

Jelena Srebric

List of Publications by Year in descending order

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Version: 2024-02-01

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 | A radiative cooling structural material. <i>Science</i> , 2019, 364, 760-763. | 6.0 | 856 |
| 2 | A critical review on the performance and design of combined cooled ceiling and displacement ventilation systems. <i>Energy and Buildings</i> , 2002, 34, 497-509. | 3.1 | 167 |
| 3 | Advanced computational modeling for in vitro nanomaterial dosimetry. <i>Particle and Fibre Toxicology</i> , 2015, 12, 32. | 2.8 | 131 |
| 4 | A Clear, Strong, and Thermally Insulated Transparent Wood for Energy Efficient Windows. <i>Advanced Functional Materials</i> , 2020, 30, 1907511. | 7.8 | 124 |
| 5 | A heat transfer model for assessment of plant based roofing systems in summer conditions. <i>Building and Environment</i> , 2012, 49, 310-323. | 3.0 | 114 |
| 6 | 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 |
| 7 | Natural ventilation design for houses in Thailand. <i>Energy and Buildings</i> , 2001, 33, 815-824. | 3.1 | 102 |
| 8 | An advanced numerical model for the assessment of airborne transmission of influenza in bus microenvironments. <i>Building and Environment</i> , 2012, 47, 67-75. | 3.0 | 102 |
| 9 | 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 |
| 10 | Parameters optimization of a vertical ground heat exchanger based on response surface methodology. <i>Energy and Buildings</i> , 2011, 43, 1288-1294. | 3.1 | 87 |
| 11 | Simplified Numerical Models for Complex Air Supply Diffusers. <i>HVAC and R Research</i> , 2002, 8, 277-294. | 0.9 | 83 |
| 12 | Numerical simulation of convective heat transfer coefficients at the external surfaces of building arrays immersed in a turbulent boundary layer. <i>International Journal of Heat and Mass Transfer</i> , 2013, 61, 209-225. | 2.5 | 81 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | Effects of plant and substrate selection on thermal performance of green roofs during the summer. <i>Building and Environment</i> , 2014, 78, 199-211. | 3.0 | 67 |
| 17 | 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 |
| 18 | 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 |

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|----|---|-----|-----------|
| 19 | Effect of urban neighborhoods on the performance of building cooling systems. Building and Environment, 2015, 90, 15-29. | 3.0 | 65 |
| 20 | Different modeling strategies of infiltration rates for an office building to improve accuracy of building energy simulations. Energy and Buildings, 2015, 86, 288-295. | 3.1 | 62 |
| 21 | An investigation of sensible heat fluxes at a green roof in a laboratory setup. Building and Environment, 2011, 46, 1851-1861. | 3.0 | 58 |
| 22 | Building energy model calibration with schedules derived from electricity use data. Applied Energy, 2017, 190, 997-1007. | 5.1 | 56 |
| 23 | 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 |
| 24 | 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 |
| 25 | A CFD-Based Tool for Studying Temperature in Rack-Mounted Servers. IEEE Transactions on Computers, 2008, 57, 1129-1142. | 2.4 | 53 |
| 26 | Impact of occupancy rates on the building electricity consumption in commercial buildings. Energy and Buildings, 2017, 138, 591-600. | 3.1 | 53 |
| 27 | Variability of optimal solutions for building components based on comprehensive life cycle cost analysis. Energy and Buildings, 2014, 79, 223-231. | 3.1 | 52 |
| 28 | A Review of CFD Analysis Methods for Personalized Ventilation (PV) in Indoor Built Environments. Sustainability, 2019, 11, 4166. | 1.6 | 51 |
| 29 | Ventilation and laboratory confirmed acute respiratory infection (ARI) rates in college residence halls in College Park, Maryland. Environment International, 2020, 137, 105537. | 4.8 | 51 |
| 30 | Numerical modeling of indoor environment with a ceiling fan and an upper-room ultraviolet germicidal irradiation system. Building and Environment, 2014, 72, 116-124. | 3.0 | 48 |
| 31 | 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 |
| 32 | Cluster analysis of simulated energy use for LEED certified U.S. office buildings. Energy and Buildings, 2014, 85, 86-97. | 3.1 | 43 |
| 33 | Performance analysis of a ductless personalized ventilation combined with radiant floor cooling system and displacement ventilation. Building Simulation, 2019, 12, 905-919. | 3.0 | 43 |
| 34 | Modeling and Managing Thermal Profiles of Rack-mounted Servers with ThermoStat. , 2007, , . | | 40 |
| 35 | Demonstration of reduced-order urban scale building energy models. Energy and Buildings, 2017, 156, 17-28. | 3.1 | 37 |
| 36 | An extensive comparison of modified zero-equation, standard $k-\hat{\mu}$, and LES models in predicting urban airflow. Sustainable Cities and Society, 2018, 40, 28-43. | 5.1 | 37 |

