Jelena Srebric

List of Publications by Citations

70 papers	2,678 citations	31 h-index	50 g-index
74 ext. papers	3,305 ext. citations	6.8 avg, IF	5.52 L-index

#	Paper	IF	Citations
70	A radiative cooling structural material. *Science*, **2019**, 364, 760-763	33.3	419
69	A critical review on the performance and design of combined cooled ceiling and displacement ventilation systems. *Energy and Buildings*, **2002**, 34, 497-509	7	136
68	Advanced computational modeling for in vitro nanomaterial dosimetry. *Particle and Fibre Toxicology*, **2015**, 12, 32	8.4	111
67	A heat transfer model for assessment of plant based roofing systems in summer conditions. *Building and Environment*, **2012**, 49, 310-323	6.5	89
66	The impact of exterior surface convective heat transfer coefficients on the building energy consumption in urban neighborhoods with different plan area densities. *Energy and Buildings*, **2015**, 86, 449-463	7	84
65	Natural ventilation design for houses in Thailand. *Energy and Buildings*, **2001**, 33, 815-824	7	80
64	Simplified Numerical Models for Complex Air Supply Diffusers. *HVAC and R Research*, **2002**, 8, 277-294		67
63	Parameters optimization of a vertical ground heat exchanger based on response surface methodology. *Energy and Buildings*, **2011**, 43, 1288-1294	7	66
62	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	4.9	63
61	An advanced numerical model for the assessment of airborne transmission of influenza in bus microenvironments. *Building and Environment*, **2012**, 47, 67-75	6.5	63
60	Model predictive control for indoor thermal comfort and energy optimization using occupant feedback. *Energy and Buildings*, **2015**, 102, 357-369	7	60
59	Modeling Sustainability: Population, Inequality, Consumption, and Bidirectional Coupling of the Earth and Human Systems. *National Science Review*, **2016**, 3, 470-494	10.8	59
58	Building neighborhood emerging properties and their impacts on multi-scale modeling of building energy and airflows. *Building and Environment*, **2015**, 91, 246-262	6.5	58
57	Effect of urban neighborhoods on the performance of building cooling systems. *Building and Environment*, **2015**, 90, 15-29	6.5	56
56	Occupant feedback based model predictive control for thermal comfort and energy optimization: A chamber experimental evaluation. *Applied Energy*, **2016**, 164, 341-351	10.7	52
55	A Clear, Strong, and Thermally Insulated Transparent Wood for Energy Efficient Windows. *Advanced Functional Materials*, **2020**, 30, 1907511	15.6	50
54	Different modeling strategies of infiltration rates for an office building to improve accuracy of building energy simulations. *Energy and Buildings*, **2015**, 86, 288-295	7	48

53	Effects of plant and substrate selection on thermal performance of green roofs during the summer. *Building and Environment*, **2014**, 78, 199-211	6.5	47
52	Impact of occupancy rates on the building electricity consumption in commercial buildings. *Energy and Buildings*, **2017**, 138, 591-600	7	46
51	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	4.9	46
50	Development of new and validation of existing convection correlations for rooms with displacement ventilation systems. *Energy and Buildings*, **2006**, 38, 163-173	7	46
49	Building energy model calibration with schedules derived from electricity use data. *Applied Energy*, **2017**, 190, 997-1007	10.7	45
48	An investigation of sensible heat fluxes at a green roof in a laboratory setup. *Building and Environment*, **2011**, 46, 1851-1861	6.5	45
47	A CFD-Based Tool for Studying Temperature in Rack-Mounted Servers. *IEEE Transactions on Computers*, **2008**, 57, 1129-1142	2.5	44
46	Influence of plant coverage on the total green roof energy balance and building energy consumption. *Energy and Buildings*, **2015**, 103, 1-13	7	41
45	Validation of predictive heat and mass transfer green roof model with extensive green roof field data. *Ecological Engineering*, **2012**, 47, 165-173	3.9	41
44	Variability of optimal solutions for building components based on comprehensive life cycle cost analysis. *Energy and Buildings*, **2014**, 79, 223-231	7	40
43	Cluster analysis of simulated energy use for LEED certified U.S. office buildings. *Energy and Buildings*, **2014**, 85, 86-97	7	37
42	Predictions of electricity consumption in a campus building using occupant rates and weather elements with sensitivity analysis: Artificial neural network vs. linear regression. *Sustainable Cities and Society*, **2020**, 62, 102385	10.1	33
41	Numerical Modeling of Indoor Environment with a Ceiling Fan and an Upper-Room Ultraviolet Germicidal Irradiation System. *Building and Environment*, **2014**, 72, 116-124	6.5	33
40	Modeling and Managing Thermal Profiles of Rack-mounted Servers with ThermoStat **2007**,		33
39	Ventilation and laboratory confirmed acute respiratory infection (ARI) rates in college residence halls in College Park, Maryland. *Environment International*, **2020**, 137, 105537	12.9	30
38	Demonstration of reduced-order urban scale building energy models. *Energy and Buildings*, **2017**, 156, 17-28	7	30
37	A Review of CFD Analysis Methods for Personalized Ventilation (PV) in Indoor Built Environments. *Sustainability*, **2019**, 11, 4166	3.6	28
36	A data-driven state-space model of indoor thermal sensation using occupant feedback for low-energy buildings. *Energy and Buildings*, **2015**, 91, 187-198	7	26

