Dasheng Lee

List of Publications by Year
in descending order

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42	2,437	394421 19	276875 41
papers	citations	h-index	g-index

42	42	42	2313
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A short-term building cooling load prediction method using deep learning algorithms. Applied Energy, 2017, 195, 222-233.	10.1	481
2	Development of prediction models for next-day building energy consumption and peak power demand using data mining techniques. Applied Energy, 2014, 127, 1-10.	10.1	414
3	Energy savings by energy management systems: A review. Renewable and Sustainable Energy Reviews, 2016, 56, 760-777.	16.4	246
4	Pattern recognition-based chillers fault detection method using Support Vector Data Description (SVDD). Applied Energy, 2013, 112, 1041-1048.	10.1	201
5	Analytical investigation of autoencoder-based methods for unsupervised anomaly detection in building energy data. Applied Energy, 2018, 211, 1123-1135.	10.1	183
6	Statistical investigations of transfer learning-based methodology for short-term building energy predictions. Applied Energy, 2020, 262, 114499.	10.1	130
7	Advanced data analytics for enhancing building performances: From data-driven to big data-driven approaches. Building Simulation, 2021, 14, 3-24.	5.6	116
8	A novel methodology to explain and evaluate data-driven building energy performance models based on interpretable machine learning. Applied Energy, 2019, 235, 1551-1560.	10.1	103
9	Development of an ANN-based building energy model for information-poor buildings using transfer learning. Building Simulation, 2021, 14, 89-101.	5.6	57
10	Study and Implementation of a Two-Phase Interleaved Bidirectional DC/DC Converter for Vehicle and DC-Microgrid Systems. Energies, 2015, 8, 9969-9991.	3.1	54
11	DNA detection using commercial mobile phones. Biosensors and Bioelectronics, 2011, 26, 4349-4354.	10.1	49
12	Smart Sensors Enable Smart Air Conditioning Control. Sensors, 2014, 14, 11179-11203.	3.8	49
13	Energy Harvesting Chip and the Chip Based Power Supply Development for a Wireless Sensor Network. Sensors, 2008, 8, 7690-7714.	3.8	32
14	The evolution of real-time PCR machines to real-time PCR chips. Biosensors and Bioelectronics, 2010, 25, 1820-1824.	10.1	29
15	Wireless and Powerless Sensing Node System Developed for Monitoring Motors. Sensors, 2008, 8, 5005-5022.	3.8	27
16	A Wireless Sensor Enabled by Wireless Power. Sensors, 2012, 12, 16116-16143.	3.8	26
17	Enabling Smart Air Conditioning by Sensor Development: A Review. Sensors, 2016, 16, 2028.	3.8	24
18	Artificial Intelligence-Assisted Heating Ventilation and Air Conditioning Control and the Unmet Demand for Sensors: Part 1. Problem Formulation and the Hypothesis. Sensors, 2019, 19, 1131.	3.8	23

#	Article	IF	Citations
19	Energy Saving Effects of Wireless Sensor Networks: A Case Study of Convenience Stores in Taiwan. Sensors, 2011, 11, 2013-2034.	3.8	21
20	Air Conditioning Energy Saving from Cloud-Based Artificial Intelligence: Case Study of a Split-Type Air Conditioner. Energies, 2020, 13, 2001.	3.1	17
21	Universal workflow of artificial intelligence for energy saving. Energy Reports, 2022, 8, 1602-1633.	5.1	17
22	Artificial intelligence implementation framework development for building energy saving. International Journal of Energy Research, 2020, 44, 11908-11929.	4.5	14
23	Development of Light Powered Sensor Networks for Thermal Comfort Measurement. Sensors, 2008, 8, 6417-6432.	3.8	12
24	The Energy Savings and Environmental Benefits for Small and Medium Enterprises by Cloud Energy Management System. Sustainability, 2016, 8, 531.	3.2	12
25	Smart manufacturing with the Internet of makers. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2017, 40, 585-592.	1.1	12
26	Real-time PCR Machine System Modeling and a Systematic Approach for the Robust Design of a Real-time PCR-on-a-Chip System. Sensors, 2010, 10, 697-718.	3.8	11
27	Artificial intelligence assisted false alarm detection and diagnosis system development for reducing maintenance cost of chillers at the data centre. Journal of Building Engineering, 2021, 36, 102110.	3.4	10
28	Smart-valve-assisted model-free predictive control system for chiller plants. Energy and Buildings, 2021, 234, 110708.	6.7	9
29	Novel Real-Time Temperature Diagnosis of Conventional Hot-Embossing Process Using an Ultrasonic Transducer. Sensors, 2014, 14, 19493-19506.	3.8	8
30	The Development of Cloud Energy Management. Energies, 2015, 8, 4357-4377.	3.1	8
31	A Lean Manufacturing Progress Model and Implementation for SMEs in the Metal Products Industry. Processes, 2022, 10, 835.	2.8	7
32	Experimental investigation on the improved cooling seasonal performance factor by recycling air flow energy from AC outdoor fans. Case Studies in Thermal Engineering, 2021, 28, 101364.	5.7	6
33	Development of a temperature sensor array chip and a chip-based real-time PCR machine for DNA amplification efficiency-based quantification. Biosensors and Bioelectronics, 2008, 23, 971-979.	10.1	5
34	Artificial Intelligence Assisted Heating Ventilation and Air Conditioning Control and the Unmet Demand for Sensors: Part 2. Prior Information Notice (PIN) Sensor Design and Simulation Results. Sensors, 2019, 19, 3440.	3.8	5
35	Development of the pipetting error sensor. Sensors and Actuators B: Chemical, 2006, 119, 150-158.	7.8	4
36	Novel Real-Time Diagnosis of the Freezing Process Using an Ultrasonic Transducer. Sensors, 2015, 15, 10332-10349.	3.8	3

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37	An isolated AC module for photovoltaic energy conversion. International Journal of Green Energy, 2016, 13, 1460-1466.	3.8	3
38	Return on investment of building energy management system: A review. International Journal of Energy Research, 2018, 42, 4034-4053.	4.5	3
39	Investigating Energy-Saving Potentials in the Cloud. Sensors, 2014, 14, 3578-3603.	3.8	2
40	Design and application of evaporative cooler for a freezer. Applied Thermal Engineering, 2020, 178, 115411.	6.0	2
41	Sustainable Air-Conditioning Systems Enabled by Artificial Intelligence: Research Status, Enterprise Patent Analysis, and Future Prospects. Sustainability, 2022, 14, 7514.	3.2	2
42	An integrated two-input three-output DC/DC boost converter with fuel-cell/battery energy resources for HEV and DC-distribution system. , 2016, , .		0