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|----|---|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | Quantifying the impact of urban wind sheltering on the building energy consumption. <i>Applied Thermal Engineering</i> , 2017, 116, 850-865. | 3.0 | 31 |
| 43 | New Convection Correlations for Cooled Ceiling Panels in Room with Mixed and Stratified Airflow. <i>HVAC and R Research</i> , 2006, 12, 279-294. | 0.9 | 29 |
| 44 | Actual building energy use patterns and their implications for predictive modeling. <i>Energy Conversion and Management</i> , 2017, 144, 164-180. | 4.4 | 28 |
| 45 | 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 |
| 46 | 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 |
| 47 | Cooling efficiency of a spot-type personalized air-conditioner. <i>Building and Environment</i> , 2017, 121, 35-48. | 3.0 | 27 |
| 48 | Numerical Investigation of Upper-Room UVGI Disinfection Efficacy in an Environmental Chamber with a Ceiling Fan. <i>Photochemistry and Photobiology</i> , 2013, 89, 782-791. | 1.3 | 25 |
| 49 | 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 |
| 50 | Measurements and Simulations of Aerosol Released while Singing and Playing Wind Instruments. <i>ACS Environmental Au</i> , 2021, 1, 71-84. | 3.3 | 24 |
| 51 | Building energy retrofits under capital constraints and greenhouse gas pricing scenarios. <i>Energy and Buildings</i> , 2015, 107, 407-416. | 3.1 | 22 |
| 52 | 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 |
| 53 | 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 |
| 54 | The Effect of Tree-Planting Patterns on the Microclimate within a Courtyard. <i>Sustainability</i> , 2019, 11, 1665. | 1.6 | 19 |

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|----|---|-----|-----------|
| 55 | Quantifying Impacts of Urban Microclimate on a Building Energy Consumption – A Case Study. Sustainability, 2019, 11, 4921. | 1.6 | 18 |
| 56 | Influence of reduced VAV flow settings on indoor thermal comfort in an office space. Building Simulation, 2016, 9, 101-111. | 3.0 | 17 |
| 57 | Numerical Evaluation of the Local Weather Data Impacts on Cooling Energy Use of Buildings in an Urban Area. Procedia Engineering, 2015, 121, 381-388. | 1.2 | 16 |
| 58 | 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. | 3.1 | 15 |
| 59 | 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, 2022, 31, 929-943. | 1.5 | 14 |
| 60 | Occupant perceptions and a health outcome in retail stores. Building and Environment, 2015, 93, 385-394. | 3.0 | 11 |
| 61 | 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. | 1.2 | 11 |
| 62 | 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 |
| 63 | Characterization of aerosol plumes from singing and playing wind instruments associated with the risk of airborne virus transmission. Indoor Air, 2022, 32, . | 2.0 | 8 |
| 64 | 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. | 0.8 | 7 |
| 65 | Energy savings and thermal comfort evaluation of a novel personal conditioning device. Energy and Buildings, 2021, 241, 110917. | 3.1 | 5 |
| 66 | 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. | 0.8 | 4 |
| 67 | Quantify Impacts of Local Urban Microclimate on Local Airflow Patterns. Procedia Engineering, 2017, 205, 1983-1989. | 1.2 | 3 |
| 68 | Tradeoffs between ventilation, air mixing, and passenger density for the airborne transmission risk in airport transportation vehicles. Building and Environment, 2022, 219, 109186. | 3.0 | 3 |
| 69 | Desalination metamodels and a framework for cross-comparative performance simulations. Desalination, 2022, 525, 115474. | 4.0 | 2 |
| 70 | Experimental analysis of occupant feedback based model predictive control for thermal comfort and energy optimization. , 2016, , . | | 1 |
| 71 | Editorial: Thoughts on the Future of Professional Societies. HVAC and R Research, 2009, 15, 817-818. | 0.9 | 0 |
| 72 | First International Conference on Energy and Indoor Environment for Hot Climates. HVAC and R Research, 2014, 20, 721-721. | 0.9 | 0 |

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|----|--|-----|-----------|
| 73 | Creating Geometry with Basic Shape Templates in OpenStudio. <i>Procedia Engineering</i> , 2017, 205, 1990-1995. | 1.2 | 0 |
| 74 | 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 |