alternative fuel in cement industry. Science of the Total Environment, 2019, 684, 519-526.	3.9	56
33	Chemical Kinetic and High Fidelity Modeling of Transesterification. , 2019, , .		1
34	Low Energy Desalination via Direct Contact Membrane Distillation: Looking Into the Concentration Polarization. , 2019, , .		0
35	Thermogravimetric study of the combustion characteristics of biodiesel and petroleum diesel. Journal of Thermal Analysis and Calorimetry, 2019, 136, 925-935.	2.0	19
36	Synthesis of polybenzimidazole (PBI) forward osmosis (FO) membrane and computational fluid dynamics (CFD) modeling of concentration gradient across membrane surface. Desalination, 2019, 452, 17-28.	4.0	25

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37	Development of a dual-layered PVDF-HFP/cellulose membrane with dual wettability for desalination of oily wastewater. <i>Journal of Membrane Science</i> , 2019, 570-571, 418-426.	4.1	37
38	Novel technique for fabrication of electrospun membranes with high hydrophobicity retention. <i>Desalination</i> , 2018, 436, 98-106.	4.0	13
39	Acousto-chemical analysis in multi-transducer sonochemical reactors for biodiesel production. <i>Ultrasonics Sonochemistry</i> , 2018, 40, 184-193.	3.8	23
40	Thermal efficiency enhancement of the direct contact membrane distillation: Conductive layer integration and geometrical undulation. <i>Applied Energy</i> , 2018, 227, 7-17.	5.1	18
41	Gasification Comparison between Plasma and Entrained Flow: Analysis of the Power Plant. , 2018, , .		0
42	Two-stage Anaerobic Upflow Biofilm Reactor for Simultaneous Hydrogen and Methane Production from Food Waste. , 2018, , .		1
43	Damage Identification of Wind Turbineâ€™s Blades using Power Spectral Density and Kriging Analysis. , 2018, , .		0
44	Modeling of Thermochemical Conversion of Glycerol: Pyrolysis and H ₂ O and CO ₂ Gasification. <i>Waste and Biomass Valorization</i> , 2018, 9, 2361-2371.	1.8	4
45	Towards Solar Pond Design and Development for Masdar City Environment. <i>CIM Journal</i> , 2018, 16, 59-64.	0.3	3
46	Intensification of transesterification via sonication numerical simulation and sensitivity study. <i>Applied Energy</i> , 2017, 185, 2151-2159.	5.1	15
47	Assessment of direct contact membrane distillation under different configurations, velocities and membrane properties. <i>Applied Energy</i> , 2017, 185, 2058-2073.	5.1	52
48	Investigation of Effect of Cambered Blades on Darrieus VAWTs. <i>Energy Procedia</i> , 2017, 105, 537-543.	1.8	17
49	Numerical investigation of air gap membrane distillation (AGMD): Seeking optimal performance. <i>Desalination</i> , 2017, 424, 122-130.	4.0	46
50	Optimizing Acoustic Energy for Better Transesterification: A Novel Sono-Chemical Reactor Design. <i>Energy Procedia</i> , 2017, 105, 544-550.	1.8	7
51	Numerical Simulation and Experimental Testing of Novel Sonochemical Reactor for Transesterification. <i>Waste and Biomass Valorization</i> , 2017, 8, 1733-1747.	1.8	8
52	Plasma Gasification of Two Waste Streams: Municipal Solid Waste and Hazardous Waste from the Oil and Gas Industry. <i>Energy Procedia</i> , 2017, 105, 4159-4166.	1.8	42
53	Evaluation of Thermal Efficiency of Membrane Distillation under Conductive Layer Integration. <i>Energy Procedia</i> , 2017, 105, 4935-4942.	1.8	2
54	Plasma gasification of municipal solid waste with variable content of plastic solid waste for enhanced energy recovery. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 19446-19457.	3.8	100

