

# Simon A Austin

## List of Publications by Year in descending order

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Version: 2024-02-01

93  
papers

5,113  
citations

147566

31  
h-index

91712

69  
g-index

94  
all docs

94  
docs citations

94  
times ranked

3173  
citing authors

#	ARTICLE	IF	CITATIONS
1	Developments in construction-scale additive manufacturing processes. <i>Automation in Construction</i> , 2012, 21, 262-268.	4.8	783
2	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
3	Hardened properties of high-performance printing concrete. <i>Cement and Concrete Research</i> , 2012, 42, 558-566.	4.6	646
4	Conceptualizing stakeholder engagement in the context of sustainability and its assessment. <i>Construction Management and Economics</i> , 2008, 26, 601-609.	1.8	179
5	Long-term effect of sulfate ions and associated cation type on chloride-induced reinforcement corrosion in Portland cement concretes. <i>Cement and Concrete Composites</i> , 2002, 24, 17-25.	4.6	124
6	Shear bond testing of concrete repairs. <i>Cement and Concrete Research</i> , 1999, 29, 1067-1076.	4.6	120
7	Tensile bond testing of concrete repairs. <i>Materiaux Et Constructions</i> , 1995, 28, 249-259.	0.3	116
8	Analytical design planning technique (ADePT): a dependency structure matrix tool to schedule the building design process. <i>Construction Management and Economics</i> , 2000, 18, 173-182.	1.8	108
9	Designing out waste in high-rise residential buildings: Analysis of precasting methods and traditional construction. <i>Renewable Energy</i> , 2009, 34, 2067-2073.	4.3	105
10	Modelling curved-layered printing paths for fabricating large-scale construction components. <i>Additive Manufacturing</i> , 2016, 12, 216-230.	1.7	101
11	Development of a Viable Concrete Printing Process. , 2011, , .		98
12	Long-term performance of surface impregnation of reinforced concrete structures with silane. <i>Construction and Building Materials</i> , 2013, 48, 708-716.	3.2	96
13	Modelling and managing project complexity. <i>International Journal of Project Management</i> , 2002, 20, 191-198.	2.7	89
14	Managing value and quality in design. <i>Building Research and Information</i> , 2003, 31, 334-345.	2.0	89
15	Mapping the conceptual design activity of interdisciplinary teams. <i>Design Studies</i> , 2001, 22, 211-232.	1.9	86
16	Analytical design planning technique: a model of the detailed building design process. <i>Design Studies</i> , 1999, 20, 279-296.	1.9	82
17	Modelling information flow during the conceptual and schematic stages of building design. <i>Construction Management and Economics</i> , 1999, 17, 155-167.	1.8	78
18	A Data Flow Model to Plan and Manage the Building Design Process. <i>Journal of Engineering Design</i> , 1996, 7, 3-25.	1.1	56

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19	Causal mapping and scenario building with multiple organisations. <i>Futures</i> , 2010, 42, 219-229.	1.4	56
20	The futures of construction: a critical review of construction future studies. <i>Construction Management and Economics</i> , 2007, 25, 477-493.	1.8	54
21	Development and verification of a generic framework for conceptual design. <i>Design Studies</i> , 2001, 22, 169-191.	1.9	48
22	DePlan: a tool for integrated design management. <i>Automation in Construction</i> , 2004, 13, 313-326.	4.8	47
23	Balancing collaboration and privacy in academic workspaces. <i>Facilities</i> , 2011, 29, 31-49.	0.8	43
24	Flexural strain and crack width measurement of steel-fibre-reinforced concrete by optical grid and electrical gauge methods. <i>Cement and Concrete Research</i> , 2001, 31, 719-729.	4.6	42
25	Improving building design through integrated planning and control. <i>Engineering, Construction and Architectural Management</i> , 2002, 9, 249-258.	1.8	41
26	Manipulating the flow of design information to improve the programming of building design. <i>Construction Management and Economics</i> , 1994, 12, 445-455.	1.8	40
27	Critical success factors in collaborative multi-disciplinary design projects. <i>Journal of Engineering, Design and Technology</i> , 2008, 6, 198-226.	1.1	40
28	Maturity method to predict the evolution of the properties of sprayed concrete. <i>Construction and Building Materials</i> , 2015, 79, 357-369.	3.2	40
29	A unified failure envelope from the evaluation of concrete repair bond tests. <i>Magazine of Concrete Research</i> , 1995, 47, 57-68.	0.9	39
30	Predicting the flexural load-deflection response of steel fibre reinforced concrete from strain, crack-width, fibre pull-out and distribution data. <i>Materials and Structures/Materiaux Et Constructions</i> , 2008, 41, 449-463.	1.3	38
31	Modelling design information to evaluate pre-fabricated and pre-cast design solutions for reducing construction waste in high rise residential buildings. <i>Automation in Construction</i> , 2008, 17, 333-341.	4.8	37
32	Durability performance of sustainable structural concrete: Effect of coarse crushed concrete aggregate on microstructure and water ingress. <i>Construction and Building Materials</i> , 2017, 145, 183-195.	3.2	35
33	Durability performance of sustainable structural concrete: Effect of coarse crushed concrete aggregate on rapid chloride migration and accelerated corrosion. <i>Construction and Building Materials</i> , 2017, 155, 511-521.	3.2	35
34	High value information in engineering organisations. <i>International Journal of Information Management</i> , 2008, 28, 246-258.	10.5	32
35	The rheological performance of wet-process sprayed mortars. <i>Magazine of Concrete Research</i> , 1999, 51, 341-352.	0.9	31
36	Applying a Universal Content and Structure of Values in Construction Management. <i>Journal of Business Ethics</i> , 2009, 90, 473-501.	3.7	30

