

Mohammad Alghoul

List of Publications by Year in descending order

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101
papers

5,112
citations

87888

38
h-index

95266

68
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101
all docs

101
docs citations

101
times ranked

5376
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in cellulose-based hydrophobic food packaging. <i>Emergent Materials</i> , 2022, 5, 703-718.	5.7	22
2	The Physical and Mechanical Properties of Autoclaved Aerated Concrete (AAC) with Recycled AAC as a Partial Replacement for Sand. <i>Buildings</i> , 2022, 12, 60.	3.1	14
3	Sustainability of Heating, Ventilation and Air-Conditioning (HVAC) Systems in Buildings—An Overview. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 1016.	2.6	30
4	Perspectives in biopolymer/graphene-based composite application: Advances, challenges, and recommendations. <i>Nanotechnology Reviews</i> , 2022, 11, 1525-1554.	5.8	8
5	Development of green photocatalytic geopolymers for dye removal. <i>Materials Chemistry and Physics</i> , 2022, 283, 126020.	4.0	7
6	Wastes from the petroleum industries as sustainable resource materials in construction sectors: Opportunities, limitations, and directions. <i>Journal of Cleaner Production</i> , 2021, 284, 125459.	9.3	40
7	Sorbent-based air water-harvesting systems: progress, limitation, and consideration. <i>Reviews in Environmental Science and Biotechnology</i> , 2021, 20, 257-279.	8.1	17
8	Developing of Chemically Treated Waste Biomass Adsorbent for Dye Removal. <i>Journal of Natural Fibers</i> , 2021, 18, 968-977.	3.1	12
9	Porosity Estimation of Mesoporous TiO ₂ –ZnO Nanocrystalline by Artificial Neural Network Modeling. <i>Chemical Engineering and Technology</i> , 2021, 44, 1058-1074.	1.5	2
10	Review of the valorization options for the proper disposal of face masks during the COVID-19 pandemic. <i>Environmental Technology and Innovation</i> , 2021, 23, 101797.	6.1	41
11	An Overview of the Building Energy Management System Considering the Demand Response Programs, Smart Strategies and Smart Grid. <i>Energies</i> , 2020, 13, 3299.	3.1	34
12	An Autonomous Home Energy Management System Using Dynamic Priority Strategy in Conventional Homes. <i>Energies</i> , 2020, 13, 3312.	3.1	8
13	Biomass and Industrial Wastes as Resource Materials for Aerogel Preparation: Opportunities, Challenges, and Research Directions. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 17621-17645.	3.7	56
14	Influence of deposition time in CdTe thin film properties grown by Close-Spaced Sublimation (CSS) for photovoltaic application. <i>Results in Physics</i> , 2019, 14, 102371.	4.1	38
15	Key factors of desiccant-based cooling systems: Materials. <i>Applied Thermal Engineering</i> , 2019, 159, 113946.	6.0	32
16	An investigation on titanium doping in reduced graphene oxide by RF magnetron sputtering for dye-sensitized solar cells. <i>Solar Energy</i> , 2019, 188, 10-18.	6.1	13
17	The role of laser ablation technique parameters in synthesis of nanoparticles from different target types. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	1.9	40
18	Performance study on photovoltaic/thermal solar-assisted heat pump system. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 136, 79-87.	3.6	46

