

# Richard A Buswell

## List of Publications by Year in descending order

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37  
papers

4,445  
citations

448610

19  
h-index

388640

36  
g-index

39  
all docs

39  
docs citations

39  
times ranked

2486  
citing authors

#	ARTICLE	IF	CITATIONS
1	Milling a cement-based 3D printable mortar in its green state using a ball-nosed cutter. Cement and Concrete Composites, 2022, 125, 104266.	4.6	9
2	Digital Fabrication with Cement-Based Materials: Underlying Physics. RILEM State-of-the-Art Reports, 2022, , 49-98.	0.3	5
3	Digital Fabrication with Cement-Based Materials: Process Classification and Case Studies. RILEM State-of-the-Art Reports, 2022, , 11-48.	0.3	10
4	Geometric quality assurance for 3D concrete printing and hybrid construction manufacturing using a standardised test part for benchmarking capability. Cement and Concrete Research, 2022, 156, 106773.	4.6	19
5	Technology readiness: A global snapshot of 3D concrete printing and the frontiers for development. Cement and Concrete Research, 2022, 156, 106774.	4.6	86
6	Integrating reinforcement in digital fabrication with concrete: A review and classification framework. Cement and Concrete Composites, 2021, 119, 103964.	4.6	101
7	Development of a dynamic analytical model for estimating waste heat from domestic hot water systems. Energy and Buildings, 2021, 247, 111119.	3.1	10
8	A process classification framework for defining and describing Digital Fabrication with Concrete. Cement and Concrete Research, 2020, 134, 106068.	4.6	138
9	Inspecting manufacturing precision of 3D printed concrete parts based on geometric dimensioning and tolerancing. Automation in Construction, 2020, 117, 103233.	4.8	22
10	The application of quality control charts for identifying changes in time-series home energy data. Energy and Buildings, 2020, 215, 109841.	3.1	6
11	Flexural Behaviour of AR-Glass Textile Reinforced 3D Printed Concrete Beams. RILEM Bookseries, 2020, , 728-737.	0.2	8
12	Inspection Methods for 3D Concrete Printing. RILEM Bookseries, 2020, , 790-803.	0.2	10
13	Quantifying energy demand reduction considering householder willingness to apply measures. Building Research and Information, 2019, 47, 850-864.	2.0	4
14	Energy Modelling and Calibration of Building Simulations: A Case Study of a Domestic Building with Natural Ventilation. Energies, 2019, 12, 3360.	1.6	16
15	Sizing domestic air-source heat pump systems with thermal storage under varying electrical load shifting strategies. Applied Energy, 2019, 255, 113811.	5.1	21
16	Determining of the role of ventilation in residential energy demand reduction using a heat-balance approach. Building and Environment, 2018, 144, 508-518.	3.0	9
17	3D printing using concrete extrusion: A roadmap for research. Cement and Concrete Research, 2018, 112, 37-49.	4.6	860
18	Multidisciplinary research: should effort be the measure of success?. Building Research and Information, 2017, 45, 539-555.	2.0	11

#	ARTICLE	IF	CITATIONS
19	Effectiveness of Using Phase Change Materials on Reducing Summer Overheating Issues in UK Residential Buildings with Identification of Influential Factors. <i>Energies</i> , 2016, 9, 605.	1.6	33
20	Estimating uncertainty when using transient data in steady-state calculations. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 94, 273-283.	2.5	2
21	Modelling curved-layered printing paths for fabricating large-scale construction components. <i>Additive Manufacturing</i> , 2016, 12, 216-230.	1.7	101
22	The implications of heat electrification on national electrical supply-demand balance under published 2050 energy scenarios. <i>Energy</i> , 2016, 98, 253-270.	4.5	45
23	Estimating the Air Change Rates in Dwellings Using a Heat Balance Approach. <i>Energy Procedia</i> , 2015, 78, 573-578.	1.8	4
24	Factors affecting "end-of-day" window position in a non-air-conditioned office building. <i>Energy and Buildings</i> , 2013, 62, 87-96.	3.1	32
25	Establishing the zero-carbon performance of compact urban dwellings. <i>Journal of Building Performance Simulation</i> , 2013, 6, 319-334.	1.0	6
26	Benchmarking small power energy consumption in office buildings in the United Kingdom: A review of data published in CIBSE Guide F. <i>Building Services Engineering Research and Technology</i> , 2013, 34, 73-86.	0.9	29
27	Mix design and fresh properties for high-performance printing concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , 2012, 45, 1221-1232.	1.3	762
28	Hardened properties of high-performance printing concrete. <i>Cement and Concrete Research</i> , 2012, 42, 558-566.	4.6	646
29	Developments in construction-scale additive manufacturing processes. <i>Automation in Construction</i> , 2012, 21, 262-268.	4.8	783
30	Design, data and process issues for mega-scale rapid manufacturing machines used for construction. <i>Automation in Construction</i> , 2008, 17, 923-929.	4.8	80
31	Evolutionary Synthesis of HVAC System Configurations: Algorithm Development (RP-1049). <i>HVAC and R Research</i> , 2008, 14, 33-55.	0.9	27
32	Implications of solid freeform fabrication on acoustic absorbers. <i>Rapid Prototyping Journal</i> , 2007, 13, 298-303.	1.6	18
33	Freeform Construction: Mega-scale Rapid Manufacturing for construction. <i>Automation in Construction</i> , 2007, 16, 224-231.	4.8	367
34	Automatic generation of fuzzy rule-based models from data by genetic algorithms. <i>Information Sciences</i> , 2003, 150, 17-31.	4.0	82
35	Demonstration of Fault Detection and Diagnosis Methods for Air-Handling Units. <i>HVAC and R Research</i> , 2002, 8, 41-71.	0.9	79
36	A methodology for modeling HVAC components using evolving fuzzy rules. , 0, , .		3

#	ARTICLE	IF	CITATIONS
37	VR or PR: Virtual or Physical Reality?. , 0, , 35-46.		0