

Yuekuan Zhou

List of Publications by Year in descending order

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53
papers

1,997
citations

185998

28
h-index

253896

43
g-index

53
all docs

53
docs citations

53
times ranked

853
citing authors

#	ARTICLE	IF	CITATIONS
1	A state-of-the-art review on shallow geothermal ventilation systems with thermal performance enhancement system classifications, advanced technologies and applications. <i>Energy and Built Environment</i> , 2023, 4, 148-168.	2.9	27
2	The main utilization forms and current developmental status of geothermal energy for building cooling/heating in developing countries. , 2022, , 159-190.		1
3	Advanced renewable dispatch with machine learning-based hybrid demand-side controller: The state of the art and a novel approach. , 2022, , 237-256.		0
4	A machine learning-based design approach on PCMs-PV systems with multilevel scenario uncertainty. , 2022, , 257-272.		1
5	Transition towards carbon-neutral districts based on storage techniques and spatiotemporal energy sharing with electrification and hydrogenation. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 162, 112444.	8.2	61
6	Energy sharing and trading on a novel spatiotemporal energy network in Guangdong-Hong Kong-Macao Greater Bay Area. <i>Applied Energy</i> , 2022, 318, 119131.	5.1	44
7	Net-zero energy management and optimization of commercial building sectors with hybrid renewable energy systems integrated with energy storage of pumped hydro and hydrogen taxis. <i>Applied Energy</i> , 2022, 321, 119312.	5.1	46
8	Policies, applications, barriers and future trends of building information modeling technology for building sustainability and informatization in China. <i>Energy Reports</i> , 2022, 8, 7107-7126.	2.5	28
9	Uncertainty energy planning of net-zero energy communities with peer-to-peer energy trading and green vehicle storage considering climate changes by 2050 with machine learning methods. <i>Applied Energy</i> , 2022, 321, 119394.	5.1	28
10	Low-carbon transition in smart city with sustainable airport energy ecosystems and hydrogen-based renewable-grid-storage-flexibility. , 2022, 1, 100001.		53
11	Artificial intelligence in renewable systems for transformation towards intelligent buildings. <i>Energy and AI</i> , 2022, 10, 100182.	5.8	27
12	A regression learner-based approach for battery cycling ageing prediction—advances in energy management strategy and techno-economic analysis. <i>Energy</i> , 2022, 256, 124668.	4.5	18
13	Dynamic performance of a novel air-soil heat exchanger coupling with diversified energy storage components—modelling development, experimental verification, parametrical design and robust operation. <i>Renewable Energy</i> , 2021, 167, 542-557.	4.3	31
14	Influence of novel PCM-based strategies on building cooling performance. , 2021, , 329-353.		4
15	An energy paradigm transition framework from negative towards positive district energy sharing networks—Battery cycling aging, advanced battery management strategies, flexible vehicles-to-buildings interactions, uncertainty and sensitivity analysis. <i>Applied Energy</i> , 2021, 288, 116606.	5.1	60
16	Multivariant optimization and sensitivity analysis of an experimental vertical earth-to-air heat exchanger system integrating phase change material with Taguchi method. <i>Renewable Energy</i> , 2021, 173, 401-414.	4.3	42
17	Peer-to-peer energy trading of net-zero energy communities with renewable energy systems integrating hydrogen vehicle storage. <i>Applied Energy</i> , 2021, 298, 117206.	5.1	58
18	Peer-to-peer trading optimizations on net-zero energy communities with energy storage of hydrogen and battery vehicles. <i>Applied Energy</i> , 2021, 302, 117578.	5.1	61

