

Yupeng Wu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90 papers	1,892 citations	24 h-index	41 g-index
93 ext. papers	2,567 ext. citations	6 avg, IF	5.71 L-index

#	Paper	IF	Citations
90	Development of cost-effective PCM-carbon foam composites for thermal energy storage. <i>Energy Reports</i> , 2022 , 8, 1696-1703	4.6	4
89	Ternary composite phase change materials (PCMs) towards low phase separation and supercooling: eutectic behaviors and application. <i>Energy Reports</i> , 2022 , 8, 2646-2655	4.6	0
88	Switching daylight: Performance prediction of climate adaptive ETFE foil façades. <i>Building and Environment</i> , 2022 , 209, 108650	6.5	1
87	Comprehensive analysis of electrical-optical performance and application potential for 3D concentrating photovoltaic window. <i>Renewable Energy</i> , 2022 , 189, 369-382	8.1	1
86	Development of MgSO ₄ /mesoporous silica composites for thermochemical energy storage: the role of porous structure on water adsorption. <i>Energy Reports</i> , 2022 , 8, 4913-4921	4.6	1
85	Numerical evaluation of an optically switchable photovoltaic glazing system for passive daylighting control and energy-efficient building design. <i>Building and Environment</i> , 2022 , 219, 109170	6.5	0
84	Deep learning and computer vision based occupancy CO ₂ level prediction for demand-controlled ventilation (DCV). <i>Journal of Building Engineering</i> , 2022 , 104715	5.2	1
83	A coupled deep learning-based internal heat gains detection and prediction method for energy-efficient office building operation. <i>Journal of Building Engineering</i> , 2021 , 103778	5.2	2
82	The effect of thermochromic windows on visual performance and sustained attention. <i>Energy and Buildings</i> , 2021 , 236, 110778	7	6
81	Monte-Carlo optical model coupled with Inverse Adding-Doubling for Building Integrated Photovoltaic smart window design and characterisation. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 223, 110972	6.4	8
80	Design, development and characterisation of a Building Integrated Concentrating Photovoltaic (BICPV) smart window system. <i>Solar Energy</i> , 2021 , 220, 722-734	6.8	12
79	Virtual reality as a tool for evaluating user acceptance of view clarity through ETFE double-skin façades. <i>Energy and Buildings</i> , 2021 , 231, 110554	7	4
78	A state-of-the-art review of the application of phase change materials (PCM) in Mobilized-Thermal Energy Storage (M-TES) for recovering low-temperature industrial waste heat (IWH) for distributed heat supply. <i>Renewable Energy</i> , 2021 , 168, 1040-1057	8.1	29
77	Smart windows Transmittance tuned thermochromic coatings for dynamic control of building performance. <i>Energy and Buildings</i> , 2021 , 235, 110717	7	14
76	The impact of deep learningBased equipment usage detection on building energy demand estimation. <i>Building Services Engineering Research and Technology</i> , 2021 , 42, 545-557	2.3	1
75	Energy and daylight performance of a smart window: Window integrated with thermotropic parallel slat-transparent insulation material. <i>Applied Energy</i> , 2021 , 293, 116826	10.7	9
74	Energy-Saving Smart Windows with HPC/PAA Hybrid Hydrogels as Thermochromic Materials. <i>ACS Applied Energy Materials</i> , 2021 , 4, 9783-9791	6.1	9

