

Jelena Srebric

List of Publications by Year in descending order

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74
papers

4,022
citations

117453

34
h-index

118652

62
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74
all docs

74
docs citations

74
times ranked

4101
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical analysis of cooling potential and indoor thermal comfort with a novel hybrid radiant cooling system in hot and humid climates. <i>Indoor and Built Environment</i> , 2022, 31, 929-943.	1.5	14
2	Desalination metamodels and a framework for cross-comparative performance simulations. <i>Desalination</i> , 2022, 525, 115474.	4.0	2
3	Tradeoffs between ventilation, air mixing, and passenger density for the airborne transmission risk in airport transportation vehicles. <i>Building and Environment</i> , 2022, 219, 109186.	3.0	3
4	Characterization of aerosol plumes from singing and playing wind instruments associated with the risk of airborne virus transmission. <i>Indoor Air</i> , 2022, 32, .	2.0	8
5	Energy savings and thermal comfort evaluation of a novel personal conditioning device. <i>Energy and Buildings</i> , 2021, 241, 110917.	3.1	5
6	Measurements and Simulations of Aerosol Released while Singing and Playing Wind Instruments. <i>ACS Environmental Au</i> , 2021, 1, 71-84.	3.3	24
7	A Two-Dimensional Numerical Analysis for Thermal Performance of an Intermittently Operated Radiant Floor Heating System in a Transient External Climatic Condition. <i>Heat Transfer Engineering</i> , 2020, 41, 825-839.	1.2	11
8	A comparison of the thermal comfort performances of a radiation floor cooling system when combined with a range of ventilation systems. <i>Indoor and Built Environment</i> , 2020, 29, 527-542.	1.5	34
9	A Clear, Strong, and Thermally Insulated Transparent Wood for Energy Efficient Windows. <i>Advanced Functional Materials</i> , 2020, 30, 1907511.	7.8	124
10	Impact of correlation of plug load data, occupancy rates and local weather conditions on electricity consumption in a building using four back-propagation neural network models. <i>Sustainable Cities and Society</i> , 2020, 62, 102321.	5.1	32
11	Predictions of electricity consumption in a campus building using occupant rates and weather elements with sensitivity analysis: Artificial neural network vs. linear regression. <i>Sustainable Cities and Society</i> , 2020, 62, 102385.	5.1	80
12	Ventilation and laboratory confirmed acute respiratory infection (ARI) rates in college residence halls in College Park, Maryland. <i>Environment International</i> , 2020, 137, 105537.	4.8	51
13	Tradeoffs between energy use and ventilation rates in U.S. Retail stores. <i>Science and Technology for the Built Environment</i> , 2020, 26, 713-725.	0.8	0
14	A Review of CFD Analysis Methods for Personalized Ventilation (PV) in Indoor Built Environments. <i>Sustainability</i> , 2019, 11, 4166.	1.6	51
15	Quantifying Impacts of Urban Microclimate on a Building Energy Consumption—A Case Study. <i>Sustainability</i> , 2019, 11, 4921.	1.6	18
16	A radiative cooling structural material. <i>Science</i> , 2019, 364, 760-763.	6.0	856
17	The Effect of Tree-Planting Patterns on the Microclimate within a Courtyard. <i>Sustainability</i> , 2019, 11, 1665.	1.6	19
18	Performance analysis of a ductless personalized ventilation combined with radiant floor cooling system and displacement ventilation. <i>Building Simulation</i> , 2019, 12, 905-919.	3.0	43

