Dejan Mumovic

List of Publications by Year
in descending order

68 papers	1,880 citations	346980 22 h-index	299063 42 g-index
71 all docs	71 docs citations	71 times ranked	1869 citing authors

#	Article	IF	Citations
1	Transcending disciplines in architecture, structural and building services engineering: a new multidisciplinary educational approach. International Journal of Technology and Design Education, 2022, 32, 1247-1265.	1.7	3
2	Managing the risk of the energy performance gap in non-domestic buildings. Building Services Engineering Research and Technology, 2022, 43, 57-88.	0.9	6
3	Window operation behaviour and indoor air quality during lockdown: A monitoring-based simulation-assisted study in London. Building Services Engineering Research and Technology, 2022, 43, 5-21.	0.9	7
4	Seasonal variations and the influence of ventilation rates on IAQ: A case study of five low-energy London apartments. Indoor and Built Environment, 2022, 31, 607-623.	1.5	13
5	Characterising the English school stock using a unified national on-site survey and energy database. Building Services Engineering Research and Technology, 2022, 43, 89-112.	0.9	7
6	Post occupancy evaluation of thermal comfort and indoor air quality of office spaces in a tropical green campus building. Journal of Facilities Management, 2022, 20, 570-585.	1.0	6
7	Systematic evaluation of 1,2-dichloropropane emissions from do-it-yourself spray foam insulation products. Building and Environment, 2022, 207, 108439.	3.0	0
8	Modelling platform for schools (MPS): The development of an automated One-By-One framework for the generation of dynamic thermal simulation models of schools. Energy and Buildings, 2022, 254, 111566.	3.1	8
9	Why do people use portable air purifiers? Evidence from occupant surveys and air quality monitoring in homes in three European cities. Building Research and Information, 2022, 50, 213-229.	2.0	8
10	A critical evaluation of the dynamic nature of indoor-outdoor air quality ratios. Atmospheric Environment, 2022, 273, 118955.	1.9	7
11	Exploring the relationship between window operation behavior and thermal and air quality factors: A case study of UK residential buildings. Journal of Building Engineering, 2022, 48, 103997.	1.6	1
12	Combined effects of ventilation rates and indoor temperatures on cognitive performance of female higher education students in a hot climate. Indoor Air, 2022, 32, e13004.	2.0	7
13	Effects of thermal sensation and acclimatization on cognitive performance of adult female students in Saudi Arabia using multivariable–multilevel statistical modeling. Indoor Air, 2022, 32, e13005.	2.0	3
14	Energy retrofit and passive cooling: overheating and air quality in primary schools. Buildings and Cities, 2022, 3, 204-225.	1.1	11
15	Refurbish or replace? The Life Cycle Carbon Footprint and Life Cycle Cost of Refurbished and New Residential Archetype Buildings in London. Energy, 2022, 248, 123585.	4.5	8
16	Improving indoor air quality and occupant health through smart control of windows and portable air purifiers in residential buildings. Building Services Engineering Research and Technology, 2022, 43, 571-588.	0.9	5
17	Alternatives to air-conditioning: policies, design, technologies, behaviours. Buildings and Cities, 2022, 3, 433-447.	1.1	3
18	Perceived indoor air quality in naturally ventilated primary schools in the UK: Impact of environmental variables and thermal sensation. Indoor Air, 2021, 31, 480-501.	2.0	20