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55	A comprehensive analysis of solidity for cambered darrius VAWTs. International Journal of Hydrogen Energy, 2017, 42, 19420-19431.	3.8	33
56	Gasification behavior of coal and woody biomass: Validation and parametrical study. Applied Energy, 2017, 185, 1007-1018.	5.1	63
57	Low Energy Membrane Distillation: A Numerical Study on The Role of Conductive Spacers. Energy Procedia, 2017, 142, 4056-4063.	1.8	8
58	Analysis of Pressure Wave Development in a Thermo-acoustic Engine and Sensitivity Study. Energy Procedia, 2017, 142, 1488-1495.	1.8	3
59	Thermogravimetric Kinetics and High Fidelity Analysis of Crude Glycerol. Energy Procedia, 2017, 142, 1699-1705.	1.8	13
60	A comparison of energy recovery from MSW through plasma gasification and entrained flow gasification. Energy Procedia, 2017, 142, 3480-3485.	1.8	39
61	Glycerol Conversion: Chemical Kinetic Analysis and High Fidelity Solar Gasification. , 2017, , .		0
62	Low Energy Desalination via DCMD: The Role of Superhydrophobicity and Optimal Flow Conditions. , 2017, , .		0
63	A facile approach to fabricate superhydrophobic membranes with low contact angle hysteresis. Journal of Membrane Science, 2017, 539, 144-151.	4.1	31
64	Simulation of the Co-gasification of Kentucky Coal And Biomass in an Entrained Flow Gasifier. Journal of Solid Waste Technology and Management, 2017, 43, 250-260.	0.2	3
65	Renewable Energy Sources for Isolated Self-sufficient Microgrids: Comparison of Solar and Wind Energy for UAE. Energy Procedia, 2016, 103, 413-418.	1.8	14
66	Design of Solar-Biomass Hybrid Microgrid System in Sharjah. Energy Procedia, 2016, 103, 357-362.	1.8	55
67	Multiple Source Sustainable Hybrid Micro-grid for Urban Communities: A Case Study in UAE. Energy Procedia, 2016, 103, 419-424.	1.8	4
68	Theoretical and experimental study of direct contact membrane distillation. Desalination and Water Treatment, 2016, 57, 15660-15675.	1.0	8
69	Economic feasibility of biodiesel production from waste cooking oil in the UAE. Sustainable Cities and Society, 2016, 26, 217-226.	5.1	36
70	Effect of multiple piezo-transducers on biodiesel yield in a sonochemical reactor. , 2016, , .		0
71	Plasma gasification of municipal solid waste with variable content of plastic solid waste for enhanced energy recovery. , 2016, , .		7
72	Numerical Simulation of Multiple Step Transesterification of Waste Oil in Tubular Reactor. Journal of Infrastructure Systems, 2016, 22, .	1.0	6

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73	Numerical investigation of solidity for cambered Darrieus VAWTs: Analysis of chord length. , 2016, , .		3
74	Exergy efficiency analysis of a flat plate solar collector using graphene based nanofluid. IOP Conference Series: Materials Science and Engineering, 2015, 92, 012015.	0.3	14
75	Low Energy Direct Contact Membrane Desalination: Conjugated Heat and High Fidelity Flow Simulation. Energy Procedia, 2015, 75, 1722-1727.	1.8	7
76	Assisted Sonication vs Conventional Transesterification Numerical Simulation and Sensitivity Study. IOP Conference Series: Materials Science and Engineering, 2015, 92, 012016.	0.3	0
77	Numerical simulation of waste tyres gasification. Waste Management and Research, 2015, 33, 460-468.	2.2	18
78	Numerical Simulation of Turbine Blade Cooling via Jet Impingement. Energy Procedia, 2015, 75, 3220-3229.	1.8	22
79	Mechanical recycling of PVC plastic waste streams from cable industry: A case study. Sustainable Cities and Society, 2015, 18, 13-20.	5.1	77
80	Implementation and economical study of HAWT under different wind scenarios. Sustainable Cities and Society, 2015, 15, 153-160.	5.1	12
81	Transesterification of Waste Cooking Oil: Kinetic Study and Reactive Flow Analysis. Energy Procedia, 2015, 75, 547-553.	1.8	16
82	Numerical Modeling of the Entrained Flow Gasification (EFG) of Kentucky Coal and Biomass. Energy Procedia, 2015, 75, 232-239.	1.8	5
83	Modeling of the entrained flow gasification: Kinetics-based ASPEN Plus model. Renewable Energy, 2015, 82, 77-84.	4.3	54
84	Co-Firing of Enteromorpha Prolifera Algae and RTC Coal in a Down Draft Gasifier: Material Characterization and Flow Simulation. Journal of Solid Waste Technology and Management, 2015, 41, 68-83.	0.2	2
85	Alternative treatment of petroleum waste via thermochemical conversion. , 2014, , .		3
86	Numerical simulation of membrane desalination in a conjugated heat transfer configuration: Role of spacers. , 2014, , .		2
87	Numerical Investigation of Four Commonly Used Airfoils for Vertical Axis Wind Turbine. Springer Proceedings in Energy, 2014, , 443-454.	0.2	6
88	Detailed Kinetics-Based Entrained Flow Gasification Modeling of Utah Bituminous Coal and Waste Construction Wood Using Aspen Plus. Springer Proceedings in Energy, 2014, , 607-622.	0.2	1
89	Vertical Axis Wind Turbine performance prediction for low wind speed environment. , 2014, , .		9
90	Sustainability index approach as a selection criteria for energy storage system of an intermittent renewable energy source. Applied Energy, 2014, 136, 909-920.	5.1	69

