

Ahmed As Askalany

List of Publications by Year in descending order

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58
papers

1,956
citations

186265

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265206

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58
docs citations

58
times ranked

1081
citing authors

#	ARTICLE	IF	CITATIONS
1	An overview on adsorption pairs for cooling. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 19, 565-572.	16.4	124
2	Performance evaluation of a solar-driven adsorption desalination-cooling system. <i>Energy</i> , 2017, 128, 196-207.	8.8	114
3	Waste heat-driven desalination systems: Perspective. <i>Energy</i> , 2020, 209, 118373.	8.8	91
4	A state of the art of hybrid adsorption desalination-cooling systems. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 58, 692-703.	16.4	79
5	An overview on adsorption cooling systems powered by waste heat from internal combustion engine. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 51, 1223-1234.	16.4	70
6	A review on adsorption cooling systems with adsorbent carbon. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 493-500.	16.4	68
7	Identifying optimal operating conditions of solar-driven silica gel based adsorption desalination cooling system via modern optimization. <i>Solar Energy</i> , 2019, 181, 475-489.	6.1	68
8	Recent updates on the adsorption capacities of adsorbent-adsorbate pairs for heat transformation applications. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 119, 109630.	16.4	68
9	Recycling brine water of reverse osmosis desalination employing adsorption desalination: A theoretical simulation. <i>Desalination</i> , 2017, 408, 13-24.	8.2	66
10	Effect of improving thermal conductivity of the adsorbent on performance of adsorption cooling system. <i>Applied Thermal Engineering</i> , 2017, 110, 695-702.	6.0	63
11	Weather effect on a solar powered hybrid adsorption desalination-cooling system: A case study of Egypt's climate. <i>Applied Thermal Engineering</i> , 2017, 124, 663-672.	6.0	54
12	Adsorption cooling system employing granular activated carbon-R134a pair for renewable energy applications. <i>International Journal of Refrigeration</i> , 2013, 36, 1037-1044.	3.4	47
13	Adsorption desalination-cooling system employing copper sulfate driven by low grade heat sources. <i>Applied Thermal Engineering</i> , 2018, 136, 169-176.	6.0	47
14	A novel cycle for adsorption desalination system with two stages-ejector for higher water production and efficiency. <i>Desalination</i> , 2020, 496, 114753.	8.2	44
15	Experimental study on Egyptian biomass combustion in circulating fluidized bed. <i>Applied Energy</i> , 2009, 86, 2644-2650.	10.1	43
16	Experimental study on adsorption-desorption characteristics of granular activated carbon/R134a pair. <i>International Journal of Refrigeration</i> , 2012, 35, 494-498.	3.4	42
17	Solar-powered ejector-based adsorption desalination system integrated with a humidification-dehumidification system. <i>Energy Conversion and Management</i> , 2021, 238, 114113.	9.2	42
18	Innovative mechanical vapor compression adsorption desalination (MVC-AD) system. <i>Applied Thermal Engineering</i> , 2016, 106, 286-292.	6.0	40

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19	Metal-organic frameworks in cooling and water desalination: Synthesis and application. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111362.	16.4	39
20	Adsorption isotherms and kinetics of activated carbon/Difluoroethane adsorption pair: Theory and experiments. <i>International Journal of Refrigeration</i> , 2016, 70, 196-205.	3.4	38
21	Hybrid adsorption cooling systems—An overview. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 5787-5801.	16.4	36
22	Experimental optimization of the cycle time and switching time of a metal organic framework adsorption desalination cycle. <i>Energy Conversion and Management</i> , 2021, 245, 114558.	9.2	36
23	Adsorption isotherms and kinetics of HFC410A onto activated carbons. <i>Applied Thermal Engineering</i> , 2014, 72, 237-243.	6.0	34
24	Adsorption Isotherms and Heat of Adsorption of Difluoromethane on Activated Carbons. <i>Journal of Chemical & Engineering Data</i> , 2013, 58, 2828-2834.	1.9	33
25	Adsorption isotherms and kinetics of HFC-404A onto bituminous based granular activated carbon for storage and cooling applications. <i>Applied Thermal Engineering</i> , 2016, 105, 639-645.	6.0	31
26	Silica-Supported Ionic Liquids for Heat-Powered Sorption Desalination. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 36497-36505.	8.0	31
27	Experimental and theoretical study of adsorption kinetics of Difluoromethane onto activated carbons. <i>International Journal of Refrigeration</i> , 2015, 49, 160-168.	3.4	30
28	Towards an accurate estimation of the isosteric heat of adsorption — A correlation with the potential theory. <i>Journal of Colloid and Interface Science</i> , 2017, 490, 59-63.	9.4	29
29	Adsorption isotherms and kinetics of a mixture of Pentafluoroethane, 1,1,1,2-Tetrafluoroethane and Difluoromethane (HFC-407C) onto granular activated carbon. <i>Applied Thermal Engineering</i> , 2016, 93, 988-994.	6.0	26
30	A daily freshwater production of 50 m ³ /ton of silica gel using an adsorption-ejector combination powered by low-grade heat. <i>Journal of Cleaner Production</i> , 2021, 282, 124494.	9.3	25
31	Derivation of isosteric heat of adsorption for non-ideal gases. <i>International Journal of Heat and Mass Transfer</i> , 2015, 89, 186-192.	4.8	23
32	Efficient drying in washer dryers by combining sorption and heat pumping. <i>Energy</i> , 2019, 183, 683-692.	8.8	23
33	High potential of employing bentonite in adsorption cooling systems driven by low grade heat source temperatures. <i>Energy</i> , 2017, 141, 782-791.	8.8	22
34	Supported ionic liquid water sorbent for high throughput desalination and drying. <i>Desalination</i> , 2019, 452, 258-264.	8.2	22
35	Innovative employing of salt hydration with adsorption to enhance performance of desalination and heat transformation systems. <i>Applied Thermal Engineering</i> , 2020, 179, 115614.	6.0	22
36	Experimental adsorption water desalination system utilizing activated clay for low grade heat source applications. <i>Journal of Energy Storage</i> , 2021, 43, 103219.	8.1	22

