

Ashraf Ashour

List of Publications by Year in descending order

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Version: 2024-02-01

140
papers

4,685
citations

87723

38
h-index

128067

60
g-index

145
all docs

145
docs citations

145
times ranked

2786
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-healing cement concrete composites for resilient infrastructures: A review. Composites Part B: Engineering, 2020, 189, 107892.	5.9	254
2	Properties of cementless mortars activated by sodium silicate. Construction and Building Materials, 2008, 22, 1981-1989.	3.2	241
3	Flexural and shear capacities of concrete beams reinforced with GFRP bars. Construction and Building Materials, 2006, 20, 1005-1015.	3.2	150
4	Flexural strengthening of RC continuous beams using CFRP laminates. Cement and Concrete Composites, 2004, 26, 765-775.	4.6	136
5	Flexural behavior of hybrid FRP/steel reinforced concrete beams. Composite Structures, 2015, 129, 111-121.	3.1	134
6	Corrosion of steel reinforcement in concrete of different compressive strengths. Construction and Building Materials, 2011, 25, 3915-3925.	3.2	122
7	Statistical variations in impact resistance of polypropylene fibre-reinforced concrete. International Journal of Impact Engineering, 2006, 32, 1907-1920.	2.4	120
8	Cost optimisation of reinforced concrete flat slab buildings. Engineering Structures, 2005, 27, 313-322.	2.6	108
9	Flexural performance of FRP reinforced concrete beams. Composite Structures, 2012, 94, 1616-1625.	3.1	95
10	Effect and mechanisms of nanomaterials on interface between aggregates and cement mortars. Construction and Building Materials, 2020, 240, 117942.	3.2	92
11	Empirical modelling of shear strength of RC deep beams by genetic programming. Computers and Structures, 2003, 81, 331-338.	2.4	90
12	Flexural Behavior of Continuous GFRP Reinforced Concrete Beams. Journal of Composites for Construction, 2008, 12, 115-124.	1.7	85
13	Experimental study on flexural behavior of ECC-concrete composite beams reinforced with FRP bars. Composite Structures, 2019, 208, 454-465.	3.1	72
14	Size effect on shear strength of FRP reinforced concrete beams. Composites Part B: Engineering, 2014, 60, 612-620.	5.9	67
15	Experimental response and code modelling of continuous concrete slabs reinforced with BFRP bars. Composite Structures, 2014, 107, 664-674.	3.1	66
16	Neural network modelling for shear strength of concrete members reinforced with FRP bars. Composites Part B: Engineering, 2012, 43, 3198-3207.	5.9	63
17	Properties of geopolymers sourced from construction and demolition waste: A review. Journal of Building Engineering, 2022, 50, 104104.	1.6	60
18	Experimental investigation of bond behaviour of two common GFRP bar types in high strength concrete. Construction and Building Materials, 2019, 201, 610-622.	3.2	59

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19	Development of sensing concrete: Principles, properties and its applications. Journal of Applied Physics, 2019, 126, .	1.1	58
20	Shear Capacity of Reinforced Concrete Deep Beams. Journal of Structural Engineering, 2000, 126, 1045-1052.	1.7	57
21	Experimental study on demountable shear connectors in composite slabs with profiled decking. Journal of Constructional Steel Research, 2016, 122, 178-189.	1.7	56
22	Deflection of concrete structures reinforced with FRP bars. Composites Part B: Engineering, 2013, 44, 375-384.	5.9	54
23	Long-term drying shrinkage of self-compacting concrete: Experimental and analytical investigations. Construction and Building Materials, 2019, 202, 825-837.	3.2	52
24	Prediction of tensile capacity of single adhesive anchors using neural networks. Computers and Structures, 2005, 83, 1792-1803.	2.4	51
25	Nano/micro-structures and mechanical properties of ultra-high performance concrete incorporating graphene with different lateral sizes. Composites Part A: Applied Science and Manufacturing, 2020, 137, 106011.	3.8	51
26	Experimental study on compressive behavior and failure analysis of composite concrete confined by glass/epoxy $\pm 55^\circ$ filament wound pipes. Composite Structures, 2018, 187, 157-168.	3.1	48
27	Flexural performance of hybrid GFRP-Steel reinforced concrete continuous beams. Composites Part B: Engineering, 2018, 154, 321-336.	5.9	48
28	Prediction of self-compacting concrete elastic modulus using two symbolic regression techniques. Automation in Construction, 2016, 64, 7-19.	4.8	45
29	Flexural behavior of ECC-concrete composite beams reinforced with steel bars. Construction and Building Materials, 2018, 159, 175-188.	3.2	45
30	Bond strength between corroded steel and recycled aggregate concrete incorporating nano silica. Construction and Building Materials, 2020, 237, 117441.	3.2	45
31	Interfacial characteristics of nano-engineered concrete composites. Construction and Building Materials, 2020, 259, 119803.	3.2	45
32	A hybrid genetic algorithm for reinforced concrete flat slab buildings. Computers and Structures, 2005, 83, 551-559.	2.4	43
33	Concrete breakout strength of single anchors in tension using neural networks. Advances in Engineering Software, 2005, 36, 87-97.	1.8	43
34	Bond strength between corroded steel reinforcement and recycled aggregate concrete. Structures, 2019, 19, 369-385.	1.7	43
35	Investigating pore structure of nano-engineered concrete with low-field nuclear magnetic resonance. Journal of Materials Science, 2021, 56, 243-259.	1.7	43
36	Application of plasticity theory to reinforced concrete deep beams: a review. Magazine of Concrete Research, 2008, 60, 657-664.	0.9	41

