

# Ashmore Mawire

## List of Publications by Year in descending order

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46  
papers

874  
citations

471509

17  
h-index

477307

29  
g-index

46  
all docs

46  
docs citations

46  
times ranked

519  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental energy and exergy performance of a solar receiver for a domestic parabolic dish concentrator for teaching purposes. <i>Energy for Sustainable Development</i> , 2014, 19, 162-169.	4.5	85
2	Simulated performance of storage materials for pebble bed thermal energy storage (TES) systems. <i>Applied Energy</i> , 2009, 86, 1246-1252.	10.1	80
3	Experimental and simulated temperature distribution of an oil-pebble bed thermal energy storage system with a variable heat source. <i>Applied Thermal Engineering</i> , 2009, 29, 1086-1095.	6.0	66
4	Experimental characterisation of a thermal energy storage system using temperature and power controlled charging. <i>Renewable Energy</i> , 2008, 33, 682-693.	8.9	50
5	A comparison of experimental thermal stratification parameters for an oil/pebble-bed thermal energy storage (TES) system during charging. <i>Applied Energy</i> , 2011, 88, 4766-4778.	10.1	50
6	Performance comparison of thermal energy storage oils for solar cookers during charging. <i>Applied Thermal Engineering</i> , 2014, 73, 1323-1331.	6.0	49
7	Performance of Sunflower Oil as a sensible heat storage medium for domestic applications. <i>Journal of Energy Storage</i> , 2016, 5, 1-9.	8.1	48
8	Thermal performance comparison of three sensible heat thermal energy storage systems during charging cycles. <i>Sustainable Energy Technologies and Assessments</i> , 2018, 30, 37-51.	2.7	40
9	Performance comparison of two solar cooking storage pots combined with wonderbag slow cookers for off-sunshine cooking. <i>Solar Energy</i> , 2020, 208, 1166-1180.	6.1	40
10	Experimental and simulated thermal stratification evaluation of an oil storage tank subjected to heat losses during charging. <i>Applied Energy</i> , 2013, 108, 459-465.	10.1	33
11	A review of parabolic solar cookers with thermal energy storage. <i>Heliyon</i> , 2021, 7, e08226.	3.2	33
12	Performance comparison of four spherically encapsulated phase change materials for medium temperature domestic applications. <i>Journal of Energy Storage</i> , 2019, 23, 469-479.	8.1	24
13	Performance of two solar cooking storage pots using parabolic dish solar concentrators during solar and storage cooking periods with different heating loads. <i>Results in Engineering</i> , 2022, 13, 100336.	5.1	23
14	Experimental comparison of the thermal performances of acetanilide, meso-erythritol and an In-Sn alloy in similar spherical capsules. <i>Applied Thermal Engineering</i> , 2017, 124, 871-882.	6.0	21
15	Experimental investigation on simultaneous charging and discharging of an oil storage tank. <i>Energy Conversion and Management</i> , 2013, 65, 245-254.	9.2	20
16	Performance comparison of medium temperature domestic packed bed latent heat storage systems. <i>Renewable Energy</i> , 2020, 146, 1897-1906.	8.9	20
17	Thermal performance of a small oil-in-glass tube thermal energy storage system during charging. <i>Energy</i> , 2009, 34, 838-849.	8.8	19
18	Experimental analyses of sensible heat thermal energy storage systems during discharging. <i>Sustainable Energy Technologies and Assessments</i> , 2019, 35, 117-130.	2.7	18

#	ARTICLE	IF	CITATIONS
19	Experimental charging characteristics of medium-temperature cascaded packed bed latent heat storage systems. <i>Journal of Energy Storage</i> , 2021, 42, 103067.	8.1	17
20	A feedforward IMC structure for controlling the charging temperature of a TES system of a solar cooker. <i>Energy Conversion and Management</i> , 2008, 49, 3143-3154.	9.2	14
21	Experimental volumetric heat transfer characteristics between oil and glass pebbles in a small glass tube storage. <i>Energy</i> , 2010, 35, 1256-1263.	8.8	14
22	A mathematical procedure to predict optical efficiency of CPCs with tubular absorbers. <i>Energy</i> , 2019, 182, 187-200.	8.8	13
23	Performance comparison of two metallic eutectic solder based medium-temperature domestic thermal energy storage systems. <i>Energy</i> , 2020, 194, 116828.	8.8	12
24	Performance of a medium temperature eutectic solder packed bed latent heat storage system for domestic applications. <i>Journal of Energy Storage</i> , 2020, 28, 101294.	8.1	12
25	Energetic and exergetic performance comparison of three solar cookers for developing countries. <i>Environment, Development and Sustainability</i> , 2021, 23, 14528-14555.	5.0	10
26	Dynamic thermal performance of four encapsulated PCM spheres for domestic medium temperature applications. <i>Energy Procedia</i> , 2019, 158, 4375-4382.	1.8	9
27	Experimental thermal stratification comparison of two storage systems. <i>Energy Procedia</i> , 2017, 142, 3295-3300.	1.8	8
28	Investigation of In <sup>48</sup> Sn as a phase change material candidate for thermal storage applications. <i>Renewable Energy and Environmental Sustainability</i> , 2017, 2, 20.	1.4	8
29	Performance and design optimization of single-axis multi-position sun-tracking PV panels. <i>Journal of Renewable and Sustainable Energy</i> , 2019, 11, .	2.0	8
30	Experimental energy and exergy analyses of a discharging heat exchanger for a small hot-oil domestic storage tank. <i>International Journal of Green Energy</i> , 2018, 15, 305-313.	3.8	6
31	Experimental de-stratification and heat loss in a storage tank containing different thermal oils. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017, 39, 2279-2288.	1.6	5
32	Experimental performance evaluation of a parabolic dish solar geyser using a generalized approach for decentralized applications. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101454.	2.7	5
33	Determination of the spatial extent of the focal point of a parabolic dish reflector using a red laser diode. <i>Renewable Energy</i> , 2010, 35, 1982-1990.	8.9	4
34	A simple experiment to determine the characteristics of an NTC thermistor for low-temperature measurement applications. <i>European Journal of Physics</i> , 2012, 33, 1135-1145.	0.6	2
35	Solar Thermal Energy Storage for Solar Cookers. , 2015, , 327-358.		2
36	Energy and Exergy Performance of Three Sensible Heat Storage Systems During Charging. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
37	Parametric study on the thermal gradient of a small stratified domestic oil storage tank. , 2016, , .		1
38	Experimental comparison of the dynamic operations of a sensible heat thermal energy storage and a latent heat thermal energy storage system. , 2017, , .		1
39	Performance Comparison of a Latent Heat and Combined Thermal Energy Systems During Charging. , 2018, , .		1
40	Determination of Forced Convective Heat Transfer Coefficients on an Array of Disks. Heat Transfer Engineering, 0, , 1-13.	1.9	1
41	An experiment to evaluate the thermal performance of an oil-heating copper spiral coil. European Journal of Physics, 2013, 34, 547-557.	0.6	0
42	Investigation of aluminum encapsulation of a PCM for domestic cooking. , 2016, , .		0
43	Radial discharging thermal characteristics of a small domestic oil storage tank. , 2018, , .		0
44	Performance comparison of two eutectic solder based latent heat storage systems during discharging. IOP Conference Series: Earth and Environmental Science, 2020, 463, 012106.	0.3	0
45	Experimental study on the discharge characteristics of two eutectic solder packed bed latent heat storage systems. International Journal of Energy Research, 2020, , .	4.5	0
46	Performance of a Domestic Oil Storage Tank During Charging and Discharging Cycles. , 2017, , .		0