

Valentina Serra

List of Publications by Citations

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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.

67
papers

1,408
citations

22
h-index

34
g-index

70
ext. papers

1,623
ext. citations

4.3
avg, IF

5.14
L-index

#	Paper	IF	Citations
67	Improving thermal comfort conditions by means of PCM glazing systems. <i>Energy and Buildings</i> , 2013 , 60, 442-452	7	100
66	Experimental analysis of the energy performance of a full-scale PCM glazing prototype. <i>Solar Energy</i> , 2014 , 100, 217-233	6.8	97
65	Spectral and angular solar properties of a PCM-filled double glazing unit. <i>Energy and Buildings</i> , 2015 , 87, 302-312	7	81
64	Experimental evaluation of a climate façade: Energy efficiency and thermal comfort performance. <i>Energy and Buildings</i> , 2010 , 42, 50-62	7	69
63	Characterization of the optical properties of a PCM glazing system. <i>Energy Procedia</i> , 2012 , 30, 428-437	2.3	53
62	Experimental assessment of the performance of an active transparent façade during actual operating conditions. <i>Solar Energy</i> , 2007 , 81, 993-1013	6.8	51
61	Thermal insulating plaster as a solution for refurbishing historic building envelopes: First experimental results. <i>Energy and Buildings</i> , 2015 , 95, 86-91	7	44
60	A numerical model to evaluate the thermal behaviour of active transparent façades. <i>Energy and Buildings</i> , 2011 , 43, 1123-1138	7	44
59	Experimental Analysis of an Advanced Dynamic Glazing Prototype Integrating PCM and Thermotropic Layers. <i>Energy Procedia</i> , 2014 , 48, 1272-1281	2.3	42
58	Switching from static to adaptable and dynamic building envelopes: A paradigm shift for the energy efficiency in buildings. <i>Journal of Facade Design and Engineering</i> , 2015 , 3, 143-163		41
57	Experimental assessment of the energy performance of an advanced responsive multifunctional façade module. <i>Energy and Buildings</i> , 2014 , 68, 647-659	7	40
56	A novel vertical greenery module system for building envelopes: The results and outcomes of a multidisciplinary research project. <i>Energy and Buildings</i> , 2017 , 146, 333-352	7	35
55	Experimental and numerical analyses on thermal performance of different typologies of PCMs integrated in the roof space. <i>Energy and Buildings</i> , 2017 , 150, 546-557	7	35
54	Thermal behaviour assessment of a novel vertical greenery module system: first results of a long-term monitoring campaign in an outdoor test cell. <i>Energy Efficiency</i> , 2017 , 10, 625-638	3	32
53	Embodied Energy and Operational Energy Assessment in the Framework of Nearly Zero Energy Building and Building Energy Rating. <i>Energy Procedia</i> , 2015 , 78, 3204-3209	2.3	30
52	The cost-optimal methodology for the energy retrofit of an ex-industrial building located in Northern Italy. <i>Energy and Buildings</i> , 2016 , 127, 590-602	7	29
51	Investigating the performance of reflective insulation and low emissivity paints for the energy retrofit of roof attics. <i>Energy and Buildings</i> , 2019 , 182, 300-310	7	28

