

Ali Akbarnezhad

List of Publications by Year in descending order

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69
papers

2,809
citations

218381

26
h-index

174990

52
g-index

70
all docs

70
docs citations

70
times ranked

2220
citing authors

#	ARTICLE	IF	CITATIONS
1	Microwave-assisted beneficiation of recycled concrete aggregates. <i>Construction and Building Materials</i> , 2011, 25, 3469-3479.	3.2	329
2	Mechanical properties of concrete mixed with recycled powder produced from construction and demolition waste. <i>Journal of Cleaner Production</i> , 2018, 188, 720-731.	4.6	267
3	A recycled aggregate concrete high-rise building: Structural performance and embodied carbon footprint. <i>Journal of Cleaner Production</i> , 2018, 199, 868-881.	4.6	147
4	Effects of the Parent Concrete Properties and Crushing Procedure on the Properties of Coarse Recycled Concrete Aggregates. <i>Journal of Materials in Civil Engineering</i> , 2013, 25, 1795-1802.	1.3	129
5	Effects of structural system on the life cycle carbon footprint of buildings. <i>Energy and Buildings</i> , 2015, 102, 337-346.	3.1	125
6	Variability of stress-strain relationship for recycled aggregate concrete under uniaxial compression loading. <i>Journal of Cleaner Production</i> , 2018, 181, 753-771.	4.6	123
7	Rebar corrosion detection, protection, and rehabilitation of reinforced concrete structures in coastal environments: A review. <i>Construction and Building Materials</i> , 2019, 224, 1026-1039.	3.2	121
8	Estimation and Minimization of Embodied Carbon of Buildings: A Review. <i>Buildings</i> , 2017, 7, 5.	1.4	114
9	A multi-objective mixed integer nonlinear programming model for construction site layout planning to minimise noise pollution and transport costs. <i>Automation in Construction</i> , 2016, 61, 73-85.	4.8	97
10	Analysis of Citation Networks in Building Information Modeling Research. <i>Journal of Construction Engineering and Management - ASCE</i> , 2018, 144, .	2.0	93
11	Utilisation of steel furnace slag coarse aggregate in a low calcium fly ash geopolymer concrete. <i>Cement and Concrete Research</i> , 2016, 89, 220-229.	4.6	92
12	Recycled geopolymer aggregates as coarse aggregates for Portland cement concrete and geopolymer concrete: Effects on mechanical properties. <i>Construction and Building Materials</i> , 2020, 236, 117571.	3.2	92
13	BIM adoption model for small and medium construction organisations in Australia. <i>Engineering, Construction and Architectural Management</i> , 2019, 26, 154-183.	1.8	91
14	Building information modelling-based framework to contrast conventional and modular construction methods through selected sustainability factors. <i>Journal of Cleaner Production</i> , 2019, 228, 1264-1281.	4.6	66
15	BIM-enabled sustainability assessment of material supply decisions. <i>Engineering, Construction and Architectural Management</i> , 2017, 24, 668-695.	1.8	54
16	Multi-criteria selection of façade systems based on sustainability criteria. <i>Building and Environment</i> , 2017, 121, 67-78.	3.0	51
17	Energy implications of using steel-timber composite (STC) elements in buildings. <i>Energy and Buildings</i> , 2018, 176, 203-215.	3.1	51
18	Moisture and temperature induced swelling/shrinkage of softwood and hardwood glulam and LVL: An experimental study. <i>Construction and Building Materials</i> , 2019, 207, 70-83.	3.2	42