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19	A decision support tool for building design: An integrated generative design, optimisation and life cycle performance approach. International Journal of Architectural Computing, 2021, 19, 401-430.	0.9	10
20	Use of portable air purifiers in homes: Operating behaviour, effect on indoor PM2.5 and perceived indoor air quality. Building and Environment, 2021, 191, 107621.	3.0	54
21	Managing energy performance in buildings from design to operation using modelling and calibration. Building Services Engineering Research and Technology, 2021, 42, 517-531.	0.9	4
22	Scalable pathways to net zero carbon in the UK higher education sector: A systematic review of smart energy systems in university campuses. Renewable and Sustainable Energy Reviews, 2021, 147, 111234.	8.2	44
23	An investigation of the influencing factors for occupants' operation of windows in apartments equipped with portable air purifiers. Building and Environment, 2021, 205, 108260.	3.0	14
24	Building Performance Evaluation of a New Hospital Building in the UK: Balancing Indoor Environmental Quality and Energy Performance. Atmosphere, 2021, 12, 115.	1.0	16
25	Reducing emissions in London schools with photovoltaics. Journal of Physics: Conference Series, 2021, 2042, 012099.	0.3	2
26	Low carbon building performance in the construction industry: A multi-method approach of project management operations and building energy use applied in a UK public office building. Energy and Buildings, 2020, 206, 109609.	3.1	25
27	Polyurethane insulation and household products â€" A systematic review of their impact on indoor environmental quality. Building and Environment, 2020, 169, 106559.	3.0	34
28	The impact of indoor environment quality (IEQ) on school children's overall comfort in the UK; a regression approach. Building and Environment, 2020, 185, 107309.	3.0	42
29	Ventilation rates in naturally ventilated primary schools in the UK; Contextual, Occupant and Building-related (COB) factors. Building and Environment, 2020, 181, 107061.	3.0	38
30	Cross-sectoral assessment of the performance gap using calibrated building energy performance simulation. Energy and Buildings, 2020, 224, 110271.	3.1	30
31	Indoor air quality (IAQ) in naturally-ventilated primary schools in the UK: Occupant-related factors. Building and Environment, 2020, 180, 106992.	3.0	48
32	Indoor air pollution, physical and comfort parameters related to schoolchildren's health: Data from the European SINPHONIE study. Science of the Total Environment, 2020, 739, 139870.	3.9	94
33	Long-term, continuous air quality monitoring in a cross-sectional study of three UK non-domestic buildings. Building and Environment, 2020, 180, 107071.	3.0	20
34	Low carbon building performance in the construction industry: a multi-method approach of system dynamics and building performance modelling. Construction Management and Economics, 2020, 38, 856-876.	1.8	9
35	Development of a health data-driven model for a thermal comfort study. Building and Environment, 2020, 177, 106874.	3.0	13
36	Clearing the air on EU guidance projects for school buildings. Building Research and Information, 2019, 47, 624-634.	2.0	6