35	Performance analysis of a ductless personalized ventilation combined with radiant floor cooling system and displacement ventilation. *Building Simulation*, **2019**, 12, 905-919	3.9	25
34	Influence of building surface solar irradiance on environmental temperatures in urban neighborhoods. *Sustainable Cities and Society*, **2016**, 26, 186-202	10.1	24
33	Quantifying the impact of urban wind sheltering on the building energy consumption. *Applied Thermal Engineering*, **2017**, 116, 850-865	5.8	23
32	Personalized cooling as an energy efficiency technology for city energy footprint reduction. *Journal of Cleaner Production*, **2018**, 171, 491-505	10.3	23
31	An extensive comparison of modified zero-equation, standard k-ꭤand LES models in predicting urban airflow. *Sustainable Cities and Society*, **2018**, 40, 28-43	10.1	22
30	New Convection Correlations for Cooled Ceiling Panels in Room with Mixed and Stratified Airflow. *HVAC and R Research*, **2006**, 12, 279-294		22
29	Actual building energy use patterns and their implications for predictive modeling. *Energy Conversion and Management*, **2017**, 144, 164-180	10.6	21
28	Building energy retrofits under capital constraints and greenhouse gas pricing scenarios. *Energy and Buildings*, **2015**, 107, 407-416	7	21
27	Ventilation and indoor air quality in retail stores: A critical review (RP-1596). *HVAC and R Research*, **2014**, 20, 276-294		20
26	Accumulated snow layer influence on the heat transfer process through green roof assemblies. *Building and Environment*, **2015**, 87, 82-91	6.5	20
25	Cooling efficiency of a spot-type personalized air-conditioner. *Building and Environment*, **2017**, 121, 35-48	6.5	18
24	A comparison of the thermal comfort performances of a radiation floor cooling system when combined with a range of ventilation systems. *Indoor and Built Environment*, **2020**, 29, 527-542	1.8	18
23	An indirect validation of convective heat transfer coefficients (CHTCs) for external building surfaces in an actual urban environment. *Building Simulation*, **2015**, 8, 337-352	3.9	17
22	Numerical investigation of upper-room UVGI disinfection efficacy in an environmental chamber with a ceiling fan. *Photochemistry and Photobiology*, **2013**, 89, 782-91	3.6	16
21	A validated numerical investigation of the ceiling fan's role in the upper-room UVGI efficacy. *Building and Environment*, **2015**, 86, 109-119	6.5	16
20	Impacts of building operational schedules and occupants on the lighting energy consumption patterns of an office space. *Building Simulation*, **2017**, 10, 447-458	3.9	15
19	Influence of reduced VAV flow settings on indoor thermal comfort in an office space. *Building Simulation*, **2016**, 9, 101-111	3.9	14
18	Numerical Evaluation of the Local Weather Data Impacts on Cooling Energy Use of Buildings in an Urban Area. *Procedia Engineering*, **2015**, 121, 381-388		14

#	Publication		
17	Comparison of survey and numerical sensitivity analysis results to assess the role of life cycle analyses from building designers perspectives. *Energy and Buildings*, **2015**, 108, 463-469	7	11
16	Quantifying Impacts of Urban Microclimate on a Building Energy Consumption A Case Study. *Sustainability*, **2019**, 11, 4921	3.6	10
15	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. *Sustainable Cities and Society*, **2020**, 62, 102321	10.1	10
14	Occupant perceptions and a health outcome in retail stores. *Building and Environment*, **2015**, 93, 385-394	6.5	9
13	The Effect of Tree-Planting Patterns on the Microclimate within a Courtyard. *Sustainability*, **2019**, 11, 1665	3.6	7
12	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	1	6
11	Numerical analysis of cooling potential and indoor thermal comfort with a novel hybrid radiant cooling system in hot and humid climates. *Indoor and Built Environment*, 1420326X2110408	1.8	5
10	Traffic noise level predictions for buildings with windows opened for natural ventilation in urban environments. *Science and Technology for the Built Environment*, **2017**, 23, 726-735	1.8	4
9	A Characterization of time-dependent air infiltration rates in retail stores using calibrated multi-zone model. *Science and Technology for the Built Environment*, **2015**, 21, 420-428	1.8	4
8	A Two-Dimensional Numerical Analysis for Thermal Performance of an Intermittently Operated Radiant Floor Heating System in a Transient External Climatic Condition. *Heat Transfer Engineering*, **2020**, 41, 825-839	1.7	4
7	Measurements and Simulations of Aerosol Released while Singing and Playing Wind Instruments. *ACS Environmental Au*,		4
6	Quantify Impacts of Local Urban Microclimate on Local Airflow Patterns. *Procedia Engineering*, **2017**, 205, 1983-1989		3
5	Desalination metamodels and a framework for cross-comparative performance simulations. *Desalination*, **2022**, 525, 115474	10.3	0
4	Energy savings and thermal comfort evaluation of a novel personal conditioning device. *Energy and Buildings*, **2021**, 241, 110917	7	0
3	Tradeoffs between ventilation, air mixing, and passenger density for the airborne transmission risk in airport transportation vehicles. *Building and Environment*, **2022**, 109186	6.5	0
2	Tradeoffs between energy use and ventilation rates in U.S. Retail stores. *Science and Technology for the Built Environment*, **2020**, 26, 713-725	1.8	
1	Creating Geometry with Basic Shape Templates in OpenStudio. *Procedia Engineering*, **2017**, 205, 1990-1995		