50	Phase Change Materials in Transparent Building Envelopes: A Strengths, Weakness, Opportunities and Threats (SWOT) Analysis. <i>Energies</i> , 2018 , 11, 111	3.1	27
49	Embodied Energy Versus Operational Energy in a Nearly Zero Energy Building Case Study. <i>Energy Procedia</i> , 2017 , 111, 367-376	2.3	26
48	Thermochromic glazing performance: From component experimental characterisation to whole building performance evaluation. <i>Applied Energy</i> , 2019 , 251, 113335	10.7	24
47	Experimental analysis of the energy performance of an ACTIVE, RESponsive and Solar (ACTRESS) façade module. <i>Solar Energy</i> , 2016 , 133, 226-248	6.8	24
46	Dynamic Insulation Systems: Experimental Analysis on a Parietodynamic Wall. <i>Energy Procedia</i> , 2015 , 78, 549-554	2.3	22
45	Thermal conductivity measurement of insulating innovative building materials by hot plate and heat flow meter devices: A Round Robin Test. <i>International Journal of Thermal Sciences</i> , 2019 , 139, 25-35 ^{4.1}	4.1	21
44	Hygrothermal and environmental performance of a perlite-based insulating plaster for the energy retrofit of buildings. <i>Energy and Buildings</i> , 2018 , 179, 26-38	7	20
43	Calculation procedure of the shading factor under complex boundary conditions. <i>Solar Energy</i> , 2011 , 85, 2524-2539	6.8	20
42	Towards an Active, Responsive, and Solar Building Envelope. <i>Journal of Green Building</i> , 2010 , 5, 121-136	1.3	19
41	Thermal Performance Assessment of an Opaque Ventilated Façade in the Summer Period: Calibration of a Simulation Model through in-field Measurements. <i>Energy Procedia</i> , 2017 , 111, 619-628	2.3	17
40	Insulating coat to prevent mold growth in thermal bridges. <i>Energy Procedia</i> , 2017 , 134, 414-422	2.3	17
39	Light transmission efficiency of daylight guidance systems: An assessment approach based on simulations and measurements in a sun/sky simulator. <i>Solar Energy</i> , 2011 , 85, 2789-2801	6.8	17
38	Energy assessment of a novel dynamic PCMs based solar shading: results from an experimental campaign. <i>Energy and Buildings</i> , 2017 , 150, 608-624	7	16
37	Development of an aerogel-based thermal coating for the energy retrofit and the prevention of condensation risk in existing buildings. <i>Science and Technology for the Built Environment</i> , 2019 , 25, 1178-1186	11.8	15
36	The Cost Optimal Methodology for Evaluating the Energy Retrofit of an ex-industrial Building in Turin. <i>Energy Procedia</i> , 2015 , 78, 1039-1044	2.3	15
35	Responsive glazing systems: Characterisation methods and winter performance. <i>Solar Energy</i> , 2017 , 155, 372-387	6.8	15
34	Sinusoidal response measurement procedure for the thermal performance assessment of PCM by means of dynamic heat flow meter apparatus. <i>Energy and Buildings</i> , 2019 , 183, 297-310	7	14
33	A Simplified Approach for the Annual and Spatial Evaluation of the Comfort Classes of Daylight Glare Using Vertical Illuminances. <i>Buildings</i> , 2018 , 8, 171	3.2	14