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37	Tests of continuous concrete slabs reinforced with carbon fibre reinforced polymer bars. Composites Part B: Engineering, 2014, 66, 348-357.	5.9	41
38	A feasibility study of BBP for predicting shear capacity of FRP reinforced concrete beams without stirrups. Advances in Engineering Software, 2016, 97, 29-39.	1.8	41
39	Tests of self-compacting concrete filled elliptical steel tube columns. Thin-Walled Structures, 2017, 110, 27-34.	2.7	41
40	Antimicrobial concrete for smart and durable infrastructures: A review. Construction and Building Materials, 2020, 260, 120456.	3.2	41
41	Aggregate interlock in lightweight concrete continuous deep beams. Engineering Structures, 2011, 33, 136-145.	2.6	39
42	Influence of section depth on the structural behaviour of reinforced concrete continuous deep beams. Magazine of Concrete Research, 2007, 59, 575-586.	0.9	38
43	Single-lap shear bond tests on Steel Reinforced Geopolymeric Matrix-concrete joints. Composites Part B: Engineering, 2017, 110, 62-71.	5.9	38
44	Flexural Behavior of ECC-Concrete Hybrid Composite Beams Reinforced with FRP and Steel Bars. Journal of Composites for Construction, 2019, 23, .	1.7	38
45	Prediction of shear capacity of single anchors located near a concrete edge using neural networks. Computers and Structures, 2005, 83, 2495-2502.	2.4	35
46	Effect of Corrosion on Shear Behavior of Reinforced Engineered Cementitious Composite Beams. ACI Structural Journal, 2015, 112, .	0.3	35
47	Flexural toughness and calculation model of super-fine stainless wire reinforced reactive powder concrete. Cement and Concrete Composites, 2019, 104, 103367.	4.6	34
48	Performance of single and hybrid nanoparticles added concrete at ambient and elevated temperatures. Construction and Building Materials, 2020, 250, 118847.	3.2	34
49	Moment redistribution in continuous FRP reinforced concrete beams. Construction and Building Materials, 2013, 49, 939-948.	3.2	33
50	Impact resistance of deflection-hardening fiber reinforced concretes with different mixture parameters. Structural Concrete, 2019, 20, 1036-1050.	1.5	33
51	Self-assembled OD/2D nano carbon materials engineered smart and multifunctional cement-based composites. Construction and Building Materials, 2021, 272, 121632.	3.2	33
52	Tests of reinforced concrete beams strengthened with wire rope units. Engineering Structures, 2007, 29, 2711-2722.	2.6	32
53	Flexural performance of reinforced concrete beams strengthened with prestressed near-surface-mounted FRP reinforcements. Composites Part B: Engineering, 2016, 91, 371-383.	5.9	32
54	Fracture and self-sensing characteristics of super-fine stainless wire reinforced reactive powder concrete. Cement and Concrete Composites, 2020, 105, 103427.	4.6	32