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37	On-site transient analysis for the corrosion assessment of reinforced concrete. Corrosion Science, 2012, 62, 176-183.	3.0	29
38	Adaptable Architecture. , 0, , .		29
39	Application of the Analytical Design Planning Technique to Construction Project Management. Project Management Journal, 2000, 31, 48-59.	2.6	28
40	Cover zone properties influencing acoustic emission due to corrosion. Cement and Concrete Research, 2005, 35, 284-295.	4.6	27
41	Prediction of steel fibre reinforced concrete under flexure from an inferred fibre pull-out response. Materials and Structures/Materiaux Et Constructions, 2006, 39, 601-610.	1.3	27
42	Designing for interaction in research environments: A case study. Journal of Environmental Psychology, 2011, 31, 407-420.	2.3	27
43	Effect of sulfate ions and associated cation type on the pore solution chemistry in chloride-contaminated plain and blended cements. Cement and Concrete Composites, 2003, 25, 513-525.	4.6	26
44	Accelerated electric curing of steel-fibre reinforced concrete. Construction and Building Materials, 2018, 189, 192-204.	3.2	26
45	What is meant by adaptability in buildings?. Facilities, 2017, 35, 2-20.	0.8	25
46	Influence of diurnal and seasonal temperature variations on the detection of corrosion in reinforced concrete by acoustic emission. Corrosion Science, 2005, 47, 413-433.	3.0	24
47	Development of patch test to study behaviour of shallow concrete patch repairs. Magazine of Concrete Research, 1993, 45, 221-229.	0.9	23
48	Unravelling the complexity of collective mental models: A method for developing and analysing scenarios in multi-organisational contexts. Futures, 2011, 43, 890-907.	1.4	22
49	Mapping the design process during the conceptual phase of building projects. Engineering, Construction and Architectural Management, 2002, 9, 174-180.	1.8	21
50	Influence of curing methods on the strength and permeability of GGBFS concrete in a simulated arid climate. Cement and Concrete Composites, 1992, 14, 157-167.	4.6	18
51	Planning building design by simulating information flow. Automation in Construction, 1998, 8, 149-163.	4.8	18
52	The performance of hardened wet-process sprayed mortars. Magazine of Concrete Research, 2000, 52, 195-208.	0.9	18
53	Portals as a knowledge repository and transfer tool—VIZCon case study. Technovation, 2005, 25, 1281-1289.	4.2	18
54	Material and fibre losses with fibre reinforced sprayed concrete. Construction and Building Materials, 1997, 11, 291-298.	3.2	16