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19	Quantification on fuel cell degradation and techno-economic analysis of a hydrogen-based grid-interactive residential energy sharing network with fuel-cell-powered vehicles. <i>Applied Energy</i> , 2021, 303, 117444.	5.1	45
20	Transformation towards a carbon-neutral residential community with hydrogen economy and advanced energy management strategies. <i>Energy Conversion and Management</i> , 2021, 249, 114834.	4.4	61
21	Artificial neural network-based smart aerogel glazing in low-energy buildings: A state-of-the-art review. <i>IScience</i> , 2021, 24, 103420.	1.9	17
22	Uncertainty study on thermal and energy performances of a deterministic parameters based optimal aerogel glazing system using machine-learning method. <i>Energy</i> , 2020, 193, 116718.	4.5	16
23	Machine learning-based multi-objective optimisation of an aerogel glazing system using NSGA-II study of modelling and application in the subtropical climate Hong Kong. <i>Journal of Cleaner Production</i> , 2020, 253, 119964.	4.6	17
24	Machine-learning based study on the on-site renewable electrical performance of an optimal hybrid PCMs integrated renewable system with high-level parameters' uncertainties. <i>Renewable Energy</i> , 2020, 151, 403-418.	4.3	55
25	Energy-based optimisation of a phase change materials integrated hybrid renewable system for active cooling applications using supervised machine learning method. <i>Solar Energy</i> , 2020, 195, 514-526.	2.9	44
26	Thermal management of the waste energy of a stand-alone hybrid PV-wind-battery power system in Hong Kong. <i>Energy Conversion and Management</i> , 2020, 203, 112261.	4.4	26
27	Machine learning-based optimal design of a phase change material integrated renewable system with on-site PV, radiative cooling and hybrid ventilations' study of modelling and application in five climatic regions. <i>Energy</i> , 2020, 192, 116608.	4.5	52
28	Climate adaptive optimal design of an aerogel glazing system with the integration of a heuristic teaching-learning-based algorithm in machine learning-based optimization. <i>Renewable Energy</i> , 2020, 153, 375-391.	4.3	23
29	Multi-level uncertainty optimisation on phase change materials integrated renewable systems with hybrid ventilations and active cooling. <i>Energy</i> , 2020, 202, 117747.	4.5	28
30	A novel optimal configuration model for a zero-carbon multi-energy system (ZC-MES) integrated with financial constraints. <i>Sustainable Energy, Grids and Networks</i> , 2020, 23, 100381.	2.3	14
31	Coordinated multi-criteria framework for cycling aging-based battery storage management strategies for positive building-vehicle system with renewable depreciation: Life-cycle based techno-economic feasibility study. <i>Energy Conversion and Management</i> , 2020, 226, 113473.	4.4	51
32	Study on a Dynamic Numerical Model of an Underground Air Tunnel System for Cooling Applications' Experimental Validation and Multidimensional Parametrical Analysis. <i>Energies</i> , 2020, 13, 1236.	1.6	12
33	Heuristic battery-protective strategy for energy management of an interactive renewables' buildings-vehicles energy sharing network with high energy flexibility. <i>Energy Conversion and Management</i> , 2020, 214, 112891.	4.4	46
34	Stochastic uncertainty-based optimisation on an aerogel glazing building in China using supervised learning surrogate model and a heuristic optimisation algorithm. <i>Renewable Energy</i> , 2020, 155, 810-826.	4.3	14
35	Multi-objective optimisation of an interactive buildings-vehicles energy sharing network with high energy flexibility using the Pareto archive NSGA-II algorithm. <i>Energy Conversion and Management</i> , 2020, 218, 113017.	4.4	60
36	Passive and active phase change materials integrated building energy systems with advanced machine-learning based climate-adaptive designs, intelligent operations, uncertainty-based analysis and optimisations: A state-of-the-art review. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 130, 109889.	8.2	100

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37	A review on cooling performance enhancement for phase change materials integrated systemsâ€™ flexible design and smart control with machine learning applications. <i>Building and Environment</i> , 2020, 174, 106786.	3.0	45
38	Quantification of energy flexibility of residential net-zero-energy buildings involved with dynamic operations of hybrid energy storages and diversified energy conversion strategies. <i>Sustainable Energy, Grids and Networks</i> , 2020, 21, 100304.	2.3	27
39	Machine-learning based hybrid demand-side controller for high-rise office buildings with high energy flexibilities. <i>Applied Energy</i> , 2020, 262, 114416.	5.1	76
40	A state-of-the-art-review on phase change materials integrated cooling systems for deterministic parametrical analysis, stochastic uncertainty-based design, single and multi-objective optimisations with machine learning applications. <i>Energy and Buildings</i> , 2020, 220, 110013.	3.1	38
41	Numerical Study on the Thermal and Optical Performances of an Aerogel Glazing System with the Multivariable Optimization Using an Advanced Machine Learning Algorithm. <i>Advanced Theory and Simulations</i> , 2019, 2, 1900092.	1.3	6
42	Artificial neural network based multivariable optimization of a hybrid system integrated with phase change materials, active cooling and hybrid ventilations. <i>Energy Conversion and Management</i> , 2019, 197, 111859.	4.4	46
43	Multivariable optimisation of a new PCMs integrated hybrid renewable system with active cooling and hybrid ventilations. <i>Journal of Building Engineering</i> , 2019, 26, 100845.	1.6	21
44	Energy flexibility investigation of advanced grid-responsive energy control strategies with the static battery and electric vehicles: A case study of a high-rise office building in Hong Kong. <i>Energy Conversion and Management</i> , 2019, 199, 111888.	4.4	75
45	Energy integration and interaction between buildings and vehicles: A state-of-the-art review. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 114, 109337.	8.2	85
46	Investigation of the flexibility of a residential net-zero energy building (NZEB) integrated with an electric vehicle in Hong Kong. <i>Energy Procedia</i> , 2019, 158, 2567-2579.	1.8	15
47	Study on the energy performance enhancement of a new PCMs integrated hybrid system with the active cooling and hybrid ventilations. <i>Energy</i> , 2019, 179, 111-128.	4.5	55
48	Optimization of a New Phase Change Material Integrated Photovoltaic/Thermal Panel with The Active Cooling Technique Using Taguchi Method. <i>Energies</i> , 2019, 12, 1022.	1.6	28
49	The year-round thermal performance of a new ventilated Trombe wall integrated with phase change materials in the hot summer and cold winter region of China. <i>Indoor and Built Environment</i> , 2019, 28, 195-216.	1.5	46
50	Numerical study on cooling performance of a ventilated Trombe wall with phase change materials. <i>Building Simulation</i> , 2018, 11, 677-694.	3.0	30
51	Study on heat-transfer mechanism of wallboards containing active phase change material and parameter optimization with ventilation. <i>Applied Thermal Engineering</i> , 2018, 144, 1091-1108.	3.0	66
52	Performance of buildings integrated with a photovoltaicâ€™thermal collector and phase change materials. <i>Procedia Engineering</i> , 2017, 205, 1337-1343.	1.2	31
53	Thermal performance and optimized thickness of active shape-stabilized PCM boards for side-wall cooling and under-floor heating system. <i>Indoor and Built Environment</i> , 2016, 25, 1279-1295.	1.5	36