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37	Experimental investigation of hybrid photovoltaic solar thermal collector (PV/T)-adsorption desalination system in hot weather conditions. <i>Energy</i> , 2022, 254, 124370.	8.8	22
38	Solar powered adsorption desalination system employing CPO-27(Ni). <i>Journal of Energy Storage</i> , 2022, 53, 105174.	8.1	21
39	Performance enhancement of adsorption cooling cycle by pyrolysis of Maxsorb III activated carbon with ammonium carbonate. <i>International Journal of Refrigeration</i> , 2021, 126, 210-221.	3.4	19
40	A state of the art of required techniques for employing activated carbon in renewable energy powered adsorption applications. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 79, 503-519.	16.4	18
41	Maxsorb III/HFC404a as an adsorption pair for renewable energy driven systems. <i>International Journal of Refrigeration</i> , 2020, 120, 12-21.	3.4	17
42	Laparoscopic management of ovarian dermoid cysts: potential fear of dermoid spill, myths and facts. <i>Gynecological Surgery</i> , 2007, 4, 255-260.	0.9	15
43	Cooling technologies for enhancing photovoltaic-thermal (PVT) performance: a state of the art. <i>International Journal of Energy and Environmental Engineering</i> , 2022, 13, 1205-1235.	2.5	15
44	Composite adsorbent materials for desalination and cooling applications: A state of the art. <i>International Journal of Energy Research</i> , 2022, 46, 10345-10371.	4.5	15
45	Experimental investigation of sodium polyacrylate-based innovative adsorbent material for higher desalination and cooling effects. <i>Energy Conversion and Management</i> , 2022, 266, 115818.	9.2	15
46	Hydrothermal stability of water sorption ionogels. <i>Energy</i> , 2019, 189, 116186.	8.8	13
47	Productivity Improvements of Adsorption Desalination Systems. <i>Green Energy and Technology</i> , 2019, , 325-357.	0.6	13
48	Design and performance analysis of a thermoelectric air-conditioning system driven by solar photovoltaic panels. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021, 235, 5146-5159.	2.1	13
49	A new approach integration of ejector within adsorption desalination cycle reaching COP higher than one. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 41, 100766.	2.7	10
50	Water desalination by silica supported ionic liquid: Adsorption kinetics and system modeling. <i>Energy</i> , 2022, 239, 122069.	8.8	10
51	Novel ultrasonic dynamic vapor sorption apparatus for adsorption drying, cooling and desalination applications. <i>Energy Reports</i> , 2022, 8, 8798-8804.	5.1	10
52	Uranium Dynamic Adsorption Breakthrough Curve onto Rice Straw Based Activated Carbon Using Bed Depth Service Time Model. <i>BioResources</i> , 2018, 13, .	1.0	8
53	A novel ejectors integration with two-stages adsorption desalination: Away to scavenge the ambient energy. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 48, 101658.	2.7	8
54	Treatment of heavy menstrual bleeding associated with uterine leiomyoma with the levonorgestrel-releasing intrauterine system. <i>Gynecological Surgery</i> , 2009, 6, 331-337.	0.9	6

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55	Highly porous activated carbon based adsorption cooling system employing difluoromethane and a mixture of pentafluoroethane and difluoromethane. Heat and Mass Transfer, 2017, 53, 107-114.	2.1	6
56	Artificial Intelligence Based Modelling of Adsorption Water Desalination System. Mathematics, 2021, 9, 1674.	2.2	5
57	Adsorption Cooling System Employing Activated Carbon/R32 Adsorption Pair. MATEC Web of Conferences, 2014, 13, 06001.	0.2	4
58	Duplicating Freshwater Productivity of Adsorption Desalination System Using Aluminum Metal Filings. Water (Switzerland), 2021, 13, 3231.	2.7	1