Mina Dawood

List of Publications by Year
in descending order

56 papers	1,625 citations	304743 22 h-index	302126 39 g-index
57 all docs	57 docs citations	57 times ranked	1089 citing authors

#	Article	IF	Citations
1	Proposed design guidelines for strengthening of steel bridges with FRP materials. Construction and Building Materials, 2007, 21, 1001-1010.	7.2	170
2	Mechanical properties of kenaf fiber reinforced concrete. Construction and Building Materials, 2011, 25, 1991-2001.	7.2	166
3	Environmental durability of a CFRP system for strengthening steel structures. Construction and Building Materials, 2010, 24, 1682-1689.	7.2	135
4	Development of a carbon fiber reinforced polymer system for strengthening steel structures. Composites Part A: Applied Science and Manufacturing, 2008, 39, 388-397.	7.6	91
5	Bond Behavior of CFRP Strengthened Steel Structures. Advances in Structural Engineering, 2006, 9, 805-817.	2.4	83
6	Experimental investigation of short steel columns with localized corrosion. Thin-Walled Structures, 2015, 87, 191-199.	5.3	78
7	Fatigue and Overloading Behavior of Steelâ€“Concrete Composite Flexural Members Strengthened with High Modulus CFRP Materials. Journal of Composites for Construction, 2007, 11, 659-669.	3.2	63
8	Electrochemical behavior of mild and corrosion resistant concrete reinforcing steels. Construction and Building Materials, 2020, 232, 117205.	7.2	57
9	Development of a self-stressing NiTiNb shape memory alloy (SMA)/fiber reinforced polymer (FRP) patch. Smart Materials and Structures, 2015, 24, 065035.	3.5	47
10	Bond behavior of superelastic shape memory alloys to carbon fiber reinforced polymer composites. Composites Part B: Engineering, 2015, 77, 238-247.	12.0	45
11	Static and fatigue bending behavior of pultruded GFRP sandwich panels with through-thickness fiber insertions. Composites Part B: Engineering, 2010, 41, 363-374.	12.0	42
12	Numerical investigation of H-shaped short steel piles with localized severe corrosion. Engineering Structures, 2014, 73, 114-124.	5.3	42
13	Fatigue crack growth analysis of steel elements reinforced with shape memory alloy (SMA)/fiber reinforced polymer (FRP) composite patches. Composite Structures, 2017, 164, 158-169.	5.8	42
14	Two-way bending behavior of 3-D GFRP sandwich panels with through-thickness fiber insertions. Composite Structures, 2010, 92, 950-963.	5.8	38
15	Fatigue Strengthening of Metallic Structures with a Thermally Activated Shape Memory Alloy Fiber-Reinforced Polymer Patch. Journal of Composites for Construction, 2017, 21, .	3.2	33
16	Experimental Investigation of Bond between High-Modulus CFRP and Steel at Moderately Elevated Temperatures. Journal of Composites for Construction, 2016, 20, .	3.2	31
17	Debonding of Carbon Fiberâ€“Reinforced Polymer Patches from Cracked Steel Elements under Fatigue Loading. Journal of Composites for Construction, 2016, 20, .	3.2	29
18	Shape memory alloy-carbon fiber reinforced polymer system for strengthening fatigue-sensitive metallic structures. Engineering Structures, 2018, 171, 190-201.	5.3	29

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19	Influence of pH on chloride binding isotherms for cement paste and its components. Cement and Concrete Research, 2021, 143, 106378.	11.0	29
20	Repair of corroded and buckled short steel columns using concrete-filled GFRP jackets. Construction and Building Materials, 2015, 94, 20-27.	7.2	28
21	Global and Local Fiber Optic Sensors for Health Monitoring of Civil Engineering Infrastructure Retrofit with FRP Materials. Structural Health Monitoring, 2010, 9, 309-322.	7.5	24
22	Reliability analysis of adhesively bonded CFRP-to-steel double lap shear joint with thin outer adherends. Construction and Building Materials, 2017, 141, 52-63.	7.2	23
23	Fatigue behavior of a thermally-activated NiTiNb SMA-FRP patch. Smart Materials and Structures, 2016, 25, 015030.	3.5	21
24	A closed-form solution of the interfacial stresses and strains in steel beams strengthened with externally bonded plates using ductile adhesives. Engineering Structures, 2018, 154, 66-77.	5.3	21
25	Reinforced Concrete Degradation in the Harsh Climates of the Arabian Gulf: Field Study on 30-to-50-Year-Old Structures. Journal of Performance of Constructed Facilities, 2018, 32, 04018059.	2.0	20
26	Bond behavior of NiTiNb SMA wires embedded in CFRP composites. Polymer Composites, 2018, 39, 3780-3791.	4.6	19
27	Experimental Study of Full-Scale Corroded Steel Bridge Piles Repaired Underwater with Grout-Filled Fiber-Reinforced Polymer Jackets. Journal of Composites for Construction, 2018, 22, .	3.2	18
28	Enhancing the resistance of composite sandwich panels to localized forces for civil infrastructure and transportation applications. Composite Structures, 2011, 93, 2983-2991.	5.8	15
29	Sustainability of fiber-reinforced polymers (FRPs) as a construction material. , 2016, , 521-538.		15
30	Effective Splices for a Carbon Fiberâ€“Reinforced Polymer. Transportation Research Record, 2009, 2131, 125-133.	1.9	14
31	Bond behavior of epoxy resinâ€“polydicyclopentadiene phase separated interpenetrating networks for adhering carbon fiber reinforced polymer to steel. Polymer Engineering and Science, 2020, 60, 104-112.	3.1	14
32	Effect of surface preparation technique on bond behavior of CFRP-steel double-lap joints: Experimental and numerical studies. Composite Structures, 2021, 255, 113048.	5.8	13
33	Innovative Use of FRP for the Precast Concrete Industry. Advances in Structural Engineering, 2012, 15, 565-574.	2.4	11
34	Behavior and Performance of Fiber-Reinforced Polymer-to-Steel Bond. Transportation Research Record, 2012, 2313, 181-188.	1.9	11
35	Durability of steel components strengthened with fiber-reinforced polymer (FRP) composites. , 2014, , 96-114.		11
36	Fatigue Life Assessment of Cracked High-Mast Illumination Poles. Journal of Performance of Constructed Facilities, 2014, 28, 311-320.	2.0	11

