

# 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  
g-index

101  
all docs

101  
docs citations

101  
times ranked

5376  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Review of solar dryers for agricultural and marine products. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 1-30.	16.4	288
3	Perspectives of double skin faade systems in buildings and energy saving. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 1468-1475.	16.4	224
4	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
5	Factors affecting basin type solar still productivity: A detailed review. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 32, 430-447.	16.4	188
6	Effect of dust pollutant type on photovoltaic performance. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 41, 735-744.	16.4	184
7	Review of solar air collectors with thermal storage units. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 1476-1490.	16.4	174
8	Review on solar-driven ejector refrigeration technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2009, 13, 1338-1349.	16.4	171
9	Evaluation of thermal efficiency of double-pass solar collector with porous“nonporous media. <i>Renewable Energy</i> , 2009, 34, 640-645.	8.9	152
10	Nanofluids for improved efficiency in cooling solar collectors “ A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 38, 348-367.	16.4	145
11	Review of the membrane and bipolar plates materials for conventional and unitized regenerative fuel cells. <i>Renewable and Sustainable Energy Reviews</i> , 2009, 13, 1663-1668.	16.4	118
12	Research and development on aspects of daylighting fundamentals. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 21, 494-505.	16.4	102
13	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
14	Review of brackish water reverse osmosis (BWRO) system designs. <i>Renewable and Sustainable Energy Reviews</i> , 2009, 13, 2661-2667.	16.4	100
15	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
16	Emerging sustainable solutions for depollution: Geopolymers. <i>Construction and Building Materials</i> , 2019, 199, 540-548.	7.2	88
17	Research and development aspects on decentralized electrification options for rural household. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 24, 314-324.	16.4	86
18	Performances and improvement potential of solar drying system for palm oil fronds. <i>Renewable Energy</i> , 2015, 78, 561-565.	8.9	84

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19	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
20	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
21	Research and development aspects of pico-hydro power. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 5861-5878.	16.4	64
22	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
23	Review of materials for solar thermal collectors. <i>Anti-Corrosion Methods and Materials</i> , 2005, 52, 199-206.	1.5	62
24	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
25	Research and Development Aspects on Chemical Preparation Techniques of Photoanodes for Dye Sensitized Solar Cells. <i>International Journal of Photoenergy</i> , 2014, 2014, 1-21.	2.5	56
26	Biomass and Industrial Wastes as Resource Materials for Aerogel Preparation: Opportunities, Challenges, and Research Directions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 17621-17645.	3.7	56
27	Performance of basin type stepped solar still enhanced with superior design concepts. <i>Desalination</i> , 2018, 435, 198-209.	8.2	55
28	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
29	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
30	The Role of Physical Techniques on the Preparation of Photoanodes for Dye Sensitized Solar Cells. <i>International Journal of Photoenergy</i> , 2014, 2014, 1-19.	2.5	52
31	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
32	Advances on multi-purpose solar adsorption systems for domestic refrigeration and water heating. <i>Applied Thermal Engineering</i> , 2007, 27, 813-822.	6.0	49
33	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
34	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
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	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

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37	Evaluation of adding flash tank to solar combined ejector-absorption refrigeration system. Solar Energy, 2013, 91, 283-296.	6.1	42
38	Annealing effect in structural and electrical properties of sputtered Mo thin film. Applied Surface Science, 2015, 334, 129-137.	6.1	41
39	Review of the valorization options for the proper disposal of face masks during the COVID-19 pandemic. Environmental Technology and Innovation, 2021, 23, 101797.	6.1	41
40	Experimental investigation of dust pollutants and the impact of environmental parameters on PV performance: an experimental study. Environment, Development and Sustainability, 2018, 20, 155-174.	5.0	40
41	The role of laser ablation technique parameters in synthesis of nanoparticles from different target types. Journal of Nanoparticle Research, 2019, 21, 1.	1.9	40
42	Wastes from the petroleum industries as sustainable resource materials in construction sectors: Opportunities, limitations, and directions. Journal of Cleaner Production, 2021, 284, 125459.	9.3	40
43	Photocatalytic Degradation of Methylene Blue under UV Light Irradiation on Prepared Carbonaceous $\text{TiO}_2$ . Scientific World Journal, The, 2014, 2014, 1-8.	2.1	39
44	Influence of deposition time in CdTe thin film properties grown by Close-Spaced Sublimation (CSS) for photovoltaic application. Results in Physics, 2019, 14, 102371.	4.1	38
45	Daylighting characteristics of existing double-skin facade office buildings. Energy and Buildings, 2013, 59, 279-286.	6.7	36
46	Enhance heat transfer in the channel with V-shaped wavy lower plate using liquid nanofluids. Case Studies in Thermal Engineering, 2015, 5, 13-23.	5.7	36
47	The role of activated carbon fiber in adsorption cooling cycles. Renewable and Sustainable Energy Reviews, 2011, 15, 1708-1721.	16.4	35
48	A review of thermoelectric power generation systems: Roles of existing test rigs/ prototypes and their associated cooling units on output performance. Energy Conversion and Management, 2018, 174, 138-156.	9.2	34
49	An Overview of the Building Energy Management System Considering the Demand Response Programs, Smart Strategies and Smart Grid. Energies, 2020, 13, 3299.	3.1	34
50	The role of existing infrastructure of fuel stations in deploying solar charging systems, electric vehicles and solar energy: A preliminary analysis. Technological Forecasting and Social Change, 2018, 137, 317-326.	11.6	33
51	Prospects of Back Surface Field Effect in Ultra-Thin High-Efficiency CdS/CdTe Solar Cells from Numerical Modeling. International Journal of Photoenergy, 2010, 2010, 1-8.	2.5	32
52	Key factors of desiccant-based cooling systems: Materials. Applied Thermal Engineering, 2019, 159, 113946.	6.0	32
53	Estimating the CO <sub>2</sub> abatement cost: Substitute Price of Avoiding CO <sub>2</sub> Emission (SPAEC) by Renewable Energy's Feed in Tariff in selected countries. Renewable and Sustainable Energy Reviews, 2014, 35, 205-210.	16.4	30
54	Sustainability of Heating, Ventilation and Air-Conditioning (HVAC) Systems in Buildings—An Overview. International Journal of Environmental Research and Public Health, 2022, 19, 1016.	2.6	30

