

Jean-Louis Scartezzini

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,488
citations

430754

18
h-index

501076

28
g-index

32
all docs

32
docs citations

32
times ranked

1476
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantifying the impacts of climate change and extreme climate events on energy systems. <i>Nature Energy</i> , 2020, 5, 150-159.	19.8	309
2	Passive design optimization of newly-built residential buildings in Shanghai for improving indoor thermal comfort while reducing building energy demand. <i>Energy and Buildings</i> , 2018, 169, 484-506.	3.1	197
3	Effects of urban compactness on solar energy potential. <i>Renewable Energy</i> , 2016, 93, 469-482.	4.3	156
4	A review of assessment methods for the urban environment and its energy sustainability to guarantee climate adaptation of future cities. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 112, 733-746.	8.2	128
5	Climate responsive strategies of traditional dwellings located in an ancient village in hot summer and cold winter region of China. <i>Building and Environment</i> , 2015, 86, 151-165.	3.0	83
6	Quantifying the impact of urban climate by extending the boundaries of urban energy system modeling. <i>Applied Energy</i> , 2018, 222, 847-860.	5.1	82
7	A city-scale roof shape classification using machine learning for solar energy applications. <i>Renewable Energy</i> , 2018, 121, 81-93.	4.3	76
8	Improving the energy sustainability of a Swiss village through building renovation and renewable energy integration. <i>Energy and Buildings</i> , 2018, 158, 906-923.	3.1	58
9	On-site monitoring and subjective comfort assessment of a sun shadings and electric lighting controller based on novel High Dynamic Range vision sensors. <i>Energy and Buildings</i> , 2017, 149, 58-72.	3.1	52
10	A New Framework to Evaluate Urban Design Using Urban Microclimatic Modeling in Future Climatic Conditions. <i>Sustainability</i> , 2018, 10, 1134.	1.6	41
11	Reactively sputtered coatings on architectural glazing for coloured active solar thermal façades. <i>Energy and Buildings</i> , 2014, 68, 764-770.	3.1	36
12	The influence of urban form on the grid integration of renewable energy technologies and distributed energy systems. <i>Scientific Reports</i> , 2019, 9, 17756.	1.6	33
13	Integrating urban form and distributed energy systems: Assessment of sustainable development scenarios for a Swiss village to 2050. <i>Renewable Energy</i> , 2019, 143, 810-826.	4.3	32
14	Sol-gel deposition and optical characterization of multilayered SiO ₂ /TiO ₂ coatings on solar collector glasses. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 2894-2907.	3.0	27
15	Nanocrystalline Low-Refraction Magnesium Fluoride Films Deposited by Reactive Magnetron Sputtering: Optical and Structural Properties. <i>Advanced Engineering Materials</i> , 2015, 17, 1652-1659.	1.6	24
16	Visual discomfort and glare rating assessment of integrated daylighting and electric lighting systems using HDR imaging techniques. <i>Architectural Science Review</i> , 2010, 53, 359-373.	1.1	21
17	Impact of the COVID-19 pandemic on the energy performance of residential neighborhoods and their occupancy behavior. <i>Sustainable Cities and Society</i> , 2022, 82, 103896.	5.1	19
18	Eco-Sim: A Parametric Tool to Evaluate the Environmental and Economic Feasibility of Decentralized Energy Systems. <i>Energies</i> , 2019, 12, 776.	1.6	18

#	ARTICLE	IF	CITATIONS
19	Self-commissioning glare-based control system for integrated venetian blind and electric lighting. Building and Environment, 2020, 171, 106642.	3.0	18
20	Combining computational fluid dynamics and neural networks to characterize microclimate extremes: Learning the complex interactions between meso-climate and urban morphology. Science of the Total Environment, 2022, 829, 154223.	3.9	16
21	Spatio-Temporal Relationship between Land Cover and Land Surface Temperature in Urban Areas: A Case Study in Geneva and Paris. ISPRS International Journal of Geo-Information, 2020, 9, 593.	1.4	13
22	Statistical-thermodynamics modelling of the built environment in relation to urban ecology. Ecological Modelling, 2015, 307, 32-47.	1.2	11
23	Multi-criteria analysis for the integrated performance assessment of complex fenestration systems. Building Research and Information, 2017, 45, 926-942.	2.0	8
24	Integrating Renewable Energy Technologies into Distributed Energy Systems Maintaining System Flexibility. , 2018, , .		6
25	Performance Assessment of a nZEB Carbon Neutral Living/Office Space and Its Integration into a District Energy-Hub. Energies, 2022, 15, 793.	1.6	5
26	Optimized office lighting advances melatonin phase and peripheral heat loss prior bedtime. Scientific Reports, 2022, 12, 4267.	1.6	5
27	Effects of city size on the large-scale decentralised solar energy potential. Energy Procedia, 2017, 122, 697-702.	1.8	4
28	Evaluating the need for energy storage to enhance autonomy of neighborhoods. Energy Procedia, 2017, 122, 253-258.	1.8	4
29	Climate Impact and Energy Sustainability of Future European Neighborhoods. , 2018, , .		3
30	Achieving energy sustainability in future neighborhoods through building refurbishment and energy hub concept: a case study in Hemberg-Switzerland. Energy Procedia, 2017, 122, 265-270.	1.8	2
31	Multi-Stage Integration of Renewable Energy Technologies into Standalone Energy Systems. , 2018, , .		1