Amir Mirmiran

List of Publications by Citations

98 papers	3,648 citations	27 h-index	58 g-index
102 ext. papers	4,117 ext. citations	3.3 avg, IF	5.31 L-index

#	Paper	IF	Citations
98	Model of Concrete Confined by Fiber Composites. *Journal of Structural Engineering*, **1998**, 124, 1025-1034	3	566
97	Behavior of Concrete Columns Confined by Fiber Composites. *Journal of Structural Engineering*, **1997**, 123, 583-590	3	515
96	Effect of Column Parameters on FRP-Confined Concrete. *Journal of Composites for Construction*, **1998**, 2, 175-185	3.3	456
95	A new concrete-filled hollow FRP composite column. *Composites Part B: Engineering*, **1996**, 27, 263-268	10	144
94	Nonlinear finite element modeling of concrete confined by fiber composites. *Finite Elements in Analysis and Design*, **2000**, 35, 79-96	2.2	123
93	Dilation characteristics of confined concrete. *International Journal for Numerical and Analytical Methods in Geomechanics*, **1997**, 2, 237-249		118
92	Cyclic modeling of FRP-confined concrete with improved ductility. *Cement and Concrete Composites* , **2006**, 28, 959-968	8.6	100
91	Slenderness Limit for Hybrid FRP-Concrete Columns. *Journal of Composites for Construction*, **2001**, 5, 26-34	3.3	81
90	Strength and Ductility of Hybrid FRP-Concrete Beam-Columns. *Journal of Structural Engineering*, **1999**, 125, 1085-1093	3	81
89	Seismic Performance of Concrete-Filled FRP Tube Columns for Bridge Substructure. *Journal of Bridge Engineering*, **2006**, 11, 359-370	2.7	68
88	Behavior of Ultrahigh-Performance Concrete Confined by Fiber-Reinforced Polymers. *Journal of Materials in Civil Engineering*, **2011**, 23, 1727-1734	3	66
87	Experimental Investigation of Cyclic Behavior of Concrete-Filled Fiber Reinforced Polymer Tubes. *Journal of Composites for Construction*, **2005**, 9, 263-273	3.3	51
86	Cyclic Behavior of Hybrid Columns Made of Ultra High Performance Concrete and Fiber Reinforced Polymers. *Journal of Composites for Construction*, **2012**, 16, 91-99	3.3	49
85	Damage Assessment of FRP-Encased Concrete Using Ultrasonic Pulse Velocity. *Journal of Engineering Mechanics - ASCE*, **2001**, 127, 126-135	2.4	47
84	Shake table response and analysis of a concrete-filled FRP tube bridge column. *Composite Structures*, **2012**, 94, 1564-1574	5.3	45
83	Performance of FRP-Strengthened RC Beams with Different Concrete Surface Profiles. *Journal of Composites for Construction*, **2008**, 12, 626-634	3.3	43
82	Preloaded RC columns strengthened with high-strength concrete jackets under uniaxial compression. *Materials and Structures/Materiaux Et Constructions*, **2008**, 41, 1251-1262	3.4	43

81	Creep modeling for concrete-filled steel tubes. *Journal of Constructional Steel Research*, **2003**, 59, 1327-1344	3.4	41
80	Acoustic Emission Monitoring of Hybrid FRP-Concrete Columns. *Journal of Engineering Mechanics - ASCE*, **1999**, 125, 899-905	2.4	38
79	Special Structures: Past, Present, and Future. *Journal of Structural Engineering*, **2002**, 128, 691-709	3	36
78	A super lightweight UHPC-HSS deck panel for movable bridges. *Engineering Structures*, **2016**, 113, 186-193	4.7	36
77	Shear failure analysis on ultra-high performance concrete beams reinforced with high strength steel. *Engineering Structures*, **2011**, 33, 3597-3609	4.7	33
76	Effect of age on the compressive strength of ultra-high-performance fiber-reinforced concrete. *Construction and Building Materials*, **2018**, 175, 402-410	6.7	31
75	Development Length of High-Strength Steel Rebar in Ultrahigh Performance Concrete. *Journal of Materials in Civil Engineering*, **2013**, 25, 991-998	3	31
74	Analysis and field tests on the performance of composite tubes under pile driving impact. *Composite Structures*, **2002**, 55, 127-135	5.3	31
73	Design, manufacture and testing of a new hybrid column. *Construction and Building Materials*, **1998**, 12, 39-49	6.7	28
72	Stay-In-Place FRP Form for Concrete Columns. *Advances in Structural Engineering*, **2003**, 6, 231-241	1.9	27
71	Effect of Column Parameters on Axial Compression Behavior of Concrete-Filled FRP Tubes. *Advances in Structural Engineering*, **2005**, 8, 443-449	1.9	27
70	Shear behavior of ultra-high performance concrete. *Construction and Building Materials*, **2018**, 183, 554-564	6.7	26
69	Fiber element modeling for seismic performance of bridge columns made of concrete-filled FRP tubes. *Engineering Structures*, **2006**, 28, 2023-2035	4.7	26
68	Fiber-Element Model for Cyclic Analysis of Concrete-Filled Fiber Reinforced Polymer Tubes. *Journal of Structural Engineering*, **2005**, 131, 292-303	3	25
67	Comparison of acoustic emission activity in steel-reinforced and FRP-reinforced concrete beams. *Construction and Building Materials*, **2000**, 14, 299-310	6.7	25
66	Seismic Response of Ultra-High Performance Concrete-Filled FRP Tube Columns. *Journal of Earthquake Engineering*, **2013**, 17, 155-170	1.8	24
65	Behavior of RC T-Beams Strengthened in Shear with CFRP under Cyclic Loading. *Journal of Bridge Engineering*, **2013**, 18, 99-109	2.7	24
64	Stress-Strain Model of Ultrahigh Performance Concrete Confined by Fiber-Reinforced Polymers. *Journal of Materials in Civil Engineering*, **2013**, 25, 1822-1829	3	20