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55	Understanding construction competitiveness: the contribution of system dynamics. <i>Construction Innovation</i> , 2010, 10, 408-420.	1.5	16
56	Chloride-induced reinforcement corrosion in blended cement concretes exposed to chloride-sulphate environments. <i>Magazine of Concrete Research</i> , 2002, 54, 355-364.	0.9	15
57	Suitability of GGBFS as a cement replacement for concrete in hot arid climates. <i>Materiaux Et Constructions</i> , 1992, 25, 598-612.	0.3	14
58	Integrated collaborative design. <i>Journal of Engineering, Design and Technology</i> , 2007, 5, 7-22.	1.1	14
59	Toward collective organizational values: a case study in UK construction. <i>Construction Management and Economics</i> , 2008, 26, 1009-1028.	1.8	14
60	Low-volume wet-process sprayed concrete: hardened properties. <i>Materials and Structures/Materiaux Et Constructions</i> , 2007, 41, 99-111.	1.3	12
61	Fibre distribution and tensile response anisotropy in sprayed fibre reinforced concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , 2018, 51, 1.	1.3	12
62	A new arrangement of galvanic anodes for the repair of reinforced concrete structures. <i>Construction and Building Materials</i> , 2014, 50, 300-307.	3.2	11
63	Integrating design in the project process. <i>Proceedings of the Institution of Civil Engineers: Civil Engineering</i> , 2000, 138, 177-182.	0.3	10
64	A test method and deterioration model for joints and cracks in concrete slabs. <i>Cement and Concrete Research</i> , 2005, 35, 2371-2383.	4.6	10
65	Codification vs personalisation: A study of the information evaluation practice between aerospace and construction industries. <i>International Journal of Information Management</i> , 2010, 30, 315-325.	10.5	10
66	The resistance of steel fibre concrete to VTOL engine jet blast. <i>Cement and Concrete Composites</i> , 1994, 16, 57-64.	4.6	9
67	Design management in practice: testing a training initiative to deliver tools and learning. <i>Construction Innovation</i> , 2003, 3, 217-229.	1.5	9
68	Design methodologies for one way spanning eccentrically loaded minimally or centrally reinforced pre-cast RC panels. <i>Engineering Structures</i> , 2013, 56, 1945-1956.	2.6	9
69	Practitioner understanding of value in the UK building sector. <i>Engineering, Construction and Architectural Management</i> , 2013, 20, 214-231.	1.8	9
70	Evaluating the adaptability of an industrialized building using dependency structure matrices. <i>Construction Management and Economics</i> , 2014, 32, 160-182.	1.8	9
71	Briefing: User-perspectives on walkable neighbourhoods. <i>Proceedings of the Institution of Civil Engineers: Urban Design and Planning</i> , 2009, 162, 155-158.	0.6	8
72	Social capital in action in urban environments: an intersection of theory, research and practice literature. <i>Journal of Urbanism</i> , 2010, 3, 231-252.	0.6	7

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73	Core point-load test for steel-fibre-reinforced concrete. Magazine of Concrete Research, 1985, 37, 238-242.	0.9	6
74	Air permeability versus sorptivity: effects of field curing on cover concrete after one year of field exposure. Magazine of Concrete Research, 2000, 52, 17-24.	0.9	6
75	The impact of a design management training initiative on project performance. Engineering, Construction and Architectural Management, 2006, 13, 7-26.	1.8	5
76	Corrosion risk assessment of structural concrete with coarse crushed concrete aggregate. Proceedings of Institution of Civil Engineers: Construction Materials, 2020, 173, 57-69.	0.7	5
77	Adoption of artificial lightweight aggregate in precast manufacture. Magazine of Concrete Research, 2013, 65, 1173-1186.	0.9	4
78	Healthcare designers'™ use of prescriptive and performance-based approaches. Architectural Engineering and Design Management, 2016, 12, 427-441.	1.2	4
79	A characteristic based information evaluation model. , 2008, , .		3
80	Design re-use: critical application of healthcare building design evidence. Engineering, Construction and Architectural Management, 2019, 26, 350-366.	1.8	3
81	Low-volume wet-process sprayed concrete: pumping and spraying. Materials and Structures/Materiaux Et Constructions, 2005, 38, 229-237.	1.3	3
82	Sources and flow of healthcare built environment design evidence. Built Environment Project and Asset Management, 2021, 11, 851-869.	0.9	2
83	Modelling, placing and controlling active elements in structural engineering design. Control Engineering Practice, 1994, 2, 743-753.	3.2	1
84	Briefing: Delivering value in construction design" a new approach. Proceedings of the Institution of Civil Engineers: Civil Engineering, 2005, 158, 148-148.	0.3	1
85	Instrumentation and early-age monitoring of concrete slabs. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2006, 159, 187-195.	0.4	1
86	Application of Collaborative Project Management in Preconstruction Planning. , 2010, , .		1
87	Civil and Building Engineering, Loughborough University. , 2005, , 502-505.		1
88	Simplified Analytical Assessment of Damaged Induced by the External Sulphate Attack in Concrete Piles. , 2018, , 2282-2289.		1
89	Effects of silica fume on dry-process sprayed concrete. Magazine of Concrete Research, 1998, 50, 25-36.	0.9	0
90	Investigation of current practice in preconstruction planning. , 2011, , .		0

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91	Managing Construction Projects. , 2014, , 36-50.		0
92	CLASSIFYING COMPONENTS BASED ON CHANGE PROPAGATION POTENTIAL. , 2012, , 315-328.		0
93	Towards a methodology for designing active elements into civil structures. , 1992, , .		0