

Bernard Saw

List of Publications by Year in descending order

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48
papers

2,888
citations

304743
22
h-index

206112
48
g-index

48
all docs

48
docs citations

48
times ranked

2475
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling aerosol transmission of SARS-CoV-2 from human-exhaled particles in a hospital ward. Environmental Science and Pollution Research, 2021, 28, 53478-53492.	5.3	14
2	Performance Analysis of a Printed Circuit Heat Exchanger with a Novel Mirror-Symmetric Channel Design. Energies, 2021, 14, 4252.	3.1	6
3	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.	3.2	5
4	Influence of high-performance polypropylene fibre and heat-treated dura oil palm shell on durability properties of lightweight concrete. European Journal of Environmental and Civil Engineering, 2020, 24, 2469-2488.	2.1	12
5	Investigation of functionally graded metal foam thermal management system for solar cell. International Journal of Energy Research, 2020, 44, 9333-9349.	4.5	11
6	Study on improvement of the selectivity of proton exchange membrane via incorporation of silicotungstic acid-doped silica into SPEEK. International Journal of Hydrogen Energy, 2020, 45, 22315-22323.	7.1	29
7	Fire Resistance and Mechanical Properties of Intumescent Coating Using Novel BioAsh for Steel. Coatings, 2020, 10, 1117.	2.6	21
8	A process for deriving high quality cellulose nanofibrils from water hyacinth invasive species. Cellulose, 2020, 27, 3727-3740.	4.9	26
9	Fire Protection Performance and Thermal Behavior of Thin Film Intumescent Coating. Coatings, 2019, 9, 483.	2.6	17
10	Investigation of water cooled aluminium foam heat sink for concentrated photovoltaic solar cell. IOP Conference Series: Earth and Environmental Science, 2019, 268, 012007.	0.3	4
11	The Performance of Shrouded Wind Turbine at Low Wind Speed Condition. Energy Procedia, 2019, 158, 260-265.	1.8	9
12	Numerical study of the geometrically graded metal foam for concentrated photovoltaic solar cell cooling. Energy Procedia, 2019, 158, 761-766.	1.8	9
13	Numerical modeling of hybrid supercapacitor battery energy storage system for electric vehicles. Energy Procedia, 2019, 158, 2750-2755.	1.8	29
14	Preliminary Techno-Economic Evaluation of an Innovative Hybrid Renewable Energy Harvester System for Residential Application. Energies, 2019, 12, 1496.	3.1	5
15	Effects of Flame Retardant Nano Bio-Based Filler on Fire Behaviors of Intumescent Coating. Materials Science Forum, 2019, 947, 142-147.	0.3	4
16	Preparation of Intumescent Fire Protective Coating for Fire Rated Timber Door. Coatings, 2019, 9, 738.	2.6	15
17	Numerical investigation for optimizing segmented micro-channel heat sink by Taguchi-Grey method. Applied Energy, 2018, 222, 437-450.	10.1	69
18	Novel thermal management system using mist cooling for lithium-ion battery packs. Applied Energy, 2018, 223, 146-158.	10.1	204

#	ARTICLE	IF	CITATIONS
19	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.	9.3	30
20	Overview of micro-channel design for high heat flux application. Renewable and Sustainable Energy Reviews, 2018, 82, 901-914.	16.4	206
21	Preliminary Performance Tests and Simulation of a V-Shape Roof Guide Vane Mounted on an Eco-Roof System. Energies, 2018, 11, 2846.	3.1	5
22	Experimental analysis on the active and passive cool roof systems for industrial buildings in Malaysia. Journal of Building Engineering, 2018, 19, 134-141.	3.4	39
23	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.	3.9	40
24	Overview of porous media/metal foam application in fuel cells and solar power systems. Renewable and Sustainable Energy Reviews, 2018, 96, 181-197.	16.4	126
25	Computational fluid dynamics simulation on open cell aluminium foams for Li-ion battery cooling system. Applied Energy, 2017, 204, 1489-1499.	10.1	94
26	Numerical Analyses on Aluminum Foams Cooling Plate for Lithium-ion Batteries. Energy Procedia, 2017, 105, 4751-4756.	1.8	8
27	Enhancement of durability properties of heat-treated oil palm shell species lightweight concrete. AIP Conference Proceedings, 2017, , .	0.4	2
28	Integration of active and passive cool roof system for attic temperature reduction. AIP Conference Proceedings, 2017, , .	0.4	1
29	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
30	Preliminary analysis of dry-steam geothermal power plant by employing exergy assessment: Case study in Kamojang geothermal power plant, Indonesia. Case Studies in Thermal Engineering, 2017, 10, 292-301.	5.7	21
31	Performance evaluation and optimization of fluidized bed boiler in ethanol plant using irreversibility analysis. Case Studies in Thermal Engineering, 2017, 10, 283-291.	5.7	4
32	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
33	Numerical study of the geometrically graded micro-channel heat sink for high heat flux application. Energy Procedia, 2017, 142, 4016-4021.	1.8	7
34	Feasibility study of mist cooling for lithium-ion battery. Energy Procedia, 2017, 142, 2592-2597.	1.8	10
35	Sensitivity analysis of heat transfer rate for smart roof design by adaptive neuro-fuzzy technique. Energy and Buildings, 2016, 124, 112-119.	6.7	8
36	Computational fluid dynamic and thermal analysis of Lithium-ion battery pack with air cooling. Applied Energy, 2016, 177, 783-792.	10.1	359

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37	Performance assessment of a hybrid solar-wind-rain eco-roof system for buildings. Energy and Buildings, 2016, 127, 1028-1042.	6.7	27
38	Integration issues of lithium-ion battery into electric vehicles battery pack. Journal of Cleaner Production, 2016, 113, 1032-1045.	9.3	301
39	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.	4.8	119
40	Numerical analyses on optimizing a heat pipe thermal management system for lithium-ion batteries during fast charging. Applied Thermal Engineering, 2015, 86, 281-291.	6.0	275
41	Electro-thermal analysis of Lithium Iron Phosphate battery for electric vehicles. Journal of Power Sources, 2014, 249, 231-238.	7.8	164
42	Electro-thermal characterization of Lithium Iron Phosphate cell with equivalent circuit modeling. Energy Conversion and Management, 2014, 87, 367-377.	9.2	61
43	Feasibility study of Boron Nitride coating on Lithium-ion battery casing. Applied Thermal Engineering, 2014, 73, 154-161.	6.0	27
44	An electro-thermal model and its application on a spiral-wound lithium ion battery with porous current collectors. Electrochimica Acta, 2014, 121, 143-153.	5.2	21
45	Electro-thermal analysis and integration issues of lithium ion battery for electric vehicles. Applied Energy, 2014, 131, 97-107.	10.1	102
46	Effect of thermal contact resistances on fast charging of large format lithium ion batteries. Electrochimica Acta, 2014, 134, 327-337.	5.2	102
47	Electrochemical-thermal analysis of 18650 Lithium Iron Phosphate cell. Energy Conversion and Management, 2013, 75, 162-174.	9.2	206
48	Simulation and evaluation of capacity recovery methods for spiral-wound lithium ion batteries. Journal of Power Sources, 2013, 243, 779-789.	7.8	21