

Bernard Saw

List of Publications by Year in descending order

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48
papers

2,888
citations

304602

22
h-index

206029

48
g-index

48
all docs

48
docs citations

48
times ranked

2475
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational fluid dynamic and thermal analysis of Lithium-ion battery pack with air cooling. Applied Energy, 2016, 177, 783-792.	5.1	359
2	Integration issues of lithium-ion battery into electric vehicles battery pack. Journal of Cleaner Production, 2016, 113, 1032-1045.	4.6	301
3	Numerical analyses on optimizing a heat pipe thermal management system for lithium-ion batteries during fast charging. Applied Thermal Engineering, 2015, 86, 281-291.	3.0	275
4	Electrochemical thermal analysis of 18650 Lithium Iron Phosphate cell. Energy Conversion and Management, 2013, 75, 162-174.	4.4	206
5	Overview of micro-channel design for high heat flux application. Renewable and Sustainable Energy Reviews, 2018, 82, 901-914.	8.2	206
6	Novel thermal management system using mist cooling for lithium-ion battery packs. Applied Energy, 2018, 223, 146-158.	5.1	204
7	Electro-thermal analysis of Lithium Iron Phosphate battery for electric vehicles. Journal of Power Sources, 2014, 249, 231-238.	4.0	164
8	Overview of porous media/metal foam application in fuel cells and solar power systems. Renewable and Sustainable Energy Reviews, 2018, 96, 181-197.	8.2	126
9	Performance assessment and optimization of a heat pipe thermal management system for fast charging lithium ion battery packs. International Journal of Heat and Mass Transfer, 2016, 92, 893-903.	2.5	119
10	Electro-thermal analysis and integration issues of lithium ion battery for electric vehicles. Applied Energy, 2014, 131, 97-107.	5.1	102
11	Effect of thermal contact resistances on fast charging of large format lithium ion batteries. Electrochimica Acta, 2014, 134, 327-337.	2.6	102
12	Computational fluid dynamics simulation on open cell aluminium foams for Li-ion battery cooling system. Applied Energy, 2017, 204, 1489-1499.	5.1	94
13	Numerical investigation for optimizing segmented micro-channel heat sink by Taguchi-Grey method. Applied Energy, 2018, 222, 437-450.	5.1	69
14	Electro-thermal characterization of Lithium Iron Phosphate cell with equivalent circuit modeling. Energy Conversion and Management, 2014, 87, 367-377.	4.4	61
15	Influences of nano bio-filler on the fire-resistive and mechanical properties of water-based intumescent coatings. Progress in Organic Coatings, 2018, 124, 33-40.	1.9	40
16	Experimental analysis on the active and passive cool roof systems for industrial buildings in Malaysia. Journal of Building Engineering, 2018, 19, 134-141.	1.6	39
17	Sensitivity analysis of drill wear and optimization using Adaptive Neuro fuzzy genetic algorithm technique toward sustainable machining. Journal of Cleaner Production, 2018, 172, 3289-3298.	4.6	30
18	Numerical modeling of hybrid supercapacitor battery energy storage system for electric vehicles. Energy Procedia, 2019, 158, 2750-2755.	1.8	29

