

Patrick Chen

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

2,001
citations

270111

25
h-index

340414

39
g-index

40
all docs

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docs citations

40
times ranked

1796
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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. | 4.3 | 26 |
| 2 | Energy planning of renewable applications in high-rise residential buildings integrating battery and hydrogen vehicle storage. <i>Applied Energy</i> , 2021, 281, 116038. | 5.1 | 58 |
| 3 | 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. | 5.3 | 15 |
| 4 | Hybrid renewable energy applications in zero-energy buildings and communities integrating battery and hydrogen vehicle storage. <i>Applied Energy</i> , 2021, 290, 116733. | 5.1 | 88 |
| 5 | Developing an automated BIM-based life cycle assessment approach for modularly designed high-rise buildings. <i>Environmental Impact Assessment Review</i> , 2021, 90, 106618. | 4.4 | 37 |
| 6 | 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. | 8.2 | 27 |
| 7 | Experimental investigation and annual overall performance comparison of different photovoltaic vacuum glazings. <i>Sustainable Cities and Society</i> , 2021, 75, 103282. | 5.1 | 7 |
| 8 | Interaction between Thermal Comfort, Indoor Air Quality and Ventilation Energy Consumption of Educational Buildings: A Comprehensive Review. <i>Buildings</i> , 2021, 11, 591. | 1.4 | 36 |
| 9 | 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. | 1.4 | 6 |
| 10 | Energy storage and management system design optimization for a photovoltaic integrated low-energy building. <i>Energy</i> , 2020, 190, 116424. | 4.5 | 80 |
| 11 | An integrated life cycle assessment of different façade systems for a typical residential building in Ghana. <i>Sustainable Cities and Society</i> , 2020, 53, 101974. | 5.1 | 50 |
| 12 | Multi-criterion optimization of integrated photovoltaic facade with inter-building effects in diverse neighborhood densities. <i>Journal of Cleaner Production</i> , 2020, 248, 119269. | 4.6 | 10 |
| 13 | Techno-economic design optimization of hybrid renewable energy applications for high-rise residential buildings. <i>Energy Conversion and Management</i> , 2020, 213, 112868. | 4.4 | 86 |
| 14 | A Multi-criterion Optimization for Passive Building Integrated with Vacuum Photovoltaic Insulated Glass Unit. <i>Environmental Science and Engineering</i> , 2020, , 857-863. | 0.1 | 0 |
| 15 | Exploring the optimization potential of thermal and power performance for a low-energy high-rise building. <i>Energy Procedia</i> , 2019, 158, 2469-2474. | 1.8 | 5 |
| 16 | Performance Study on an Unglazed Photovoltaic Thermal Collector Running in Sichuan Basin. <i>Energy Procedia</i> , 2019, 158, 1249-1254. | 1.8 | 1 |
| 17 | Energy optimization of high-rise commercial buildings integrated with photovoltaic facades in urban context. <i>Energy</i> , 2019, 172, 1-17. | 4.5 | 57 |
| 18 | A review and outlook for integrated BIM application in green building assessment. <i>Sustainable Cities and Society</i> , 2019, 48, 101576. | 5.1 | 86 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Innovative Solutions for Energy Transitions: Proceedings of the 10th International Conference on Applied Energy (ICAE2018). Energy Procedia, 2019, 158, 1-2. | 1.8 | 1 |
| 20 | Overview on hybrid solar photovoltaic-electrical energy storage technologies for power supply to buildings. Energy Conversion and Management, 2019, 187, 103-121. | 4.4 | 168 |
| 21 | Testing and modelling an unglazed photovoltaic thermal collector for application in Sichuan Basin. Applied Energy, 2019, 242, 931-941. | 5.1 | 27 |
| 22 | Approaching low-energy high-rise building by integrating passive architectural design with photovoltaic application. Journal of Cleaner Production, 2019, 220, 313-330. | 4.6 | 40 |
| 23 | Integrated energy performance optimization of a passively designed high-rise residential building in different climatic zones of China. Applied Energy, 2018, 215, 145-158. | 5.1 | 64 |
| 24 | Simulation-based approach to optimize passively designed buildings: A case study on a typical architectural form in hot and humid climates. Renewable and Sustainable Energy Reviews, 2018, 82, 1712-1725. | 8.2 | 72 |
| 25 | Numerical investigation of a novel vacuum photovoltaic curtain wall and integrated optimization of photovoltaic envelope systems. Applied Energy, 2018, 229, 1048-1060. | 5.1 | 46 |
| 26 | Parametric study of passive design strategies for high-rise residential buildings in hot and humid climates: miscellaneous impact factors. Renewable and Sustainable Energy Reviews, 2017, 69, 442-460. | 8.2 | 50 |
| 27 | A Proposed New Weighting System for Passive Design Approach in BEAM Plus. Energy Procedia, 2017, 105, 2113-2118. | 1.8 | 9 |
| 28 | Developing a robust assessment system for the passive design approach in the green building rating scheme of Hong Kong. Journal of Cleaner Production, 2017, 153, 176-194. | 4.6 | 24 |
| 29 | A multi-stage optimization of passively designed high-rise residential buildings in multiple building operation scenarios. Applied Energy, 2017, 206, 541-557. | 5.1 | 78 |
| 30 | Performance Evaluation of Vacuum Photovoltaic Insulated Glass Unit. Energy Procedia, 2017, 105, 322-326. | 1.8 | 30 |
| 31 | Developing a meta-model for sensitivity analyses and prediction of building performance for passively designed high-rise residential buildings. Applied Energy, 2017, 194, 422-439. | 5.1 | 68 |
| 32 | Sensitivity analysis and optimization of a typical passively designed residential building with hybrid ventilation in hot and humid climates. Energy Procedia, 2017, 142, 1781-1786. | 1.8 | 11 |
| 33 | A holistic passive design approach to optimize indoor environmental quality of a typical residential building in Hong Kong. Energy, 2016, 113, 267-281. | 4.5 | 71 |
| 34 | An Exhaustive Parametric Study on Major Passive Design Strategies of a Typical High-rise Residential Building in Hong Kong. Energy Procedia, 2016, 88, 748-753. | 1.8 | 5 |
| 35 | A comprehensive sensitivity study of major passive design parameters for the public rental housing development in Hong Kong. Energy, 2015, 93, 1804-1818. | 4.5 | 38 |
| 36 | A comprehensive review on passive design approaches in green building rating tools. Renewable and Sustainable Energy Reviews, 2015, 50, 1425-1436. | 8.2 | 201 |

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|----|---|-----|-----------|
| 37 | 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. | 3.1 | 37 |
| 38 | Performance analysis of a proposed solar assisted ground coupled heat pump system. <i>Applied Energy</i> , 2012, 97, 888-896. | 5.1 | 85 |
| 39 | Experimental studies on a ground coupled heat pump with solar thermal collectors for space heating. <i>Energy</i> , 2011, 36, 5292-5300. | 4.5 | 90 |
| 40 | 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. | 3.1 | 111 |