32	Experimental Analysis of an External Dynamic Solar Shading Integrating PCMs: First Results. <i>Energy Procedia</i> , 2015 , 78, 3452-3457	2.3	13
31	Responsive glazing systems: Characterisation methods, summer performance and implications on thermal comfort. <i>Solar Energy</i> , 2017 , 158, 819-836	6.8	12
30	Thermal and optical characterisation of dynamic shading systems with PCMs through laboratory experimental measurements. <i>Energy and Buildings</i> , 2018 , 163, 92-110	7	12
29	Energy Assessment of A Pcm Embedded Plaster: Embodied Energy Versus Operational Energy. <i>Energy Procedia</i> , 2015 , 78, 3210-3215	2.3	12
28	Characteristics that matter in a climate façade: A sensitivity analysis with building energy simulation tools. <i>Energy and Buildings</i> , 2020 , 229, 110467	7	12
27	Low-E paints enhanced building components: Performance, limits and research perspectives. <i>Energy Procedia</i> , 2017 , 126, 274-281	2.3	11
26	Energy Performance Assessment of and Advanced Integrated Façade through Experimental Data Analysis. <i>Energy Procedia</i> , 2014 , 48, 1262-1271	2.3	11
25	NATURWALL - A Solar Timber Façade System for Building Refurbishment: Optimization Process through in Field Measurements. <i>Energy Procedia</i> , 2015 , 78, 291-296	2.3	11
24	An integrated design approach to the development of a vegetal-based thermal plaster for the energy retrofit of buildings. <i>Energy and Buildings</i> , 2016 , 124, 46-59	7	11
23	Wood Fiber vs Synthetic Thermal Insulation for Roofs Energy Retrofit: A Case Study in Turin, Italy. <i>Energy Procedia</i> , 2017 , 111, 347-356	2.3	10
22	Thermal and Optical Properties of a Thermotropic Glass Pane: Laboratory and In-Field Characterization. <i>Energy Procedia</i> , 2015 , 78, 116-121	2.3	10
21	An experimental sensitivity analysis on the summer thermal performance of an Opaque Ventilated Façade. <i>Energy and Buildings</i> , 2020 , 225, 110354	7	10
20	GLANCE (GLare ANnual Classes Evaluation): An approach for a simplified spatial glare evaluation. <i>Building and Environment</i> , 2020 , 186, 107375	6.5	9
19	Modelling double skin façades (DSFs) in whole-building energy simulation tools: Validation and inter-software comparison of a mechanically ventilated single-story DSF. <i>Building and Environment</i> , 2021 , 199, 107906	6.5	9
18	Phase Change Materials in Glazing: Implications on Light Distribution and Visual Comfort. Preliminary Results. <i>Energy Procedia</i> , 2017 , 111, 357-366	2.3	8
17	Analysis of a non-calorimetric method for assessment of in-situ thermal transmittance and solar factor of glazed systems. <i>Solar Energy</i> , 2018 , 166, 458-471	6.8	8
16	Experimental Assessment of the Effects of Low-Emissivity Paints as Interior Radiation Control Coatings. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 842	2.6	7
15	A Novel Concept of a Responsive Transparent Façade Module: Optimization of Energy Performance through Parametric Design. <i>Energy Procedia</i> , 2015 , 78, 358-363	2.3	6

14	A Comparative Analysis of the Visual Comfort Performance between a PCM Glazing and a Conventional Selective Double Glazed Unit. <i>Sustainability</i> , 2018 , 10, 3579	3.6	6
13	Thermo-chromic glazing in buildings: a novel methodological framework for a multi-objective performance evaluation. <i>Energy Procedia</i> , 2019 , 158, 4115-4122	2.3	5
12	Energy Evaluation of a PV-Based Test Facility for Assessing Future Self-Sufficient Buildings. <i>Energies</i> , 2021 , 14, 329	3.1	5
11	The effect of airflow rate control on the performance of a fan-assisted solar air heating façade. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 609, 032008	0.4	4
10	Development of Vegetal Based Thermal Plasters with Low Environmental Impact: Optimization Process through an Integrated Approach. <i>Energy Procedia</i> , 2015 , 78, 967-972	2.3	3
9	Sustainability of Living Wall Systems Through An Ecosystem Services Lens. <i>Sustainable Development and Biodiversity</i> , 2018 , 31-51	2.1	2
8	Evaluating the Impact of Indoor Insulation on Historic Buildings: A Multilevel Approach Involving Heat and Moisture Simulations. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 7944	2.6	2
7	INTESA System: A New High-performance and Highly Integrated Drywall Façade. <i>Energy Procedia</i> , 2015 , 78, 261-266	2.3	1
6	Light versus Energy Performance of Office Rooms with Curtain Walls: A Parametric Study. <i>Energy Procedia</i> , 2014 , 62, 462-471	2.3	1
5	Energy performance evaluation of an innovative active envelope: results from a year round field monitoring 2020 , 487-496		1
4	Human Factor and Energy Efficiency in Buildings: Motivating End-Users Behavioural Change. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 514-525	0.4	1
3	Innovative approaches to thermochromic materials for adaptive building envelopes. <i>Journal of Physics: Conference Series</i> , 2021 , 2069, 012132	0.3	0
2	Energy Performance Assessment of Advanced Integrated Façades by Means of Synthetic Metrics. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 21-28	0.2	
1	Building performance of thermochromic glazing 2021 , 401-437		