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55	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
56	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
57	Thermodynamic analysis of an ejector-flash tank-absorption cooling system. <i>Applied Thermal Engineering</i> , 2013, 58, 85-97.	6.0	28
58	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
59	Solar attenuation by aerosols: An overview. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 4264-4276.	16.4	25
60	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
61	Recent advances in cellulose-based hydrophobic food packaging. <i>Emergent Materials</i> , 2022, 5, 703-718.	5.7	22
62	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
63	Review of materials for adsorption refrigeration technology. <i>Anti-Corrosion Methods and Materials</i> , 2007, 54, 225-229.	1.5	19
64	Performance of a dual-purpose solar continuous adsorption system. <i>Renewable Energy</i> , 2009, 34, 920-927.	8.9	19
65	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
66	Experimental evaluation of single stage ejector-absorption cooling cycle under different design configurations. <i>Solar Energy</i> , 2017, 155, 130-141.	6.1	19
67	Issues concerning atmospheric turbidity indices. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 6285-6294.	16.4	18
68	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
69	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
70	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
71	Effect of CdCl <sub>2</sub> treatment on physical properties of CdTe films with different compositions fabricated by chemical molecular beam deposition. <i>Applied Solar Energy (English Translation of Geliotekhnika)</i> , 2013, 49, 35-39.	1.6	14
72	Annual Energy Usage Reduction and Cost Savings of a School: End-Use Energy Analysis. <i>Scientific World Journal</i> , The, 2014, 2014, 1-8.	2.1	14

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73	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
74	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
75	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
76	Influences of Air Exchange Effectiveness and its Rate on Thermal Comfort: Naturally Ventilated Office. <i>Journal of Building Physics</i> , 2008, 32, 175-194.	2.4	13
77	Performance evaluation of flash tank-absorption cooling cycle using two ejectors. <i>Applied Thermal Engineering</i> , 2016, 101, 47-60.	6.0	13
78	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
79	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
80	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
81	An experimental analysis of solar-assisted chemical heat pump dryer. <i>International Journal of Low-Carbon Technologies</i> , 2009, 4, 78-83.	2.6	12
82	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
83	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
84	Green Material Prospects for Passive Evaporative Cooling Systems: Geopolymers. <i>Energies</i> , 2016, 9, 586.	3.1	12
85	Developing of Chemically Treated Waste Biomass Adsorbent for Dye Removal. <i>Journal of Natural Fibers</i> , 2021, 18, 968-977.	3.1	12
86	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
87	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
88	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
89	Measurements of spectral-band solar irradiance in Bangi, Malaysia. <i>Solar Energy</i> , 2013, 89, 62-80.	6.1	8
90	Revolutionary novel and low cost CMBD method for fabrication of CdTe absorber layer for use in thin film solar cells. <i>Materials Technology</i> , 2013, 28, 15-20.	3.0	8

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91	Highly efficient photocatalytic degradation of methylene blue using carbonaceous WO <sub>3</sub> /TiO <sub>2</sub> composites. <i>Journal of Porous Materials</i> , 2016, 23, 629-637.	2.6	8
92	An Autonomous Home Energy Management System Using Dynamic Priority Strategy in Conventional Homes. <i>Energies</i> , 2020, 13, 3312.	3.1	8
93	Perspectives in biopolymer/graphene-based composite application: Advances, challenges, and recommendations. <i>Nanotechnology Reviews</i> , 2022, 11, 1525-1554.	5.8	8
94	Development of green photocatalytic geopolymers for dye removal. <i>Materials Chemistry and Physics</i> , 2022, 283, 126020.	4.0	7
95	Techno-economic evaluation of a small-scale PV-BWRO system at different latitudes. <i>Desalination and Water Treatment</i> , 2014, 52, 7082-7091.	1.0	3
96	Porosity Estimation of Mesoporous TiO <sub>2</sub> @ ZnO Nanocrystalline by Artificial Neural Network Modeling. <i>Chemical Engineering and Technology</i> , 2021, 44, 1058-1074.	1.5	2
97	PERSPECTIVE OF NANOMATERIALS IN SOLAR CELL. <i>International Journal of Nanoscience</i> , 2011, 10, 1197-1208.	0.7	1
98	Theoretical Study of New Combined Absorption-Ejector Refrigeration System. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 88, 012059.	0.6	1
99	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
100	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
101	Inorganic-based adsorbent materials for the removal of gaseous pollutants. <i>International Journal of Environmental Science and Technology</i> , 0, , 1.	3.5	0