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55	Development of alkali-activated binders from recycled mixed masonry-originated waste. Journal of Building Engineering, 2021, 33, 101690.	1.6	32
56	Continuous concrete beams reinforced with CFRP bars. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2008, 161, 349-357.	0.4	31
57	Failure modes and serviceability of high strength self compacting concrete deep beams. Engineering Failure Analysis, 2011, 18, 2272-2281.	1.8	31
58	Comparison of shear behaviour of engineered cementitious composite and normal concrete beams with different shear span lengths. Magazine of Concrete Research, 2016, 68, 217-228.	0.9	31
59	Effectiveness Factor of Concrete in Continuous Deep Beams. Journal of Structural Engineering, 1996, 122, 169-178.	1.7	30
60	Flexural performance of FRP/steel hybrid reinforced engineered cementitious composite beams. Journal of Building Engineering, 2020, 31, 101329.	1.6	30
61	Uniaxial compressive fatigue behavior of ultra-high performance concrete reinforced with super-fine stainless wires. International Journal of Fatigue, 2021, 142, 105959.	2.8	30
62	Strut-and-Tie Model Based on Crack Band Theory for Deep Beams. Journal of Structural Engineering, 2011, 137, 1030-1038.	1.7	29
63	Self-healing capability of large-scale engineered cementitious composites beams. Composites Part B: Engineering, 2016, 101, 1-13.	5.9	29
64	Strength prediction models for steel, synthetic, and hybrid fiber reinforced concretes. Structural Concrete, 2019, 20, 428-445.	1.5	29
65	Nickel plated carbon nanotubes reinforcing concrete composites: from nano/micro structures to macro mechanical properties. Composites Part A: Applied Science and Manufacturing, 2021, 141, 106228.	3.8	29
66	Shear strengthening of continuous reinforced concrete T-beams using wire rope units. Engineering Structures, 2009, 31, 1154-1165.	2.6	28
67	Recent research on composite beams with demountable shear connectors. Steel Construction, 2017, 10, 125-134.	0.4	27
68	Shear capacity of monolithic concrete joints without transverse reinforcement. Magazine of Concrete Research, 2012, 64, 767-779.	0.9	25
69	Corrosion of mild steel and 316L austenitic stainless steel with different surface roughness in sodium chloride saline solutions. WIT Transactions on Engineering Sciences, 2009, , .	0.0	25
70	Improving bond of fiber-reinforced polymer bars with concrete through incorporating nanomaterials. Composites Part B: Engineering, 2022, 239, 109960.	5.9	24
71	Experimental tests of two-span continuous concrete deep beams reinforced with GFRP bars and strut-and-tie method evaluation. Composite Structures, 2019, 216, 112-126.	3.1	23
72	Tension and bonding behaviour of steel-FRP composite bars subjected to the coupling effects of chloride corrosion and load. Construction and Building Materials, 2021, 296, 123641.	3.2	23

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73	Bacterial technology-enabled cementitious composites: A review. <i>Composite Structures</i> , 2019, 225, 111170.	3.1	22
74	Flexural performance of concrete beams reinforced with steel-FRP composite bars. <i>Archives of Civil and Mechanical Engineering</i> , 2020, 20, 1.	1.9	21
75	Load Capacity of Reinforced Concrete Continuous Deep Beams. <i>Journal of Structural Engineering</i> , 2008, 134, 919-929.	1.7	20
76	Eccentric compression behaviour of concrete columns reinforced with steel-FRP composite bars. <i>Engineering Structures</i> , 2021, 238, 112240.	2.6	19
77	Shear behaviour of reinforced construction and demolition waste-based geopolymer concrete beams. <i>Journal of Building Engineering</i> , 2022, 47, 103861.	1.6	19
78	Moment/thrust interaction diagrams for reinforced masonry sections. <i>Construction and Building Materials</i> , 2008, 22, 763-770.	3.2	18
79	Bond between glass fibre reinforced polymer bars and high - strength concrete. <i>Structures</i> , 2019, 22, 139-153.	1.7	18
80	Load capacity predictions of continuous concrete deep beams reinforced with GFRP bars. <i>Structures</i> , 2019, 19, 449-462.	1.7	18
81	Flexural behaviour of hybrid steel-GFRP reinforced concrete continuous T-beams. <i>Composite Structures</i> , 2020, 254, 112802.	3.1	18
82	Code modelling of reinforced-concrete deep beams. <i>Magazine of Concrete Research</i> , 2008, 60, 441-454.	0.9	17
83	Tests of high-performance fiber-reinforced concrete beams with different shear span-to-depth ratios and main longitudinal reinforcement. <i>Journal of Reinforced Plastics and Composites</i> , 2015, 34, 1491-1505.	1.6	17
84	Review of Current Design Guidelines for Circular FRP-Wrapped Plain Concrete Cylinders. <i>Journal of Composites for Construction</i> , 2016, 20, 04015057.	1.7	17
85	Modified four-hinge mechanism analysis for masonry arches strengthened with near-surface reinforcement. <i>Engineering Structures</i> , 2007, 29, 1864-1871.	2.6	16
86	Shear strength of reinforced concrete dapped-end beams using mechanism analysis. <i>Magazine of Concrete Research</i> , 2011, 63, 81-97.	0.9	16
87	Experimental investigation on continuous reinforced SCC deep beams and Comparisons with Code provisions and models. <i>Engineering Structures</i> , 2017, 131, 264-274.	2.6	16
88	Axial behaviour of reinforced concrete short columns strengthened with wire rope and T-shaped steel plate units. <i>Magazine of Concrete Research</i> , 2009, 61, 143-154.	0.9	15
89	Energy-harvesting concrete for smart and sustainable infrastructures. <i>Journal of Materials Science</i> , 2021, 56, 16243-16277.	1.7	15
90	Testing of composite beam with demountable shear connectors. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2018, 171, 3-16.	0.4	14