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19	Emerging sustainable solutions for depollution: Geopolymers. <i>Construction and Building Materials</i> , 2019, 199, 540-548.	7.2	88
20	Mathematical and experimental evaluation of thermal and electrical efficiency of PV/T collector using different water based nano-fluids. <i>Energy</i> , 2018, 145, 770-792.	8.8	63
21	Experimental investigation of dust pollutants and the impact of environmental parameters on PV performance: an experimental study. <i>Environment, Development and Sustainability</i> , 2018, 20, 155-174.	5.0	40
22	Performance of basin type stepped solar still enhanced with superior design concepts. <i>Desalination</i> , 2018, 435, 198-209.	8.2	55
23	Growth optimization of ZnxCd1-xS films on ITO and FTO coated glass for alternative buffer application in CdTe thin film solar cells. <i>Optical Materials</i> , 2018, 86, 270-277.	3.6	29
24	Parametric Study on the Thermal Performance and Optimal Design Elements of Solar Air Heater Enhanced with Jet Impingement on a Corrugated Absorber Plate. <i>International Journal of Photoenergy</i> , 2018, 2018, 1-21.	2.5	18
25	Synthesis of sphere-like-crystal CdS powder and thin films using chemical residue in chemical bath deposition (CBD) for thin film solar cell application. <i>Solar Energy</i> , 2018, 173, 120-125.	6.1	13
26	A comparative study on thermally and laser annealed copper and silver doped CdTe thin film solar cells. <i>Solar Energy</i> , 2018, 173, 1-6.	6.1	14
27	The role of existing infrastructure of fuel stations in deploying solar charging systems, electric vehicles and solar energy: A preliminary analysis. <i>Technological Forecasting and Social Change</i> , 2018, 137, 317-326.	11.6	33
28	Potential of solar reflective cover on regulating the car cabin conditions and fuel consumption. <i>Applied Thermal Engineering</i> , 2018, 143, 59-71.	6.0	14
29	A review of thermoelectric power generation systems: Roles of existing test rigs/ prototypes and their associated cooling units on output performance. <i>Energy Conversion and Management</i> , 2018, 174, 138-156.	9.2	34
30	Enhancing the Performance of PV Panel Undergoing Shading Effects. <i>International Journal of Power Electronics and Drive Systems</i> , 2018, 9, 1937.	0.6	12
31	Performance analysis of solar air heater with jet impingement on corrugated absorber plate. <i>Case Studies in Thermal Engineering</i> , 2017, 10, 111-120.	5.7	102
32	Chemically Treated Rice Husk Blends as Green Desiccant Materials for Industrial Application. <i>Chemical Engineering and Technology</i> , 2017, 40, 1619-1629.	1.5	13
33	Experimental evaluation of single stage ejector-absorption cooling cycle under different design configurations. <i>Solar Energy</i> , 2017, 155, 130-141.	6.1	19
34	Enhancement aspects of single stage absorption cooling cycle: A detailed review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 77, 1010-1045.	16.4	43
35	Towards adopting passive heat dissipation approaches for temperature regulation of PV module as a sustainable solution. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 69, 961-1017.	16.4	45
36	Experimental study of the effect of fully shading on the Solar PV module performance. <i>E3S Web of Conferences</i> , 2017, 23, 01001.	0.5	21

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37	Development of Green Geopolymer Using Agricultural and Industrial Waste Materials with High Water Absorbency. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 514.	2.5	50
38	Green Material Prospects for Passive Evaporative Cooling Systems: Geopolymers. <i>Energies</i> , 2016, 9, 586.	3.1	12
39	Research and development efforts on texturization to reduce the optical losses at front surface of silicon solar cell. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 66, 380-398.	16.4	62
40	Highly efficient photocatalytic degradation of methylene blue using carbonaceous WO ₃ /TiO ₂ composites. <i>Journal of Porous Materials</i> , 2016, 23, 629-637.	2.6	8
41	Design and experimental performance of brackish water reverse osmosis desalination unit powered by 2 kW photovoltaic system. <i>Renewable Energy</i> , 2016, 93, 101-114.	8.9	70
42	Performance evaluation of flash tank-absorption cooling cycle using two ejectors. <i>Applied Thermal Engineering</i> , 2016, 101, 47-60.	6.0	13
43	The role of climatic-design-operational parameters on combined PV/T collector performance: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 57, 602-647.	16.4	91
44	Study of heat transfer due to turbulent flow of nanofluids through rib-groove channel. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 88, 012017.	0.6	0
45	Theoretical Study of New Combined Absorption-Ejector Refrigeration System. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 88, 012059.	0.6	1
46	A computation ANN model for quantifying the global solar radiation: A case study of Al-Aqabah-Jordan. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 88, 012073.	0.6	0
47	Performance enhancement of ejector-absorption cooling cycle by re-arrangement of solution streamlines and adding RHE. <i>Applied Thermal Engineering</i> , 2015, 77, 65-75.	6.0	26
48	Performances and improvement potential of solar drying system for palm oil fronds. <i>Renewable Energy</i> , 2015, 78, 561-565.	8.9	84
49	Evaluating ejector efficiency working under intermediate pressure of flash tank-absorption cooling cycle: Parametric study. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015, 95, 222-234.	3.6	12
50	Solar electricity market in Malaysia: A review of feed-in tariff policy. <i>Environmental Progress and Sustainable Energy</i> , 2015, 34, 600-606.	2.3	10
51	Enhance heat transfer in the channel with V-shaped wavy lower plate using liquid nanofluids. <i>Case Studies in Thermal Engineering</i> , 2015, 5, 13-23.	5.7	36
52	The role of enhancement techniques on heat and mass transfer characteristics of shell and tube spray evaporator: a detailed review. <i>Applied Thermal Engineering</i> , 2015, 75, 923-940.	6.0	49
53	The role of window glazing on daylighting and energy saving in buildings. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 42, 323-343.	16.4	344
54	Design characteristics of corrugated trapezoidal plate heat exchangers using nanofluids. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015, 87, 88-103.	3.6	74

