

Valentina Serra

List of Publications by Year in Descending Order

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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	Innovative approaches to thermochromic materials for adaptive building envelopes. <i>Journal of Physics: Conference Series</i> , 2021 , 2069, 012132	0.3	0
66	Modelling double skin faades (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
65	Building performance of thermochromic glazing 2021 , 401-437		
64	Energy Evaluation of a PV-Based Test Facility for Assessing Future Self-Sufficient Buildings. <i>Energies</i> , 2021 , 14, 329	3.1	5
63	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
62	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
61	Energy performance evaluation of an innovative active envelope: results from a year round field monitoring 2020 , 487-496		1
60	GLANCE (GLare ANnual Classes Evaluation): An approach for a simplified spatial glare evaluation. <i>Building and Environment</i> , 2020 , 186, 107375	6.5	9
59	Characteristics that matter in a climate faade: A sensitivity analysis with building energy simulation tools. <i>Energy and Buildings</i> , 2020 , 229, 110467	7	12
58	An experimental sensitivity analysis on the summer thermal performance of an Opaque Ventilated Faade. <i>Energy and Buildings</i> , 2020 , 225, 110354	7	10
57	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
56	Thermochromic glazing performance: From component experimental characterisation to whole building performance evaluation. <i>Applied Energy</i> , 2019 , 251, 113335	10.7	24
55	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	1.8	15
54	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
53	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	21
52	The effect of airflow rate control on the performance of a fan-assisted solar air heating faade. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 609, 032008	0.4	4
51	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

50	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
49	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
48	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
47	Phase Change Materials in Transparent Building Envelopes: A Strengths, Weakness, Opportunities and Threats (SWOT) Analysis. <i>Energies</i> , 2018 , 11, 111	3.1	27
46	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
45	Sustainability of Living Wall Systems Through An Ecosystem Services Lens. <i>Sustainable Development and Biodiversity</i> , 2018 , 31-51	2.1	2
44	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
43	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
42	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
41	Embodied Energy Versus Operational Energy in a Nearly Zero Energy Building Case Study. <i>Energy Procedia</i> , 2017 , 111, 367-376	2.3	26
40	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
39	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
38	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
37	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
36	Responsive glazing systems: Characterisation methods, summer performance and implications on thermal comfort. <i>Solar Energy</i> , 2017 , 158, 819-836	6.8	12
35	Low-E paints enhanced building components: Performance, limits and research perspectives. <i>Energy Procedia</i> , 2017 , 126, 274-281	2.3	11
34	Responsive glazing systems: Characterisation methods and winter performance. <i>Solar Energy</i> , 2017 , 155, 372-387	6.8	15
33	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

32	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
31	Insulating coat to prevent mold growth in thermal bridges. <i>Energy Procedia</i> , 2017 , 134, 414-422	2.3	17
30	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
29	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
28	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
27	Spectral and angular solar properties of a PCM-filled double glazing unit. <i>Energy and Buildings</i> , 2015 , 87, 302-312	7	81
26	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
25	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
24	Dynamic Insulation Systems: Experimental Analysis on a Parietodynamic Wall. <i>Energy Procedia</i> , 2015 , 78, 549-554	2.3	22
23	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
22	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
21	Experimental Analysis of an External Dynamic Solar Shading Integrating PCMs: First Results. <i>Energy Procedia</i> , 2015 , 78, 3452-3457	2.3	13
20	Energy Assessment of A Pcm-Embedded Plaster: Embodied Energy Versus Operational Energy. <i>Energy Procedia</i> , 2015 , 78, 3210-3215	2.3	12
19	INTESA System: A New High-performance and Highly Integrated Drywall Façade. <i>Energy Procedia</i> , 2015 , 78, 261-266	2.3	1
18	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
17	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
16	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
15	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

14	Experimental assessment of the energy performance of an advanced responsive multifunctional façade module. <i>Energy and Buildings</i> , 2014 , 68, 647-659	7	40
13	Experimental analysis of the energy performance of a full-scale PCM glazing prototype. <i>Solar Energy</i> , 2014 , 100, 217-233	6.8	97
12	Energy Performance Assessment of and Advanced Integrated Façade through Experimental Data Analysis. <i>Energy Procedia</i> , 2014 , 48, 1262-1271	2.3	11
11	Light versus Energy Performance of Office Rooms with Curtain Walls: A Parametric Study. <i>Energy Procedia</i> , 2014 , 62, 462-471	2.3	1
10	Experimental Analysis of an Advanced Dynamic Glazing Prototype Integrating PCM and Thermotropic Layers. <i>Energy Procedia</i> , 2014 , 48, 1272-1281	2.3	42
9	Energy Performance Assessment of Advanced Integrated Façades by Means of Synthetic Metrics. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 21-28	0.2	
8	Improving thermal comfort conditions by means of PCM glazing systems. <i>Energy and Buildings</i> , 2013 , 60, 442-452	7	100
7	Characterization of the optical properties of a PCM glazing system. <i>Energy Procedia</i> , 2012 , 30, 428-437	2.3	53
6	Calculation procedure of the shading factor under complex boundary conditions. <i>Solar Energy</i> , 2011 , 85, 2524-2539	6.8	20
5	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
4	A numerical model to evaluate the thermal behaviour of active transparent façades. <i>Energy and Buildings</i> , 2011 , 43, 1123-1138	7	44
3	Experimental evaluation of a climate façade: Energy efficiency and thermal comfort performance. <i>Energy and Buildings</i> , 2010 , 42, 50-62	7	69
2	Towards an Active, Responsive, and Solar Building Envelope. <i>Journal of Green Building</i> , 2010 , 5, 121-136	1.3	19
1	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