73	Numerical investigation of a smart window system with thermotropic Parallel Slat Transparent Insulation Material for building energy conservation and daylight autonomy. <i>Building and Environment</i> , 2021 , 203, 108048	6.5	6
72	Sustainability and structural resilience of building integrated photovoltaics subjected to typhoon strength winds. <i>Applied Energy</i> , 2021 , 301, 117437	10.7	1
71	Experimental characterisation of a smart glazing with tuneable transparency, light scattering ability and electricity generation function. <i>Applied Energy</i> , 2021 , 303, 117521	10.7	2
70	A fluid-structure interaction modelling of roof mounted renewable energy installations in low rise buildings for extreme weather and typhoon resilience. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 463, 012175	0.3	
69	Evaluating the impact of viewing location on view perception using a virtual environment. <i>Building and Environment</i> , 2020 , 180, 106932	6.5	15
68	A fluid-structure interaction (FSI) and energy generation modelling for roof mounted renewable energy installations in buildings for extreme weather and typhoon resilience. <i>Renewable Energy</i> , 2020 , 160, 770-787	8.1	4
67	Transparent Wood Composites Fabricated by Impregnation of Epoxy Resin and W-Doped VO Nanoparticles for Application in Energy-Saving Windows. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 34777-34783	9.5	23
66	Toward a Sustainable Decentralized Water Supply: Review of Adsorption Desorption Desalination (ADD) and Current Technologies: Saudi Arabia (SA) as a Case Study. <i>Water (Switzerland)</i> , 2020 , 12, 1111	3	13
65	Vision-based detection and prediction of equipment heat gains in commercial office buildings using a deep learning method. <i>Applied Energy</i> , 2020 , 277, 115506	10.7	25
64	Analysis of the daylight performance of window integrated photovoltaics systems. <i>Renewable Energy</i> , 2020 , 145, 153-163	8.1	23
63	Comprehensive evaluation of window-integrated semi-transparent PV for building daylight performance. <i>Renewable Energy</i> , 2020 , 145, 1399-1411	8.1	35
62	Mechanical analysis of photovoltaic panels with various boundary condition. <i>Renewable Energy</i> , 2020 , 145, 242-260	8.1	6
61	Evaluation of the colour properties of CdTe PV windows. <i>Energy Procedia</i> , 2019 , 158, 3088-3093	2.3	4
60	Cooperative Performance of Potentially Developed Thermochromic Glazing under Different Climates. <i>Energy Procedia</i> , 2019 , 158, 3094-3100	2.3	2
59	Numerical investigations on the thermal performance of adaptive ETFE foil cushions. <i>Energy Procedia</i> , 2019 , 158, 3191-3195	2.3	2
58	Development of a multi-criteria decision making approach for sustainable seawater desalination technologies of medium and large-scale plants: a case study for Saudi Arabia's vision 2030. <i>Energy Procedia</i> , 2019 , 158, 4274-4279	2.3	4
57	Integrated CdTe PV glazing into windows: energy and daylight performance for different window-to-wall ratio. <i>Energy Procedia</i> , 2019 , 158, 3014-3019	2.3	7
56	Thermochromic smart window technologies for building application: A review. <i>Applied Energy</i> , 2019 , 255, 113522	10.7	105

55	Optimal design of photovoltaic shading systems for multi-story buildings. <i>Journal of Cleaner Production</i> , 2019 , 220, 1024-1038	10.3	18
54	Building information modelling based building energy modelling: A review. <i>Applied Energy</i> , 2019 , 238, 320-343	10.7	105
53	An exploration of the combined effects of NIR and VIS spectrally selective thermochromic materials on building performance. <i>Energy and Buildings</i> , 2019 , 201, 149-162	7	14
52	Design and optical characterisation of an efficient light trapping structure for dye-sensitized solar cell integrated windows. <i>Building Simulation</i> , 2019 , 12, 41-49	3.9	5
51	Developing an Innovative Method for Visual Perception Evaluation in a Physical-Based Virtual Environment. <i>Building and Environment</i> , 2019 , 162, 106278	6.5	30
50	An experimental analysis of the optical, thermal and power to weight performance of plastic and glass optics with AR coatings for embedded CPV windows. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 200, 110027	6.4	4
49	Study on Lighting -Heating-Electricity Coupled Energy Saving Potential for STPV Window in Southwest China. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 556, 012008	0.4	1
48	A novel Fluid-Structure Interaction modelling and optimisation of roofing designs of buildings for typhoon resilience. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 556, 012057	0.4	0
47	The Assembly of Embedded Systems for Integrated Photovoltaic windows in Rural Buildings (E-IPB). <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 556, 012040	0.4	
46	BIM-based real time building energy simulation and optimization in early design stage. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 556, 012064	0.4	1
45	Numerical study of a thermal storage tank enclosed PCM capsules. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 556, 012013	0.4	
44	Investigation of Mg-Y coated gasochromic smart windows for building applications. <i>Building Simulation</i> , 2019 , 12, 99-112	3.9	9
43	Development of experimental methods for quantifying the human response to chromatic glazing. <i>Building and Environment</i> , 2019 , 147, 199-210	6.5	9
42	Design and development of a Building Façade Integrated Asymmetric Compound Parabolic Photovoltaic concentrator (BFI-ACP-PV). <i>Applied Energy</i> , 2018 , 220, 325-336	10.7	26
41	A review of thermal and optical characterisation of complex window systems and their building performance prediction. <i>Applied Energy</i> , 2018 , 222, 729-747	10.7	45
40	Scanning photocurrent microscopy of 3D printed light trapping structures in dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 180, 103-109	6.4	16
39	A review of the applications of phase change materials in cooling, heating and power generation in different temperature ranges. <i>Applied Energy</i> , 2018 , 220, 242-273	10.7	270
38	Glazing systems with Parallel Slats Transparent Insulation Material (PS-TIM): Evaluation of building energy and daylight performance. <i>Energy and Buildings</i> , 2018 , 159, 213-227	7	18