#	ARTICLE	IF	CITATIONS
19	Location Optimization of Tower Crane and Allocation of Material Supply Points in a Construction Site Considering Operating and Rental Costs. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	2.0	35
20	Vibration behaviour of steel-timber composite floors, part (1): Experimental & numerical investigation. Journal of Constructional Steel Research, 2019, 161, 244-257.	1.7	34
21	Optimal Work Assignment to Multiskilled Resources in Prefabricated Construction. Journal of Construction Engineering and Management - ASCE, 2019, 145, .	2.0	34
22	Sustainable urban facility location: Minimising noise pollution and network congestion. Transportation Research, Part E: Logistics and Transportation Review, 2017, 107, 38-59.	3.7	31
23	A neural network approach to predicting the net costs associated with BIM adoption. Automation in Construction, 2020, 119, 103306.	4.8	31
24	Accounting for Transport Times in Planning Off-Site Shipment of Construction Materials. Journal of Construction Engineering and Management - ASCE, 2016, 142, .	2.0	30
25	Incorporating Multiskilling and Learning in the Optimization of Crew Composition. Journal of Construction Engineering and Management - ASCE, 2016, 142, .	2.0	27
26	Long-term behaviour of steel-timber composite (STC) shear connections. Engineering Structures, 2019, 196, 109356.	2.6	27
27	Water vapor diffusivity of engineered wood: Effect of temperature and moisture content. Construction and Building Materials, 2019, 224, 1040-1055.	3.2	27
28	Minimizing cutting wastes of reinforcing steel bars through optimizing lap splicing within reinforced concrete elements. Construction and Building Materials, 2018, 185, 600-608.	3.2	26
29	Skill Set Configuration in Prefabricated Construction: Hybrid Optimization and Multicriteria Decision-Making Approach. Journal of Construction Engineering and Management - ASCE, 2019, 145, .	2.0	25
30	A computational method for selection of optimal concrete recycling strategy. Magazine of Concrete Research, 2015, 67, 543-558.	0.9	24
31	A Computational Method for Estimating Travel Frequencies in Site Layout Planning. Journal of Construction Engineering and Management - ASCE, 2016, 142, .	2.0	24
32	A cutting plane algorithm for the site layout planning problem with travel barriers. Computers and Operations Research, 2017, 82, 36-51.	2.4	21
33	Sustainable Zoning, Land-Use Allocation and Facility Location Optimisation in Smart Cities. Energies, 2019, 12, 1318.	1.6	21
34	Comparative Modeling Approach to Capture the Differences in BIM Adoption Decision-Making Process in Australia and China. Journal of Construction Engineering and Management - ASCE, 2020, 146, .	2.0	20
35	Experimental and numerical studies on design for deconstruction concrete connections: An overview. Advances in Structural Engineering, 2018, 21, 2198-2214.	1.2	19
36	Microwave decontamination of concrete. Magazine of Concrete Research, 2010, 62, 879-885.	0.9	17

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37	Optimising Embodied Energy and Thermal Performance of Thermal Insulation in Building Envelopes via an Automated Building Information Modelling (BIM) Tool. Buildings, 2020, 10, 218.	1.4	17
38	Optimization of Job Allocation in Construction Organizations to Maximize Workersâ€™ Career Development Opportunities. Journal of Construction Engineering and Management - ASCE, 2019, 145, .	2.0	16
39	Impact of organization size and project type on BIM adoption in the Chinese construction market. Construction Management and Economics, 2019, 37, 675-691.	1.8	16
40	Job Assignment Based on Brain Demands and Human Resource Strategies. Journal of Construction Engineering and Management - ASCE, 2017, 143, 04016123.	2.0	15
41	Optimising embodied carbon and U-value in load bearing walls: A mathematical bi-objective mixed integer programming approach. Energy and Buildings, 2018, 174, 657-671.	3.1	15
42	Dynamic Programming Approach toward Optimization of Workforce Planning Decisions. Journal of Construction Engineering and Management - ASCE, 2018, 144, .	2.0	14
43	Mathematical optimization in enhancing the sustainability of aircraft trajectory: A review. International Journal of Sustainable Transportation, 2020, 14, 413-436.	2.1	14
44	Performance of oxygen/argon plasma-treated steel fibres in cement mortar. Cement and Concrete Composites, 2019, 97, 24-32.	4.6	13
45	08.27: Steelâ€“timber composite (STC) beams: Numerical simulation of long-term behaviour. Ce/Papers, 2017, 1, 2051-2059.	0.1	12
46	Bridge Abutment Movement and Approach Settlement â€“ A Case Study and Scenario Analysis. International Journal of Structural Stability and Dynamics, 2018, 18, 1840011.	1.5	12
47	A hybrid approach for quantitative assessment of construction projects risks: The case study of poor quality concrete. Computers and Industrial Engineering, 2019, 131, 306-319.	3.4	11
48	A novel mathematical optimisation model for the scheduling of activities in modular construction factories. Construction Management and Economics, 2020, 38, 534-551.	1.8	11
49	Enhancing the safety of construction crew by accounting for brain resource requirements of activities in job assignment. Automation in Construction, 2018, 88, 31-43.	4.8	10
50	Forecasting the net costs to organisations of Building Information Modelling (BIM) implementation at different levels of development (LOD). Journal of Information Technology in Construction, 2019, 24, 588-603.	1.4	10
51	Mathematical optimisation of location and design of windows by considering energy performance, lighting and privacy of buildings. Smart and Sustainable Built Environment, 2019, 8, 117-137.	2.2	9
52	Temperature sensing in microwave heating of concrete using fibre Bragg grating sensors. Magazine of Concrete Research, 2011, 63, 275-285.	0.9	7
53	Bilevel Mixed-Integer Linear Programming Model for Solving the Single Airport Location Problem. Journal of Computing in Civil Engineering, 2017, 31, .	2.5	7
54	Thermal stress and pore pressure development in microwave heated concrete. Computers and Concrete, 2011, 8, 425-443.	0.7	7