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55	Annealing effect in structural and electrical properties of sputtered Mo thin film. Applied Surface Science, 2015, 334, 129-137.	6.1	41
56	Effect of dust pollutant type on photovoltaic performance. Renewable and Sustainable Energy Reviews, 2015, 41, 735-744.	16.4	184
57	Annual Energy Usage Reduction and Cost Savings of a School: End-Use Energy Analysis. Scientific World Journal, The, 2014, 2014, 1-8.	2.1	14
58	Research and Development Aspects on Chemical Preparation Techniques of Photoanodes for Dye Sensitized Solar Cells. International Journal of Photoenergy, 2014, 2014, 1-21.	2.5	56
59	Photocatalytic Degradation of Methylene Blue under UV Light Irradiation on Prepared Carbonaceous TiO_2 . Scientific World Journal, The, 2014, 2014, 1-8.	2.1	39
60	The Role of Physical Techniques on the Preparation of Photoanodes for Dye Sensitized Solar Cells. International Journal of Photoenergy, 2014, 2014, 1-19.	2.5	52
61	Estimating the CO ₂ abatement cost: Substitute Price of Avoiding CO ₂ Emission (SPAEC) by Renewable Energy's Feed in Tariff in selected countries. Renewable and Sustainable Energy Reviews, 2014, 35, 205-210.	16.4	30
62	Factors affecting basin type solar still productivity: A detailed review. Renewable and Sustainable Energy Reviews, 2014, 32, 430-447.	16.4	188
63	Techno-economic evaluation of a small-scale PV-BWRO system at different latitudes. Desalination and Water Treatment, 2014, 52, 7082-7091.	1.0	3
64	Nanofluids for improved efficiency in cooling solar collectors – A review. Renewable and Sustainable Energy Reviews, 2014, 38, 348-367.	16.4	145
65	Effect of CdCl ₂ treatment on physical properties of CdTe films with different compositions fabricated by chemical molecular beam deposition. Applied Solar Energy (English Translation of Geliotekhnika), 2013, 49, 35-39.	1.6	14
66	Evaluation of adding flash tank to solar combined ejector-absorption refrigeration system. Solar Energy, 2013, 91, 283-296.	6.1	42
67	Daylighting characteristics of existing double-skin facade office buildings. Energy and Buildings, 2013, 59, 279-286.	6.7	36
68	Thermodynamic analysis of an ejector-flash tank-absorption cooling system. Applied Thermal Engineering, 2013, 58, 85-97.	6.0	28
69	Measurements of spectral-band solar irradiance in Bangi, Malaysia. Solar Energy, 2013, 89, 62-80.	6.1	8
70	Research and development on aspects of daylighting fundamentals. Renewable and Sustainable Energy Reviews, 2013, 21, 494-505.	16.4	102
71	Research and development aspects on decentralized electrification options for rural household. Renewable and Sustainable Energy Reviews, 2013, 24, 314-324.	16.4	86
72	Revolutionary novel and low cost CMBD method for fabrication of CdTe absorber layer for use in thin film solar cells. Materials Technology, 2013, 28, 15-20.	3.0	8