37	Evaluation of the thermal and optical performance of thermochromic windows for office buildings in China. <i>Energy and Buildings</i> , 2018 , 176, 216-231	7	41
36	Optical aspects and energy performance of switchable ethylene-tetrafluoroethylene (ETFE) foil cushions. <i>Applied Energy</i> , 2018 , 229, 335-351	10.7	21
35	A Review of Transparent Insulation Material (TIM) for building energy saving and daylight comfort. <i>Applied Energy</i> , 2018 , 226, 713-729	10.7	44
34	Study on the Energy Saving Potential for Semi-Transparent PV Window in Southwest China. <i>Energies</i> , 2018 , 11, 3239	3.1	7
33	Integrated semi-transparent cadmium telluride photovoltaic glazing into windows: Energy and daylight performance for different architecture designs. <i>Applied Energy</i> , 2018 , 231, 972-984	10.7	48
32	Experimental Assessment of the Energy Performance of a Double-Skin Semi-Transparent PV Window in the Hot-Summer and Cold-Winter Zone of China. <i>Energies</i> , 2018 , 11, 1700	3.1	8
31	Investigation on designed fins-enhanced phase change materials system for thermal management of a novel building integrated concentrating PV. <i>Applied Energy</i> , 2018 , 225, 696-709	10.7	36
30	Smart windowsDynamic control of building energy performance. <i>Energy and Buildings</i> , 2017 , 139, 535-546	46	74
29	Analysis of the daylight performance of a glazing system with Parallel Slat Transparent Insulation Material (PS-TIM). <i>Energy and Buildings</i> , 2017 , 139, 616-633	7	28
28	A review of thermal absorbers and their integration methods for the combined solar photovoltaic/thermal (PV/T) modules. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 75, 839-854	16.2	69
27	Analytical solutions of force convective heat transfer in plate heat exchangers partially filled with metal foams. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 110, 476-481	4.9	15
26	Dynamic environmental control mechanisms for pneumatic foil constructions. <i>E3S Web of Conferences</i> , 2017 , 22, 00048	0.5	3
25	Development of a comprehensive method to analyse glazing systems with Parallel Slat Transparent Insulation material (PS-TIM). <i>Applied Energy</i> , 2017 , 205, 951-963	10.7	27
24	Assessment of the Effectiveness of Investment Strategy in Solar Photovoltaic (PV) Energy Sector: A Case Study. <i>Energy Procedia</i> , 2017 , 105, 2977-2982	2.3	1
23	Design Strategy of a Compact Unglazed Solar Thermal Facade (STF) for Building Integration Based on BIM Concept. <i>Energy Procedia</i> , 2017 , 105, 1-6	2.3	5
22	Experimental investigation of evacuated heat pipe solar collector efficiency using phase-change fluid. <i>International Journal of Low-Carbon Technologies</i> , 2017 , 12, 392-399	2.8	4
21	Investigation of the Optical Performance of a Novel Planar Static PV Concentrator with Lambertian Rear Reflectors. <i>Buildings</i> , 2017 , 7, 88	3.2	6
20	Transmittance and Reflectance Studies of Thermotropic Material for a Novel Building Integrated Concentrating Photovoltaic (BICPV) Smart WindowSystem. <i>Energies</i> , 2017 , 10, 1889	3.1	18