63	Control of Plastic Shrinkage Cracking of Concrete with Carbon Fiber-Reinforced Polymer Grids. *Journal of Materials in Civil Engineering*, **2007**, 19, 441-444	3	19
62	Novel UHPC-CFRP Waffle Deck Panel System for Accelerated Bridge Construction. *Journal of Composites for Construction*, **2016**, 20, 04015042	3.3	18
61	Plasticity based stress□train model for concrete confinement. *Engineering Structures*, **2013**, 48, 645-657	4.7	17
60	BUCKLING ANALYSIS OF CONCRETE-FILLED FRP TUBES. *International Journal of Structural Stability and Dynamics*, **2001**, 01, 367-383	1.9	17
59	Stay-in-Place Fiber Reinforced Polymer Forms for Precast Modular Bridge Pier System. *Journal of Composites for Construction*, **2004**, 8, 560-568	3.3	16
58	Creep and Durability of Environmentally Conditioned FRP-RC Beams Using Fiber Optic Sensors. *Journal of Reinforced Plastics and Composites*, **2002**, 21, 351-373	2.9	16
57	State of Practice for Positive Moment Connections in Prestressed Concrete Girders Made Continuous. *Journal of Bridge Engineering*, **2003**, 8, 267-272	2.7	15
56	Nonlinear cyclic response of laminated glass FRP tubes filled with concrete. *Composite Structures*, **2004**, 65, 91-101	5.3	15
55	Punching Shear Enhancement of Flat Slabs with Partial Use of Ultrahigh-Performance Concrete. *Journal of Materials in Civil Engineering*, **2015**, 27, 04014255	3	14
54	Wind-Loading Effects on Roof-to-Wall Connections of Timber Residential Buildings. *Journal of Engineering Mechanics - ASCE*, **2013**, 139, 386-395	2.4	14
53	Construction tolerances and design parameters for NSM FRP reinforcement in concrete beams. *Construction and Building Materials*, **2010**, 24, 1821-1829	6.7	14
52	Nonlinear Continuity Analysis of Precast, Prestressed Concrete Girders with Cast-in-Place Decks and Diaphragms. *PCI Journal*, **2001**, 46, 60-80	2.1	14
51	Behavior of Ultrahigh-Performance Concrete Confined by Steel. *Journal of Materials in Civil Engineering*, **2016**, 28, 04016113	3	13
50	Behavior of Short and Deep Beams Made of Concrete-Filled Fiber-Reinforced Polymer Tubes. *Journal of Composites for Construction*, **2008**, 12, 102-110	3.3	13
49	Buckling and Postbuckling of Prestressed Sandwich Arches. *Journal of Structural Engineering*, **1993**, 119, 262-278	3	13
48	Performance of Roof Tiles under Simulated Hurricane Impact. *Journal of Architectural Engineering*, **2009**, 15, 26-34	1.5	12
47	Splicing of Precast Concrete-Filled FRP Tubes. *Journal of Composites for Construction*, **2006**, 10, 345-356	3.3	12
46	Study of the Capability of Multiple Mechanical Fasteners in Roof-to-Wall Connections of Timber Residential Buildings. *Practice Periodical on Structural Design and Construction*, **2011**, 16, 2-9	1.2	11