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91	Properties of concrete incorporating different nano silica particles. Materials Research Innovations, 2020, 24, 133-144.	1.0	14
92	Experimental investigations on the structural behaviour of reinforced geopolymer beams produced from recycled construction materials. Journal of Building Engineering, 2021, 41, 102776.	1.6	14
93	Restoration effects on experimental dynamic characteristics of masonry stone minarets. Materials and Structures/Materiaux Et Constructions, 2018, 51, 1.	1.3	13
94	Bond of nanoinclusions reinforced concrete with old concrete: Strength, reinforcing mechanisms and prediction model. Construction and Building Materials, 2021, 283, 122741.	3.2	12
95	Demountable connections of reinforced concrete structures: Review and future developments. Structures, 2021, 34, 3028-3039.	1.7	12
96	Tests of Continuous Concrete Slabs Reinforced with Basalt Fiber-Reinforced Plastic Bars. ACI Structural Journal, 2017, 114, .	0.3	12
97	Nonlinear Structural Performance of a Historical Brick Masonry Inverted Dome. International Journal of Architectural Heritage, 2020, 14, 1161-1179.	1.7	11
98	Enhancement and underlying mechanisms of stainless steel wires to fatigue properties of concrete under flexure. Cement and Concrete Composites, 2022, 126, 104372.	4.6	11
99	Influence of using different surface areas of nano silica on concrete properties. AIP Conference Proceedings, 2019, , .	0.3	10
100	Nano TiO ₂ -engineered anti-corrosion concrete for sewage system. Journal of Cleaner Production, 2022, 337, 130508.	4.6	10
101	Three-dimensional nonlinear finite element modelling of reinforced concrete structures. Finite Elements in Analysis and Design, 1993, 15, 43-55.	1.7	9
102	Tests of reinforced concrete short columns laterally strengthened with wire rope units and steel elements. Magazine of Concrete Research, 2007, 59, 547-557.	0.9	9
103	Structural behaviour of reinforced-concrete continuous deep beams with web openings. Magazine of Concrete Research, 2007, 59, 699-711.	0.9	9
104	Neural network modelling of RC deep beam shear strength. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2008, 161, 29-39.	0.4	9
105	Window opening effects on structural behavior of historical masonry Fatih Mosque. International Journal of Architectural Heritage, 2019, 13, 585-599.	1.7	9
106	Flexural Performance of Steel Reinforced ECC-Concrete Composite Beams Subjected to Freeze-Thaw Cycles. International Journal of Concrete Structures and Materials, 2020, 14, .	1.4	9
107	Bond behaviors between nano-engineered concrete and steel bars. Construction and Building Materials, 2021, 299, 124261.	3.2	9
108	CFRP strengthened continuous concrete beams. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2003, 156, 395-404.	0.4	8

