Dasheng Lee

List of Publications by Year
in descending order

42 papers	2,437 citations	394421 19 h-index	276875 41 g-index
42 all docs	42 docs citations	42 times ranked	2313 citing authors

#	Article	IF	Citations
1	Universal workflow of artificial intelligence for energy saving. Energy Reports, 2022, 8, 1602-1633.	5.1	17
2	A Lean Manufacturing Progress Model and Implementation for SMEs in the Metal Products Industry. Processes, 2022, 10, 835.	2.8	7
3	Sustainable Air-Conditioning Systems Enabled by Artificial Intelligence: Research Status, Enterprise Patent Analysis, and Future Prospects. Sustainability, 2022, 14, 7514.	3.2	2
4	Advanced data analytics for enhancing building performances: From data-driven to big data-driven approaches. Building Simulation, 2021, 14, 3-24.	5.6	116
5	Development of an ANN-based building energy model for information-poor buildings using transfer learning. Building Simulation, 2021, 14, 89-101.	5.6	57
6	Smart-valve-assisted model-free predictive control system for chiller plants. Energy and Buildings, 2021, 234, 110708.	6.7	9
7	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
8	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
9	Artificial intelligence implementation framework development for building energy saving. International Journal of Energy Research, 2020, 44, 11908-11929.	4.5	14
10	Air Conditioning Energy Saving from Cloud-Based Artificial Intelligence: Case Study of a Split-Type Air Conditioner. Energies, 2020, 13, 2001.	3.1	17
11	Design and application of evaporative cooler for a freezer. Applied Thermal Engineering, 2020, 178, 115411.	6.0	2
12	Statistical investigations of transfer learning-based methodology for short-term building energy predictions. Applied Energy, 2020, 262, 114499.	10.1	130
13	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
14	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
15	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
16	Analytical investigation of autoencoder-based methods for unsupervised anomaly detection in building energy data. Applied Energy, 2018, 211, 1123-1135.	10.1	183
17	Return on investment of building energy management system: A review. International Journal of Energy Research, 2018, 42, 4034-4053.	4.5	3
18	A short-term building cooling load prediction method using deep learning algorithms. Applied Energy, 2017, 195, 222-233.	10.1	481

#	Article	IF	Citations
19	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
20	The Energy Savings and Environmental Benefits for Small and Medium Enterprises by Cloud Energy Management System. Sustainability, 2016, 8, 531.	3.2	12
21	Enabling Smart Air Conditioning by Sensor Development: A Review. Sensors, 2016, 16, 2028.	3.8	24
22	An isolated AC module for photovoltaic energy conversion. International Journal of Green Energy, 2016, 13, 1460-1466.	3.8	3
23	An integrated two-input three-output DC/DC boost converter with fuel-cell/battery energy resources for HEV and DC-distribution system. , 2016, , .		0
24	Energy savings by energy management systems: A review. Renewable and Sustainable Energy Reviews, 2016, 56, 760-777.	16.4	246
25	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
26	Novel Real-Time Diagnosis of the Freezing Process Using an Ultrasonic Transducer. Sensors, 2015, 15, 10332-10349.	3.8	3
27	The Development of Cloud Energy Management. Energies, 2015, 8, 4357-4377.	3.1	8
28	Investigating Energy-Saving Potentials in the Cloud. Sensors, 2014, 14, 3578-3603.	3.8	2
29	Smart Sensors Enable Smart Air Conditioning Control. Sensors, 2014, 14, 11179-11203.	3.8	49
30	Novel Real-Time Temperature Diagnosis of Conventional Hot-Embossing Process Using an Ultrasonic Transducer. Sensors, 2014, 14, 19493-19506.	3.8	8
31	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
32	Pattern recognition-based chillers fault detection method using Support Vector Data Description (SVDD). Applied Energy, 2013, 112, 1041-1048.	10.1	201
33	A Wireless Sensor Enabled by Wireless Power. Sensors, 2012, 12, 16116-16143.	3.8	26
34	DNA detection using commercial mobile phones. Biosensors and Bioelectronics, 2011, 26, 4349-4354.	10.1	49
35	Energy Saving Effects of Wireless Sensor Networks: A Case Study of Convenience Stores in Taiwan. Sensors, 2011, 11, 2013-2034.	3.8	21
36	The evolution of real-time PCR machines to real-time PCR chips. Biosensors and Bioelectronics, 2010, 25, 1820-1824.	10.1	29

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	Energy Harvesting Chip and the Chip Based Power Supply Development for a Wireless Sensor Network. Sensors, 2008, 8, 7690-7714.	3.8	32
40	Wireless and Powerless Sensing Node System Developed for Monitoring Motors. Sensors, 2008, 8, 5005-5022.	3.8	27
41	Development of Light Powered Sensor Networks for Thermal Comfort Measurement. Sensors, 2008, 8, 6417-6432.	3.8	12
42	Development of the pipetting error sensor. Sensors and Actuators B: Chemical, 2006, 119, 150-158.	7.8	4