#	ARTICLE	IF	CITATIONS
19	Study on improvement of the selectivity of proton exchange membrane via incorporation of silicotungstic acid-doped silica into SPEEK. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 22315-22323.	3.8	29
20	Feasibility study of Boron Nitride coating on Lithium-ion battery casing. <i>Applied Thermal Engineering</i> , 2014, 73, 154-161.	3.0	27
21	Performance assessment of a hybrid solar-wind-rain eco-roof system for buildings. <i>Energy and Buildings</i> , 2016, 127, 1028-1042.	3.1	27
22	A process for deriving high quality cellulose nanofibrils from water hyacinth invasive species. <i>Cellulose</i> , 2020, 27, 3727-3740.	2.4	26
23	Simulation and evaluation of capacity recovery methods for spiral-wound lithium ion batteries. <i>Journal of Power Sources</i> , 2013, 243, 779-789.	4.0	21
24	An electro-thermal model and its application on a spiral-wound lithium ion battery with porous current collectors. <i>Electrochimica Acta</i> , 2014, 121, 143-153.	2.6	21
25	Preliminary analysis of dry-steam geothermal power plant by employing exergy assessment: Case study in Kamojang geothermal power plant, Indonesia. <i>Case Studies in Thermal Engineering</i> , 2017, 10, 292-301.	2.8	21
26	Fire Resistance and Mechanical Properties of Intumescent Coating Using Novel BioAsh for Steel. <i>Coatings</i> , 2020, 10, 1117.	1.2	21
27	Fire Protection Performance and Thermal Behavior of Thin Film Intumescent Coating. <i>Coatings</i> , 2019, 9, 483.	1.2	17
28	Preparation of Intumescent Fire Protective Coating for Fire Rated Timber Door. <i>Coatings</i> , 2019, 9, 738.	1.2	15
29	Modeling aerosol transmission of SARS-CoV-2 from human-exhaled particles in a hospital ward. <i>Environmental Science and Pollution Research</i> , 2021, 28, 53478-53492.	2.7	14
30	Influence of high-performance polypropylene fibre and heat-treated dura oil palm shell on durability properties of lightweight concrete. <i>European Journal of Environmental and Civil Engineering</i> , 2020, 24, 2469-2488.	1.0	12
31	Investigation of functionally graded metal foam thermal management system for solar cell. <i>International Journal of Energy Research</i> , 2020, 44, 9333-9349.	2.2	11
32	Feasibility study of mist cooling for lithium-ion battery. <i>Energy Procedia</i> , 2017, 142, 2592-2597.	1.8	10
33	The Performance of Shrouded Wind Turbine at Low Wind Speed Condition. <i>Energy Procedia</i> , 2019, 158, 260-265.	1.8	9
34	Numerical study of the geometrically graded metal foam for concentrated photovoltaic solar cell cooling. <i>Energy Procedia</i> , 2019, 158, 761-766.	1.8	9
35	Sensitivity analysis of heat transfer rate for smart roof design by adaptive neuro-fuzzy technique. <i>Energy and Buildings</i> , 2016, 124, 112-119.	3.1	8
36	Numerical Analyses on Aluminum Foams Cooling Plate for Lithium-ion Batteries. <i>Energy Procedia</i> , 2017, 105, 4751-4756.	1.8	8

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37	The Design, Simulation and Testing of V-shape Roof Guide Vane Integrated with an Eco-roof System. Energy Procedia, 2017, 105, 750-763.	1.8	8
38	Numerical study of the geometrically graded micro-channel heat sink for high heat flux application. Energy Procedia, 2017, 142, 4016-4021.	1.8	7
39	Performance Analysis of a Printed Circuit Heat Exchanger with a Novel Mirror-Symmetric Channel Design. Energies, 2021, 14, 4252.	1.6	6
40	Exergy Analysis of Boiler Process Powered by Biogas Fuel in Ethanol Production Plant: a Preliminary Analysis. Energy Procedia, 2017, 142, 216-223.	1.8	5
41	Preliminary Performance Tests and Simulation of a V-Shape Roof Guide Vane Mounted on an Eco-Roof System. Energies, 2018, 11, 2846.	1.6	5
42	Preliminary Techno-Environmental-Economic Evaluation of an Innovative Hybrid Renewable Energy Harvester System for Residential Application. Energies, 2019, 12, 1496.	1.6	5
43	Risk Assessment and Air Quality Study during Different Phases of COVID-19 Lockdown in an Urban Area of Klang Valley, Malaysia. Sustainability, 2021, 13, 12217.	1.6	5
44	Performance evaluation and optimization of fluidized bed boiler in ethanol plant using irreversibility analysis. Case Studies in Thermal Engineering, 2017, 10, 283-291.	2.8	4
45	Investigation of water cooled aluminium foam heat sink for concentrated photovoltaic solar cell. IOP Conference Series: Earth and Environmental Science, 2019, 268, 012007.	0.2	4
46	Effects of Flame Retardant Nano Bio-Based Filler on Fire Behaviors of Intumescent Coating. Materials Science Forum, 2019, 947, 142-147.	0.3	4
47	Enhancement of durability properties of heat-treated oil palm shell species lightweight concrete. AIP Conference Proceedings, 2017, , .	0.3	2
48	Integration of active and passive cool roof system for attic temperature reduction. AIP Conference Proceedings, 2017, , .	0.3	1