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91	High Density Polyethylene Pyrolysis: Review and Progress. Springer Proceedings in Energy, 2014, , 585-595.	0.2	0
92	A non-linear control of power wind turbine based on Doubly Fed Induction Generator. , 2013, , .		0
93	Low Energy Direct Contact Membrane Distillation: Towards optimal flow configuration. , 2013, , .		3
94	Numerical simulation of gasification: Effect of injection velocity on the feedstock conversion and syngas composition. , 2013, , .		0
95	Wind energy assessment: Masdar City case study. Renewable Energy, 2013, 52, 8-15.	4.3	48
96	Transesterification of waste cooking oil: Process optimization and conversion rate evaluation. Energy Conversion and Management, 2013, 65, 764-769.	4.4	84
97	Thermodynamic equilibrium analysis of coal gasification using Gibbs energy minimization method. Energy Conversion and Management, 2013, 65, 755-763.	4.4	194
98	Numerical and experimental investigation of downdraft gasification of wood chips. Energy Conversion and Management, 2013, 65, 783-792.	4.4	99
99	Plasma gasification process: Modeling, simulation and comparison with conventional air gasification. Energy Conversion and Management, 2013, 65, 801-809.	4.4	157
100	Numerical simulation of vapor flow and pressure drop across the demister of MSF desalination plant. Energy Conversion and Management, 2013, 65, 793-800.	4.4	17
101	Combustion of alternative fuels in vortex trapped combustor. Energy Conversion and Management, 2013, 65, 819-828.	4.4	32
102	Simulation of the processes inside an entrained flow gasifier. , 2013, , .		0
103	Gasification of tire crumbs inside a drop tube reactor: Seeking optimal conversion conditions. , 2013, , .		0
104	Investigating blade performance of small horizontal axis wind turbine based on blade element momentum theory. , 2013, , .		4
105	Sulphuric acid modified biomass: A novel acid catalyst for effective esterification of free fatty acids for biodiesel production. , 2013, , .		1
106	Mechanical recycling of cross-link polyethylene: Assessment of static and viscoplastic properties. , 2013, , .		3
107	Large Eddy Simulation of Wind Loads on a Low-Rise Structure and Comparison with Wind Tunnel Results. Applied Mechanics and Materials, 2012, 152-154, 1806-1813.	0.2	6
108	CFD Analysis of Wind Loads on Permeable Low-Rise Structures. Applied Mechanics and Materials, 2012, 152-154, 1814-1820.	0.2	0

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109	Wind energy assessment: Masdar city case study. , 2012, , .		1
110	Development and application of an improved blade element momentum method model on horizontal axis wind turbines. International Journal of Energy and Environmental Engineering, 2012, 3, 30.	1.3	31
111	Simulation of Flow Inside Heat Pipe: Sensitivity Study, Conditions and Configuration. , 2011, , .		4
112	Kinetics of pyrolysis and combustion of oil shale sample from thermogravimetric data. Fuel, 2011, 90, 1631-1637.	3.4	96
113	Plasma Gasification Process Modeling and Energy Recovery From Solid Waste. , 2011, , .		8
114	Thermodynamics Equilibrium Analysis within the Entrained Flow Gasifier Environment. CIM Journal, 2011, 4, 47-54.	0.3	30
115	CFD analysis of the effects of co-firing biomass with coal. Energy Conversion and Management, 2010, 51, 1694-1701.	4.4	74
116	Aerodynamic flow simulation of wind turbine: Downwind versus upwind configuration. Energy Conversion and Management, 2010, 51, 1656-1663.	4.4	25
117	Numerical Simulation of Tower Rotor Interaction for Downwind Wind Turbine. Modelling and Simulation in Engineering, 2010, 2010, 1-11.	0.4	16
118	Wind Data Collection and Analyses at Masdar City for Wind Turbine Assessment. CIM Journal, 2010, 1, 43-50.	0.3	9
119	Solar Assisted Gasification: Systematic Analysis and Numerical Simulation. CIM Journal, 2010, 1, 81-90.	0.3	7
120	Atmospheric Wind Data Collection and Wind Turbine Analysis in UAE. , 2009, , .		1
121	Spectral Energy Transfer in Transition of Plane Wake. Journal of Engineering Mechanics - ASCE, 1997, 123, 837-842.	1.6	2
122	First passage probability of a linear oscillator with probabilistic barriers. Journal of Wind Engineering and Industrial Aerodynamics, 1990, 34, 197-212.	1.7	1
123	Direct contact membrane distillation: the role of membrane porosity. , 0, 100, 258-267.		5