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List of Publications by Year in descending order

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papers

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430874

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666
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent developments in solid desiccant coated heat exchangers – A review. <i>Applied Energy</i> , 2018, 229, 778-803.	10.1	148
2	Isotherms and thermodynamics for the adsorption of n-butane on pitch based activated carbon. <i>International Journal of Heat and Mass Transfer</i> , 2008, 51, 1582-1589.	4.8	73
3	Performance evaluation of PVA-LiCl coated heat exchangers for next-generation of energy-efficient dehumidification. <i>Applied Energy</i> , 2019, 237, 733-750.	10.1	64
4	Modelling and experimental investigation of the cross-flow dew point evaporative cooler with and without dehumidification. <i>Applied Thermal Engineering</i> , 2017, 121, 1-13.	6.0	58
5	A thermodynamic perspective to study energy performance of vacuum-based membrane dehumidification. <i>Energy</i> , 2017, 132, 106-115.	8.8	51
6	Effect of hygroscopic materials on water vapor permeation and dehumidification performance of poly(vinyl alcohol) membranes. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	48
7	Theoretical performance analysis of silica gel and composite polymer desiccant coated heat exchangers based on a CFD approach. <i>Energy Conversion and Management</i> , 2019, 187, 423-446.	9.2	44
8	Unsteady-state analysis of a counter-flow dew point evaporative cooling system. <i>Energy</i> , 2016, 113, 172-185.	8.8	42
9	Multivariate scaling and dimensional analysis of the counter-flow dew point evaporative cooler. <i>Energy Conversion and Management</i> , 2017, 150, 172-187.	9.2	42
10	Evaluation of a solar-powered spray-assisted low-temperature desalination technology. <i>Applied Energy</i> , 2018, 211, 997-1008.	10.1	38
11	Energy, economic and environmental (3E) analysis and multi-objective optimization of a spray-assisted low-temperature desalination system. <i>Energy</i> , 2018, 151, 387-401.	8.8	38
12	Approaches to energy efficiency in air conditioning: A comparative study on purge configurations for indirect evaporative cooling. <i>Energy</i> , 2019, 168, 505-515.	8.8	34
13	Energy, exergy and economic analysis of a hybrid spray-assisted low-temperature desalination/thermal vapor compression system. <i>Energy</i> , 2019, 166, 871-885.	8.8	34
14	A hybrid indirect evaporative cooling-mechanical vapor compression process for energy-efficient air conditioning. <i>Energy Conversion and Management</i> , 2021, 248, 114798.	9.2	30
15	Thermodynamic optimization of a vacuum multi-effect membrane distillation system for liquid desiccant regeneration. <i>Applied Energy</i> , 2018, 230, 960-973.	10.1	28
16	On the second law analysis of a multi-stage spray-assisted low-temperature desalination system. <i>Energy Conversion and Management</i> , 2017, 148, 1306-1316.	9.2	23
17	Adsorption Parameter and Heat of Adsorption of Activated Carbon/HFC-134a Pair. <i>Heat Transfer Engineering</i> , 2010, 31, 910-916.	1.9	21
18	Studying the performance of a dehumidifier with adsorbent coated heat exchangers for tropical climate operations. <i>Science and Technology for the Built Environment</i> , 2017, 23, 127-135.	1.7	21

#	ARTICLE	IF	CITATIONS
19	Experimental study of a sustainable cooling process hybridizing indirect evaporative cooling and mechanical vapor compression. Energy Reports, 2022, 8, 7945-7956.	5.1	18
20	Experimental Study on the Performance of Membrane based Multi- effect Dehumidifier Regenerator Powered by Solar Energy. Energy Procedia, 2014, 48, 535-542.	1.8	17
21	A spray-assisted multi-effect distillation system driven by ocean thermocline energy. Energy Conversion and Management, 2021, 245, 114570.	9.2	13
22	Thermodynamic optimization of a low-temperature desalination system driven by sensible heat sources. Energy, 2020, 192, 116633.	8.8	11
23	Optimization of Solar (Thermal) Powered Membrane Based Multi-Effect Regenerator. , 2016, , .		0