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37	An experimental study of spray foam insulation products-evidence of 1,2-dichloropropane and 1,4-dioxane emissions. IOP Conference Series: Materials Science and Engineering, 2019, 609, 042053.	0.3	1
38	Quantifying the Underlying Causes of a Discrepancy Between Predicted and Measured Energy Use. Frontiers in Mechanical Engineering, 2019, 5, .	0.8	7
39	Towards a framework to evaluate the 'total' performance of buildings. Building Services Engineering Research and Technology, 2018, 39, 609-631.	0.9	18
40	The life cycle carbon footprint of refurbished and new buildings – A systematic review of case studies. Renewable and Sustainable Energy Reviews, 2018, 81, 231-241.	8.2	70
41	Building Schools for the Future: Lessons Learned From Performance Evaluations of Five Secondary Schools and Academies in England. Frontiers in Built Environment, 2018, 4, .	1.2	11
42	Designing Natural Ventilation for Urban Buildings. , 2018, , 290-316.		2
43	Energy use predictions with machine learning during architectural concept design. Science and Technology for the Built Environment, 2017, 23, 1036-1048.	0.8	17
44	Life cycle energy efficiency in building structures: A review of current developments and future outlooks based on BIM capabilities. Renewable and Sustainable Energy Reviews, 2017, 67, 811-825.	8.2	178
45	Multilevel Computational Model for Cost and Carbon Optimisation of Reinforced Concrete Floor Systems. , 2017, , .		0
46	A Review of the Regulatory Energy Performance Gap and Its Underlying Causes in Non-domestic Buildings. Frontiers in Mechanical Engineering, 2016, 1, .	0.8	132
47	The economic benefits of reducing the levels of nitrogen dioxide (NO2) near primary schools: The case of London. Journal of Environmental Management, 2016, 181, 615-622.	3.8	28
48	Implementing multi objective genetic algorithm for life cycle carbon footprint and life cycle cost minimisation: A building refurbishment case study. Energy, 2016, 97, 58-68.	4.5	98
49	Crowd-sourced building intelligence: the potential to go beyond existing benchmarks for effective insight, feedback and targeting. Intelligent Buildings International, 2015, 7, 147-160.	1.3	8
50	Is CO_2 a good proxy for indoor air quality in classrooms? Part 1: The interrelationships between thermal conditions, CO_2 levels, ventilation rates and selected indoor pollutants. Building Services Engineering Research and Technology, 2015, 36, 129-161.	0.9	67
51	Using a unified school database to understand the effect of new school buildings on school performance in England. Intelligent Buildings International, 2015, 7, 83-100.	1.3	9
52	Is CO_2 a good proxy for indoor air quality in classrooms? Part 2: Health outcomes and perceived indoor air quality in relation to classroom exposure and building characteristics. Building Services Engineering Research and Technology, 2015, 36, 162-181.	0.9	27
53	Indoor air quality in London schools. Part 1: 'performance in use'. Intelligent Buildings International, 2015, 7, 101-129.	1.3	18
54	Designing intelligent teaching and learning spaces: what do we know?. Intelligent Buildings International, 2015, 7, 61-63.	1.3	2

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55	Application of a Monte Carlo model to predict space heating energy use of Belgrade's housing stock. Journal of Building Performance Simulation, 2015, 8, 375-390.	1.0	18
56	Indoor air quality in London schools. Part 2: long-term integrated assessment. Intelligent Buildings International, 2015, 7, 130-146.	1.3	13
57	BIM Enabled Optimisation Framework for Environmentally Responsible and Structurally Efficient Design Systems. , 2015, , .		5
58	Towards measurement and verification of energy performance under the framework of the European directive for energy performance of buildings. Energy, 2014, 77, 153-163.	4.5	146
59	A comparative study of benchmarking approaches for non-domestic buildings: Part 2 â€" Bottom-up approach. International Journal of Sustainable Built Environment, 2014, 3, 247-261.	3.2	38
60	Improved benchmarking comparability for energy consumption in schools. Building Research and Information, 2014, 42, 47-61.	2.0	102
61	Building performance in the context of industry pressures. International Journal of Energy Sector Management, 2014, 8, 527-543.	1.2	1
62	Life cycle cost and carbon footprint of energy efficient refurbishments to 20th century UK school buildings. International Journal of Sustainable Built Environment, 2014, 3, 1-17.	3.2	46
63	A comparative study of benchmarking approaches for non-domestic buildings: Part 1 â€" Top-down approach. International Journal of Sustainable Built Environment, 2013, 2, 119-130.	3.2	73
64	Comprehensiveness and usability of tools for assessment of energy saving measures in schools. Building Services Engineering Research and Technology, 2013, 34, 55-71.	0.9	4
65	What do we know about indoor air quality in school classrooms? A critical review of the literature. Intelligent Buildings International, 2012, 4, 228-259.	1.3	107
66	Environmental and Behavioral Factors Affecting Residential Air Conditioning Use in Athens and London. Springer Optimization and Its Applications, 2012, , 109-141.	0.6	1
67	The life cycle impact of refurbishment packages on residential buildings with different initial thermal conditions. Journal of Housing and the Built Environment, 0, , 1.	0.9	1
68	Inter-Occupant Diversity in Occupant Behaviour Models: Exploring Potential Benefits for Predicting Light Switch-on Actions. , 0, , .		0