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19	An extensive comparison of modified zero-equation, standard $k-\hat{\mu}$, and LES models in predicting urban airflow. <i>Sustainable Cities and Society</i> , 2018, 40, 28-43.	5.1	37
20	Personalized cooling as an energy efficiency technology for city energy footprint reduction. <i>Journal of Cleaner Production</i> , 2018, 171, 491-505.	4.6	32
21	Impacts of building operational schedules and occupants on the lighting energy consumption patterns of an office space. <i>Building Simulation</i> , 2017, 10, 447-458.	3.0	20
22	Quantifying the impact of urban wind sheltering on the building energy consumption. <i>Applied Thermal Engineering</i> , 2017, 116, 850-865.	3.0	31
23	Building energy model calibration with schedules derived from electricity use data. <i>Applied Energy</i> , 2017, 190, 997-1007.	5.1	56
24	Actual building energy use patterns and their implications for predictive modeling. <i>Energy Conversion and Management</i> , 2017, 144, 164-180.	4.4	28
25	Traffic noise level predictions for buildings with windows opened for natural ventilation in urban environments. <i>Science and Technology for the Built Environment</i> , 2017, 23, 726-735.	0.8	7
26	Cooling efficiency of a spot-type personalized air-conditioner. <i>Building and Environment</i> , 2017, 121, 35-48.	3.0	27
27	Impact of occupancy rates on the building electricity consumption in commercial buildings. <i>Energy and Buildings</i> , 2017, 138, 591-600.	3.1	53
28	Demonstration of reduced-order urban scale building energy models. <i>Energy and Buildings</i> , 2017, 156, 17-28.	3.1	37
29	Quantify Impacts of Local Urban Microclimate on Local Airflow Patterns. <i>Procedia Engineering</i> , 2017, 205, 1983-1989.	1.2	3
30	Creating Geometry with Basic Shape Templates in OpenStudio. <i>Procedia Engineering</i> , 2017, 205, 1990-1995.	1.2	0
31	Influence of building surface solar irradiance on environmental temperatures in urban neighborhoods. <i>Sustainable Cities and Society</i> , 2016, 26, 186-202.	5.1	36
32	Experimental analysis of occupant feedback based model predictive control for thermal comfort and energy optimization. , 2016, , .		1
33	Modeling Sustainability: Population, Inequality, Consumption, and Bidirectional Coupling of the Earth and Human Systems. <i>National Science Review</i> , 2016, 3, nww081.	4.6	96
34	Occupant feedback based model predictive control for thermal comfort and energy optimization: A chamber experimental evaluation. <i>Applied Energy</i> , 2016, 164, 341-351.	5.1	67
35	Influence of reduced VAV flow settings on indoor thermal comfort in an office space. <i>Building Simulation</i> , 2016, 9, 101-111.	3.0	17
36	Numerical Evaluation of the Local Weather Data Impacts on Cooling Energy Use of Buildings in an Urban Area. <i>Procedia Engineering</i> , 2015, 121, 381-388.	1.2	16

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37	Advanced computational modeling for in vitro nanomaterial dosimetry. <i>Particle and Fibre Toxicology</i> , 2015, 12, 32.	2.8	131
38	Building neighborhood emerging properties and their impacts on multi-scale modeling of building energy and airflows. <i>Building and Environment</i> , 2015, 91, 246-262.	3.0	77
39	A Characterization of time-dependent air infiltration rates in retail stores using calibrated multi-zone model. <i>Science and Technology for the Built Environment</i> , 2015, 21, 420-428.	0.8	4
40	A validated numerical investigation of the ceiling fan's role in the upper-room UVGI efficacy. <i>Building and Environment</i> , 2015, 86, 109-119.	3.0	27
41	A data-driven state-space model of indoor thermal sensation using occupant feedback for low-energy buildings. <i>Energy and Buildings</i> , 2015, 91, 187-198.	3.1	36
42	Accumulated snow layer influence on the heat transfer process through green roof assemblies. <i>Building and Environment</i> , 2015, 87, 82-91.	3.0	27
43	An indirect validation of convective heat transfer coefficients (CHTCs) for external building surfaces in an actual urban environment. <i>Building Simulation</i> , 2015, 8, 337-352.	3.0	20
44	Occupant perceptions and a health outcome in retail stores. <i>Building and Environment</i> , 2015, 93, 385-394.	3.0	11
45	Influence of plant coverage on the total green roof energy balance and building energy consumption. <i>Energy and Buildings</i> , 2015, 103, 1-13.	3.1	67
46	Model predictive control for indoor thermal comfort and energy optimization using occupant feedback. <i>Energy and Buildings</i> , 2015, 102, 357-369.	3.1	78
47	Effect of urban neighborhoods on the performance of building cooling systems. <i>Building and Environment</i> , 2015, 90, 15-29.	3.0	65
48	Building energy retrofits under capital constraints and greenhouse gas pricing scenarios. <i>Energy and Buildings</i> , 2015, 107, 407-416.	3.1	22
49	Comparison of survey and numerical sensitivity analysis results to assess the role of life cycle analyses from building designers'™ perspectives. <i>Energy and Buildings</i> , 2015, 108, 463-469.	3.1	15
50	Different modeling strategies of infiltration rates for an office building to improve accuracy of building energy simulations. <i>Energy and Buildings</i> , 2015, 86, 288-295.	3.1	62
51	The impact of exterior surface convective heat transfer coefficients on the building energy consumption in urban neighborhoods with different plan area densities. <i>Energy and Buildings</i> , 2015, 86, 449-463.	3.1	105
52	First International Conference on Energy and Indoor Environment for Hot Climates. <i>HVAC and R Research</i> , 2014, 20, 721-721.	0.9	0
53	Numerical modeling of indoor environment with a ceiling fan and an upper-room ultraviolet germicidal irradiation system. <i>Building and Environment</i> , 2014, 72, 116-124.	3.0	48
54	Ventilation and indoor air quality in retail stores: A critical review (RP-1596). <i>HVAC and R Research</i> , 2014, 20, 276-294.	0.9	24