19	Thermal and Optical Analysis of a Passive Heat Recovery and Storage System for Greenhouse Skin. <i>Procedia Engineering</i> , 2016 , 155, 472-478		7
18	Carbon Nanodots for Sensor Applications 2016 , 69-102		
17	Thermal evaluation of a double glazing façade system with integrated Parallel Slat Transparent Insulation Material (PS-TIM). <i>Building and Environment</i> , 2016 , 105, 69-81	6.5	17
16	Characteristic study of a novel compact Solar Thermal Facade (STF) with internally extruded pin fin flow channel for building integration. <i>Applied Energy</i> , 2016 , 168, 48-64	10.7	19
15	Conceptual Development of a Compact Unglazed Solar Thermal Facade (STF) for Building Integration. <i>Energy Procedia</i> , 2016 , 96, 42-54	2.3	2
14	The Early Design Stage of a Novel Solar Thermal Façade (STF) for Building Integration: Energy Performance Simulation and Socio-Economic Analysis. <i>Energy Procedia</i> , 2016 , 96, 55-66	2.3	3
13	Experimental Study of a Compact Unglazed Solar Thermal Facade (STF) for Energy-efficient Buildings. <i>Energy Procedia</i> , 2016 , 104, 3-8	2.3	1
12	Optimizing the Configuration of a Compact Thermal Facade Module for Solar Renovation Concept in Buildings. <i>Energy Procedia</i> , 2016 , 104, 9-14	2.3	2
11	Experimental measurement and numerical simulation of the thermal performance of a double glazing system with an interstitial Venetian blind. <i>Building and Environment</i> , 2016 , 103, 111-122	6.5	22
10	Crystallized TiO ₂ (A)/VO ₂ (M/R) nanocomposite films with electrochromism/thermochromism dual-response properties. <i>RSC Advances</i> , 2016 , 6, 32176-32182	3.7	11
9	Smart solar concentrators for building integrated photovoltaic façades. <i>Solar Energy</i> , 2016 , 133, 111-118	6.8	37
8	Effect of air voids content on thermal properties of asphalt mixtures. <i>Construction and Building Materials</i> , 2016 , 115, 327-335	6.7	63
7	Design and development of a reflective membrane for a novel Building Integrated Concentrating Photovoltaic (BICPV) Smart Window System. <i>Applied Energy</i> , 2016 , 182, 331-339	10.7	43
6	Smart windows: Thermal modelling and evaluation. <i>Solar Energy</i> , 2014 , 103, 200-209	6.8	26
5	Interactions between the physical soil environment and a horizontal ground coupled heat pump, for a domestic site in the UK. <i>Renewable Energy</i> , 2012 , 44, 141-153	8.1	47
4	Experimental characterisation of a Fresnel lens photovoltaic concentrating system. <i>Solar Energy</i> , 2012 , 86, 430-440	6.8	43
3	Prediction of the thermal performance of horizontal-coupled ground-source heat exchangers. <i>International Journal of Low-Carbon Technologies</i> , 2011 , 6, 261-269	2.8	23
2	Experimental measurement and numerical simulation of horizontal-coupled slinky ground source heat exchangers. <i>Applied Thermal Engineering</i> , 2010 , 30, 2574-2583	5.8	120

1	Intelligent windows for electricity generation: A technologies review. <i>Building Simulation</i> ,1	3.9	1
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