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37	Influence of base-plate connection stiffness on the design of low-rise metal buildings. Journal of Constructional Steel Research, 2015, 115, 169-178.	3.9	10
38	Inelastic Buckling Behavior of Steel H-Piles with Localized Severe Corrosion. Journal of Bridge Engineering, 2016, 21, .	2.9	9
39	Real time monitoring of spot-welded joints under service load using lead zirconate titanate (PZT) transducers. Smart Materials and Structures, 2017, 26, 035059.	3.5	8
40	High-cycle fatigue performance of high-mast illumination pole bases with pre-existing cracks. Journal of Constructional Steel Research, 2017, 138, 463-472.	3.9	8
41	Reliability Analysis of Debonding in Steel Beams Strengthened with Externally Bonded CFRP Composites. Journal of Composites for Construction, 2019, 23, .	3.2	8
42	Reversed Cyclic Behavior of Column-to-Foundation Connections in Low-Rise Metal Buildings. Journal of Structural Engineering, 2017, 143, .	3.4	6
43	Evaluation of existing provisions for design of â€œpinnedâ€•column base-plate connections. Journal of Constructional Steel Research, 2018, 148, 233-250.	3.9	6
44	Effect of surface preparation technique on fatigue performance of steel structures repaired with self-stressing SMA/CFRP patch. Composite Structures, 2022, 280, 114968.	5.8	6
45	Calibration of Flexural Resistance Factors for Load and Resistance Factor Design of Concrete Bridge Girders Prestressed with Carbon Fiberâ€“Reinforced Polymers. Journal of Composites for Construction, 2016, 20, 04015050.	3.2	5
46	Connection development and in-plane response of glass fiber reinforced polymer sandwich panels with reinforced cores. Canadian Journal of Civil Engineering, 2013, 40, 1117-1126.	1.3	3
47	Prestressing bridge girders with carbon fiberâ€“reinforced polymer: State of knowledge and research needs. Advances in Structural Engineering, 2018, 21, 598-612.	2.4	3
48	Experimental study and probabilistic bond strengths of adhesively-bonded steel butt joints under mixed-mode loadings. Engineering Structures, 2018, 172, 163-171.	5.3	3
49	Case Study on the Collapse Potential of a Wharf Supported by Severely Deteriorated Steel Piles under Gravitational Loads. Journal of Performance of Constructed Facilities, 2018, 32, .	2.0	3
50	Fundamental Characteristics of New High Modulus CFRP Materials for Strengthening Steel Bridges and Structures. , 2006, , 215-226.		2
51	Self-monitoring fiber reinforced polymer strengthening system for civil engineering infrastructures. , 2008, , .		2
52	Fiber-reinforced polymer (FRP) composites for strengthening steel structures. , 2013, , 382-409.		1
53	Rehabilitation of steel tension members using fiber-reinforced polymer (FRP) composites. , 2014, , 169-200.		1
54	Rehabilitation of corroded H-piles using friction-type bolted plate-based repair system. Journal of Constructional Steel Research, 2018, 145, 277-288.	3.9	1

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55	Influence of morphological characteristics on the mechanical properties and failure mechanisms of legacy butt welds. Construction and Building Materials, 2019, 198, 158-171.	7.2	1
56	Moment-Rotation Behavior of "Pinned" Connections in Low-Rise Metal Buildings. , 2014, , .		0