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55	Economic and Environmental Assessment of Deconstruction Strategies Using Building Information Modeling. , 2012, , .		6
56	Precision of cement hydration heat models in capturing the effects of SCMs and retarders. Magazine of Concrete Research, 2018, 70, 1217-1231.	0.9	6
57	Analysis of Different Views towards Social Sustainability in Construction. , 2015, , .		5
58	Closure to "Location Optimization of Tower Crane and Allocation of Material Supply Points in a Construction Site Considering Operating and Rental Costs" by Zahra Sadat Moussavi Nadoushani, Ahmed W. A. Hammad, and Ali Akbarnezhad. Journal of Construction Engineering and Management - ASCE, 2018, 144, .	2.0	4
59	A Bi-level Mixed Integer Programming Model to Solve the Multi-Servicing Facility Location Problem, Minimising Negative Impacts Due to an Existing Semi-Obnoxious Facility. Lecture Notes in Management and Industrial Engineering, 2018, , 381-395.	0.3	3
60	Optimization of concrete placing operation based on competing carbon footprint, cost and production rate objectives. Engineering, Construction and Architectural Management, 2018, 25, 938-957.	1.8	3
61	Sustainable Lighting Layout in Urban Areas: Maximizing Implicit Coverage and Minimizing Installation Cost. Frontiers in Built Environment, 2018, 4, .	1.2	2
62	Safety Risks Associated with Carbon Nanotube-Reinforced Mortar. ACI Materials Journal, 2017, 114, .	0.3	2
63	Job Assignments to Construction Workers: Accounting for the Brain Resource Requirements of Activities. , 2016, , .		1
64	Sustainable Procurement and Transport of Construction Materials. , 2019, , 161-209.		1
65	A Multi-Objective Mixed Integer Programming Model for Minimising Obtrusive Effects and Installation Costs of Night-time Lighting on Construction Sites. , 2016, , .		1
66	Seismic Behaviour of RBS and AW-RBS Moment Resistant Connections in Double I-Beams. Applied Mechanics and Materials, 0, 553, 612-617.	0.2	0
67	Effects of Silane Treatment on the Bond Between Steel Fibres and Mortar. Magazine of Concrete Research, 0, , 1-37.	0.9	0
68	Detecting the Presence of Chloride in Hardened Mortar Using Microwave Non-Destructive Testing. , 2018, , 83-90.		0
69	Accounting for Embodied Carbon Emissions in Planning and Optimisation of Transport Activities During Construction. , 2018, , 301-321.		0