A finite element model for estimating the techno-econo building-integrated photovoltaic blind

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Citation Report

#	Article	IF	Citations
1	Nonlinearity analysis of the shading effect on the technicalâ€“economic performance of the building-integrated photovoltaic blind. Applied Energy, 2017, 194, 467-480.	5.1	33
2	The economic and social performance of integrated photovoltaic and agricultural greenhouses systems: Case study in China. Applied Energy, 2017, 190, 204-212.	5.1	71
3	Life cycle assessment for three ventilation methods. Building and Environment, 2017, 116, 73-88.	3.0	21
4	Modeling of solar transmission through multilayer glazing facade using shading blinds with arbitrary geometrical and surface optical properties. Energy, 2017, 128, 163-182.	4.5	23
5	An economic impact analysis of residential progressive electricity tariffs in implementing the building-integrated photovoltaic blind using an advanced finite element model. Applied Energy, 2017, 202, 259-274.	5.1	21
6	Advanced Strategies for Net-Zero Energy Building: Focused on the Early Phase and Usage Phase of a Buildingâ€™s Life Cycle. Sustainability, 2017, 9, 2272.	1.6	29
7	A Prototype Design and Development of the Smart Photovoltaic System Blind Considering the Photovoltaic Panel, Tracking System, and Monitoring System. Applied Sciences (Switzerland), 2017, 7, 1077.	1.3	15
8	Improving the prediction performance of the finite element model for estimating the technical performance of the distributed generation of solar power system in a building faÃ§ade. Applied Energy, 2018, 215, 41-53.	5.1	12
9	Experimental study and performance evaluation of a PV-blind embedded double skin faÃ§ade in winter season. Energy, 2018, 165, 326-342.	4.5	45
10	Photovoltaic integrated shading devices (PVSDs): A review. Solar Energy, 2018, 170, 947-968.	2.9	78
11	A photovoltaic window with sun-tracking shading elements towards maximum power generation and non-glare daylighting. Applied Energy, 2018, 228, 1454-1472.	5.1	34
12	Coupled thermal-electrical-optical analysis of a photovoltaic-blind integrated glazing faÃ§ade. Applied Energy, 2018, 228, 1870-1886.	5.1	29
13	Energy Efficiency in the Building Sector: The Effect of Residential Progressive Electricity Tariffs on the Economic Performance of the Building-Integrated Photovoltaic Blind. Green Energy and Technology, 2018, , 793-808.	0.4	0
14	An integrated model for estimating the techno-economic performance of the distributed solar generation system on building faÃ§ades: Focused on energy demand and supply. Applied Energy, 2018, 228, 1071-1090.	5.1	16
15	Improved thermal-electrical-optical model and performance assessment of a PV-blind embedded glazing faÃ§ade system with complex shading effects. Applied Energy, 2019, 255, 113896.	5.1	15
16	Optimal design of photovoltaic shading systems for multi-story buildings. Journal of Cleaner Production, 2019, 220, 1024-1038.	4.6	33
17	Techno-economic performance analysis of the smart solar photovoltaic blinds considering the photovoltaic panel type and the solar tracking method. Energy and Buildings, 2019, 193, 1-14.	3.1	33
18	Technical performance analysis of the smart solar photovoltaic blinds based on the solar tracking methods considering the climate factors. Energy and Buildings, 2019, 190, 34-48.	3.1	23

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19	Development of a prototype for multi-function smart window by integrating photovoltaic blinds and ventilation system. Building and Environment, 2019, 149, 366-378.	3.0	30
20	A new approach for developing a hybrid sun-tracking method of the intelligent photovoltaic blinds considering the weather condition using data mining technique. Energy and Buildings, 2020, 209, 109708.	3.1	11
21	Assessment the Technical and Economic Performance of a Window-Integrated PV System Using Third-Generation PV Panels. SSRN Electronic Journal, 0, , .	0.4	0
22	The energy performance of building integrated photovoltaics (BIPV) by determination of optimal building envelope. Building and Environment, 2021, 199, 107856.	3.0	20
23	A review on developments and researches of building integrated photovoltaic (BIPV) windows and shading blinds. Renewable and Sustainable Energy Reviews, 2021, 149, 111355.	8.2	80
24	Optimizing daylight, energy and occupant comfort performance of classrooms with photovoltaic integrated vertical shading devices. Architectural Engineering and Design Management, 2023, 19, 394-418.	1.2	11
25	Kinetic Photovoltaic Facade System Based on a Parametric Design for Application in Signal Box Buildings in Switzerland. Applied Sciences (Switzerland), 2023, 13, 4633.	1.3	2
26	Assessment the technical and economic performance of a window-integrated PV system using third-generation PV panels. Energy and Buildings, 2023, 286, 112978.	3.1	6
27	Optimal design method for photovoltaic shading devices (PVSDs) by combining geometric optimization and adaptive control model. Journal of Building Engineering, 2023, 69, 106101.	1.6	6
28	Multi-performative faÃ§ade systems: The case of real-time adaptive BIPV shading systems to enhance energy generation potential and visual comfort. Frontiers in Built Environment, 0, 9, .	1.2	3