

Patrick Chen

List of Publications by Year in descending order

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40
papers

2,001
citations

236925

25
h-index

302126

39
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docs citations

40
times ranked

1556
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive review on passive design approaches in green building rating tools. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 50, 1425-1436.	16.4	201
2	Overview on hybrid solar photovoltaic-electrical energy storage technologies for power supply to buildings. <i>Energy Conversion and Management</i> , 2019, 187, 103-121.	9.2	168
3	Long term operation of a solar assisted ground coupled heat pump system for space heating and domestic hot water. <i>Energy and Buildings</i> , 2011, 43, 1835-1844.	6.7	111
4	Experimental studies on a ground coupled heat pump with solar thermal collectors for space heating. <i>Energy</i> , 2011, 36, 5292-5300.	8.8	90
5	Hybrid renewable energy applications in zero-energy buildings and communities integrating battery and hydrogen vehicle storage. <i>Applied Energy</i> , 2021, 290, 116733.	10.1	88
6	A review and outlook for integrated BIM application in green building assessment. <i>Sustainable Cities and Society</i> , 2019, 48, 101576.	10.4	86
7	Techno-economic design optimization of hybrid renewable energy applications for high-rise residential buildings. <i>Energy Conversion and Management</i> , 2020, 213, 112868.	9.2	86
8	Performance analysis of a proposed solar assisted ground coupled heat pump system. <i>Applied Energy</i> , 2012, 97, 888-896.	10.1	85
9	Energy storage and management system design optimization for a photovoltaic integrated low-energy building. <i>Energy</i> , 2020, 190, 116424.	8.8	80
10	A multi-stage optimization of passively designed high-rise residential buildings in multiple building operation scenarios. <i>Applied Energy</i> , 2017, 206, 541-557.	10.1	78
11	Simulation-based approach to optimize passively designed buildings: A case study on a typical architectural form in hot and humid climates. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 1712-1725.	16.4	72
12	A holistic passive design approach to optimize indoor environmental quality of a typical residential building in Hong Kong. <i>Energy</i> , 2016, 113, 267-281.	8.8	71
13	Developing a meta-model for sensitivity analyses and prediction of building performance for passively designed high-rise residential buildings. <i>Applied Energy</i> , 2017, 194, 422-439.	10.1	68
14	Integrated energy performance optimization of a passively designed high-rise residential building in different climatic zones of China. <i>Applied Energy</i> , 2018, 215, 145-158.	10.1	64
15	Energy planning of renewable applications in high-rise residential buildings integrating battery and hydrogen vehicle storage. <i>Applied Energy</i> , 2021, 281, 116038.	10.1	58
16	Energy optimization of high-rise commercial buildings integrated with photovoltaic facades in urban context. <i>Energy</i> , 2019, 172, 1-17.	8.8	57
17	Parametric study of passive design strategies for high-rise residential buildings in hot and humid climates: miscellaneous impact factors. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 69, 442-460.	16.4	50
18	An integrated life cycle assessment of different facade systems for a typical residential building in Ghana. <i>Sustainable Cities and Society</i> , 2020, 53, 101974.	10.4	50

#	ARTICLE	IF	CITATIONS
19	Numerical investigation of a novel vacuum photovoltaic curtain wall and integrated optimization of photovoltaic envelope systems. <i>Applied Energy</i> , 2018, 229, 1048-1060.	10.1	46
20	Approaching low-energy high-rise building by integrating passive architectural design with photovoltaic application. <i>Journal of Cleaner Production</i> , 2019, 220, 313-330.	9.3	40
21	A comprehensive sensitivity study of major passive design parameters for the public rental housing development in Hong Kong. <i>Energy</i> , 2015, 93, 1804-1818.	8.8	38
22	Combined thermal and daylight analysis of a typical public rental housing development to fulfil green building guidance in Hong Kong. <i>Energy and Buildings</i> , 2015, 108, 420-432.	6.7	37
23	Developing an automated BIM-based life cycle assessment approach for modularly designed high-rise buildings. <i>Environmental Impact Assessment Review</i> , 2021, 90, 106618.	9.2	37
24	Interaction between Thermal Comfort, Indoor Air Quality and Ventilation Energy Consumption of Educational Buildings: A Comprehensive Review. <i>Buildings</i> , 2021, 11, 591.	3.1	36
25	Performance Evaluation of Vacuum Photovoltaic Insulated Glass Unit. <i>Energy Procedia</i> , 2017, 105, 322-326.	1.8	30
26	Testing and modelling an unglazed photovoltaic thermal collector for application in Sichuan Basin. <i>Applied Energy</i> , 2019, 242, 931-941.	10.1	27
27	Research progress on utilization of phase change materials in photovoltaic/thermal systems: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111313.	16.4	27
28	Modelling analyses of the thermal property and heat transfer performance of a novel composite PV vacuum glazing. <i>Renewable Energy</i> , 2021, 163, 1238-1252.	8.9	26
29	Developing a robust assessment system for the passive design approach in the green building rating scheme of Hong Kong. <i>Journal of Cleaner Production</i> , 2017, 153, 176-194.	9.3	24
30	Developing a tier-hybrid uncertainty analysis approach for lifecycle impact assessment of a typical high-rise residential building. <i>Resources, Conservation and Recycling</i> , 2021, 167, 105424.	10.8	15
31	Sensitivity analysis and optimization of a typical passively designed residential building with hybrid ventilation in hot and humid climates. <i>Energy Procedia</i> , 2017, 142, 1781-1786.	1.8	11
32	Multi-criterion optimization of integrated photovoltaic facade with inter-building effects in diverse neighborhood densities. <i>Journal of Cleaner Production</i> , 2020, 248, 119269.	9.3	10
33	A Proposed New Weighting System for Passive Design Approach in BEAM Plus. <i>Energy Procedia</i> , 2017, 105, 2113-2118.	1.8	9
34	Experimental investigation and annual overall performance comparison of different photovoltaic vacuum glazings. <i>Sustainable Cities and Society</i> , 2021, 75, 103282.	10.4	7
35	Two-Stage Lifecycle Energy Optimization of Mid-Rise Residential Buildings with Building-Integrated Photovoltaic and Alternative Composite Façade Materials. <i>Buildings</i> , 2021, 11, 642.	3.1	6
36	An Exhaustive Parametric Study on Major Passive Design Strategies of a Typical High-rise Residential Building in Hong Kong. <i>Energy Procedia</i> , 2016, 88, 748-753.	1.8	5

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37	Exploring the optimization potential of thermal and power performance for a low-energy high-rise building. Energy Procedia, 2019, 158, 2469-2474.	1.8	5
38	Performance Study on an Unglazed Photovoltaic Thermal Collector Running in Sichuan Basin. Energy Procedia, 2019, 158, 1249-1254.	1.8	1
39	Innovative Solutions for Energy Transitions: Proceedings of the 10th International Conference on Applied Energy (ICAE2018). Energy Procedia, 2019, 158, 1-2.	1.8	1
40	A Multi-criterion Optimization for Passive Building Integrated with Vacuum Photovoltaic Insulated Glass Unit. Environmental Science and Engineering, 2020, , 857-863.	0.2	0