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109	Tests of concrete flanged beams reinforced with CFRP bars. Magazine of Concrete Research, 2006, 58, 627-639.	0.9	8
110	Shear capacity of reinforced concrete corbels using mechanism analysis. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2012, 165, 111-125.	0.4	8
111	Shear friction strength of monolithic concrete interfaces. Magazine of Concrete Research, 2017, 69, 230-244.	0.9	8
112	Structural performance of Nissibi cable-stayed bridge during the main and aftershocks of AdÄ±yaman-Samsat earthquake on March 2, 2017. Asian Journal of Civil Engineering, 2019, 20, 443-464.	0.8	8
113	Evaluation of Steel Corrosion in Concrete Structures Using Impact-Echo Method. Advanced Materials Research, 0, 1158, 147-164.	0.3	8
114	The effect of freeze-thaw cycles on flexural behaviour of FRP-reinforced ECC beams. Archives of Civil and Mechanical Engineering, 2021, 21, 1.	1.9	8
115	Experimental Study of Mechanical Properties of PVA-ECC under Freeze-Thaw Cycles. Journal of Testing and Evaluation, 2018, 46, 2330-2338.	0.4	8
116	Mechanical properties of self-compacting concrete with recycled bead wires. Revista De La Construccion, 2019, 18, 501-512.	0.5	8
117	Instability Analysis of Eccentrically Loaded Concrete Walls. Journal of Structural Engineering, 1990, 116, 2862-2880.	1.7	7
118	Experimental Dynamic Behaviors and Empirical Frequency Formulas for Historical Timber Mosques. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2019, 29, 404-411.	0.5	6
119	Monitored structural behavior of a long span cable-stayed bridge under environmental effects. Challenge Journal of Structural Mechanics, 2018, 4, 137.	0.2	6
120	Biomass-derived nanocellulose-modified cementitious composites: a review. Materials Today Sustainability, 2022, 18, 100115.	1.9	6
121	Inclined reinforcement around web opening in concrete beams. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2007, 160, 173-182.	0.4	5
122	Behaviour of interlocking mortarless hollow block walls under in-plane loading. Australian Journal of Structural Engineering, 2018, 19, 87-95.	0.4	5
123	Dynamic mechanical properties of cementitious composites with carbon nanotubes. Materials Today Communications, 2020, 22, 100722.	0.9	5
124	Modification Factor for Shear Capacity of Lightweight Concrete Beams. ACI Structural Journal, 2015, 112, .	0.3	5
125	Size of FRP laminates to strengthen reinforced concrete sections in flexure. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2002, 152, 225-233.	0.4	4
126	Compressive properties and underlying mechanisms of nickel coated carbon nanotubes modified concrete. Construction and Building Materials, 2022, 319, 126133.	3.2	4

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127	Effect of Chloride Corrosion on Eccentric-Compression Response of Concrete Columns Reinforced with Steel-FRP Composite Bars. Journal of Composites for Construction, 2022, 26, .	1.7	4
128	Effectiveness factor of self-compacting concrete in compression for limit analysis of continuous deep beams. Engineering Structures, 2018, 164, 14-21.	2.6	3
129	Investigating the compatibility of nickel coated carbon nanotubes and cementitious composites through experimental evidence and theoretical calculations. Construction and Building Materials, 2021, 300, 124340.	3.2	3
130	On the incorporation of nano TiO ₂ to inhibit concrete deterioration in the marine environment. Nanotechnology, 2022, 33, 135704.	1.3	2
131	Developing Multifunctional/Smart Civil Engineering Materials to Fight Viruses. ACS Sustainable Chemistry and Engineering, 2022, 10, 678-690.	3.2	2
132	Overview of tailoring cementitious composites with various nanomaterials. , 2022, , 1-65.		2
133	Flexural behavior of UHPCbeam reinforced with steel-FRP composite bars. Case Studies in Construction Materials, 2022, 16, e01110.	0.8	2
134	Approximation model using genetic programming methodology - Applications. , 2001, , .		1
135	Response to discussion of the paper: "Flexural strengthening of RC continuous beams using CFRP laminates" [Ashour AF, El-Refaie SA, Garrity SW. Cement and Concrete Composites 2004;26:765-775]. Cement and Concrete Composites, 2005, 27, 962-963.	4.6	1
136	Discussion: Shear strength of reinforced concrete dapped-end beams using mechanism analysis. Magazine of Concrete Research, 2013, 65, 765-767.	0.9	1
137	Grout rheological properties for preplaced aggregate concrete production. Proceedings of Institution of Civil Engineers: Construction Materials, 2014, 167, 292-301.	0.7	1
138	Rheological Properties of Mortars Prepared with Different Sands. ACI Materials Journal, 2014, 111, .	0.3	1
139	Discussion: Reinforced concrete two-span continuous deep beams. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2002, 152, 85-86.	0.4	0
140	Discussion on Paper published Magazine of Concrete Research, 2007,59, No. 8, 529-541. Influence of section depth on the structural behaviour of reinforced concrete continuous deep beams. K.-H.Yang, H.-S. Chung and A. F. Ashour. Magazine of Concrete Research, 2010, 62, 229-230.	0.9	0