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73	Characterization of a Bifacial Photovoltaic Panel Integrated with External Diffuse and Semimirror Type Reflectors. <i>International Journal of Photoenergy</i> , 2013, 2013, 1-7.	2.5	19
74	Preparation of PVP-coated copper oxide nanosheets as antibacterial and antifungal agents. <i>Journal of Materials Research</i> , 2013, 28, 3109-3118.	2.6	53
75	Effects of Transition Metal Dichalcogenide Molybdenum Disulfide Layer Formation in Copper-Zinc-Tin-Sulfur Solar Cells from Numerical Analysis. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 10NC32.	1.5	16
76	Research and development aspects of pico-hydro power. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 5861-5878.	16.4	64
77	Issues concerning atmospheric turbidity indices. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 6285-6294.	16.4	18
78	A review on the role of materials science in solar cells. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 5834-5847.	16.4	189
79	Effect of the composition on physical properties of CdTe absorber layer fabricated by chemical molecular beam deposition for use in thin film solar cells. <i>Journal of Applied Physics</i> , 2012, 112, 023517.	2.5	12
80	Solar attenuation by aerosols: An overview. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 4264-4276.	16.4	25
81	Effects of Transition Metal Dichalcogenide Molybdenum Disulfide Layer Formation in Copper-Zinc-Tin-Sulfur Solar Cells from Numerical Analysis. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 10NC32.	1.5	22
82	Review on advanced of solar assisted chemical heat pump dryer for agriculture produce. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 1152-1168.	16.4	54
83	Perspectives of double skin façade systems in buildings and energy saving. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 1468-1475.	16.4	224
84	The role of activated carbon fiber in adsorption cooling cycles. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 1708-1721.	16.4	35
85	Measurement of total and spectral solar irradiance: Overview of existing research. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 1403-1426.	16.4	29
86	Review of solar air collectors with thermal storage units. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 1476-1490.	16.4	174
87	Design aspects of small-scale photovoltaic brackish water reverse osmosis (PV-BWRO) system. <i>Desalination and Water Treatment</i> , 2011, 27, 210-223.	1.0	8
88	PERSPECTIVE OF NANOMATERIALS IN SOLAR CELL. <i>International Journal of Nanoscience</i> , 2011, 10, 1197-1208.	0.7	1
89	Review of solar dryers for agricultural and marine products. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 1-30.	16.4	288
90	Prospects of Back Surface Field Effect in Ultra-Thin High-Efficiency CdS/CdTe Solar Cells from Numerical Modeling. <i>International Journal of Photoenergy</i> , 2010, 2010, 1-8.	2.5	32

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91	An experimental analysis of solar-assisted chemical heat pump dryer. International Journal of Low-Carbon Technologies, 2009, 4, 78-83.	2.6	12
92	Evaluation of thermal efficiency of double-pass solar collector with porous and nonporous media. Renewable Energy, 2009, 34, 640-645.	8.9	152
93	Performance of a dual-purpose solar continuous adsorption system. Renewable Energy, 2009, 34, 920-927.	8.9	19
94	Review on solar-driven ejector refrigeration technologies. Renewable and Sustainable Energy Reviews, 2009, 13, 1338-1349.	16.4	171
95	Review of the membrane and bipolar plates materials for conventional and unitized regenerative fuel cells. Renewable and Sustainable Energy Reviews, 2009, 13, 1663-1668.	16.4	118
96	Review of brackish water reverse osmosis (BWRO) system designs. Renewable and Sustainable Energy Reviews, 2009, 13, 2661-2667.	16.4	100
97	Influences of Air Exchange Effectiveness and its Rate on Thermal Comfort: Naturally Ventilated Office. Journal of Building Physics, 2008, 32, 175-194.	2.4	13
98	Review of materials for adsorption refrigeration technology. Anti-Corrosion Methods and Materials, 2007, 54, 225-229.	1.5	19
99	Advances on multi-purpose solar adsorption systems for domestic refrigeration and water heating. Applied Thermal Engineering, 2007, 27, 813-822.	6.0	49
100	Review of materials for solar thermal collectors. Anti-Corrosion Methods and Materials, 2005, 52, 199-206.	1.5	62
101	Inorganic-based adsorbent materials for the removal of gaseous pollutants. International Journal of Environmental Science and Technology, 0, , 1.	3.5	0