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55	Cluster analysis of simulated energy use for LEED certified U.S. office buildings. Energy and Buildings, 2014, 85, 86-97.	3.1	43
56	Variability of optimal solutions for building components based on comprehensive life cycle cost analysis. Energy and Buildings, 2014, 79, 223-231.	3.1	52
57	Effects of plant and substrate selection on thermal performance of green roofs during the summer. Building and Environment, 2014, 78, 199-211.	3.0	67
58	Numerical simulation of convective heat transfer coefficients at the external surfaces of building arrays immersed in a turbulent boundary layer. International Journal of Heat and Mass Transfer, 2013, 61, 209-225.	2.5	81
59	Numerical Investigation of Upper-Room UVGI Disinfection Efficacy in an Environmental Chamber with a Ceiling Fan. Photochemistry and Photobiology, 2013, 89, 782-791.	1.3	25
60	Computational fluid dynamics modelling of UR-UVGI lamp effectiveness to promote disinfection of airborne microorganisms. World Review of Science, Technology and Sustainable Development, 2013, 10, 78.	0.3	8
61	Validation of predictive heat and mass transfer green roof model with extensive green roof field data. Ecological Engineering, 2012, 47, 165-173.	1.6	46
62	An advanced numerical model for the assessment of airborne transmission of influenza in bus microenvironments. Building and Environment, 2012, 47, 67-75.	3.0	102
63	A heat transfer model for assessment of plant based roofing systems in summer conditions. Building and Environment, 2012, 49, 310-323.	3.0	114
64	Experimental quantification of heat and mass transfer process through vegetated roof samples in a new laboratory setup. International Journal of Heat and Mass Transfer, 2011, 54, 5149-5162.	2.5	54
65	An investigation of sensible heat fluxes at a green roof in a laboratory setup. Building and Environment, 2011, 46, 1851-1861.	3.0	58
66	Parameters optimization of a vertical ground heat exchanger based on response surface methodology. Energy and Buildings, 2011, 43, 1288-1294.	3.1	87
67	Editorial: Thoughts on the Future of Professional Societies. HVAC and R Research, 2009, 15, 817-818.	0.9	0
68	A CFD-Based Tool for Studying Temperature in Rack-Mounted Servers. IEEE Transactions on Computers, 2008, 57, 1129-1142.	2.4	53
69	Modeling and Managing Thermal Profiles of Rack-mounted Servers with ThermoStat. , 2007, , .		40
70	Development of new and validation of existing convection correlations for rooms with displacement ventilation systems. Energy and Buildings, 2006, 38, 163-173.	3.1	53
71	New Convection Correlations for Cooled Ceiling Panels in Room with Mixed and Stratified Airflow. HVAC and R Research, 2006, 12, 279-294.	0.9	29
72	Simplified Numerical Models for Complex Air Supply Diffusers. HVAC and R Research, 2002, 8, 277-294.	0.9	83

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73	A critical review on the performance and design of combined cooled ceiling and displacement ventilation systems. Energy and Buildings, 2002, 34, 497-509.	3.1	167
74	Natural ventilation design for houses in Thailand. Energy and Buildings, 2001, 33, 815-824.	3.1	102