45	World Survey of Civil Engineering Programs on Fiber Reinforced Polymer Composites for Construction. *Journal of Professional Issues in Engineering Education and Practice*, **2003**, 129, 155-160	0.7	11
44	A comparative study of flexural and shear behavior of ultra-high-performance fiber-reinforced concrete beams. *Advances in Structural Engineering*, **2019**, 22, 1727-1738	1.9	10
43	Sectional analysis for design of ultra-high performance fiber reinforced concrete beams with passive reinforcement. *Engineering Structures*, **2018**, 160, 121-132	4.7	10
42	Life-cycle performance model for composites in construction. *Composites Part B: Engineering*, **2007**, 38, 236-246	10	10
41	Creep Analysis of Axially Loaded Fiber Reinforced Polymer-Confined Concrete Columns. *Journal of Engineering Mechanics - ASCE*, **2003**, 129, 1308-1319	2.4	10
40	Dowel action and shear strength contribution of high strength rebar embedded in ultra-high performance fiber reinforced concrete. *Engineering Structures*, **2015**, 83, 223-232	4.7	9
39	Assessment of Cyclic Behavior of Hybrid FRP Concrete Columns. *Journal of Bridge Engineering*, **2013**, 18, 553-563	2.7	9
38	Cyclic Behavior of FRP Concrete Bridge Pier Frames. *Journal of Bridge Engineering*, **2013**, 18, 429-438	2.7	9
37	Effect of Untreated Surface Disbonds on Performance of FRP-Retrofitted Concrete Beams. *Journal of Composites for Construction*, **2009**, 13, 476-485	3.3	9
36	Effectiveness of Surface-Applied Corrosion Inhibitors for Concrete Bridges. *Journal of Materials in Civil Engineering*, **2011**, 23, 271-280	3	9
35	Experimental Evaluation of Aluminum Bridge Deck System. *Journal of Bridge Engineering*, **2012**, 17, 97-106	2.7	9
34	Flexural Creep Tests and Modeling of Concrete-Filled Fiber Reinforced Polymer Tubes. *Journal of Composites for Construction*, **2002**, 6, 272-279	3.3	9
33	Effects of Fabrication Process on Prestressed Composite Arches. *Journal of Structural Engineering*, **1995**, 121, 124-131	3	9
32	Creep and shrinkage behavior of high-strength concrete and minimum reinforcement ratio for bridge columns. *PCI Journal*, **2010**, 55, 138-154	2.1	9
31	Effectiveness of Externally Applied CFRP Stirrups for Rehabilitation of Slab-Column Connections. *Journal of Composites for Construction*, **2013**, 17, 04013008	3.3	8
30	Flexural behavior of prestressed FRP tubular bridge deck. *Composites Part B: Engineering*, **2009**, 40, 125-133	1.3	8
29	Triaxial Load Testing of Metal and FRP Roof-to-Wall Connectors. *Journal of Architectural Engineering*, **2011**, 17, 112-120	1.5	8
28	Local damage assessment of turbine missile impact on composite and multiple barriers. *Nuclear Engineering and Design*, **1997**, 178, 145-156	1.8	8

27	EFFECT OF GEOMETRIC AND LOADING CONDITIONS ON STABILITY OF PRESTRESSED ARCHES. *International Journal of Structural Stability and Dynamics*, **2001**, 01, 509-526	1.9	7
26	Stability of Prebuckled Sandwich Elastica Arches: Parametric Study. *Journal of Engineering Mechanics - ASCE*, **1993**, 119, 767-785	2.4	7
25	Fatigue Behavior of Concrete-Filled Fiber-Reinforced Polymer Tubes. *Journal of Composites for Construction*, **2008**, 12, 478-487	3.3	5
24	FRP-Confined Concrete Model. *Journal of Composites for Construction*, **2001**, 5, 62-65	3.3	5
23	Local Damage Assessment of Metal Barriers under Turbine Missile Impacts. *Journal of Structural Engineering*, **1996**, 122, 99-108	3	5
22	Inelastic Buckling of Prestressed Sandwich or Homogeneous Arches. *Journal of Structural Engineering*, **1993**, 119, 2733-2743	3	5
21	Experimental Characterization of Ultrahigh-Performance Concrete Bridge Deck System. *Journal of Bridge Engineering*, **2015**, 20, 04014101	2.7	4
20	Fatigue Modeling of Concrete-Filled Fiber-Reinforced Polymer Tubes. *Journal of Composites for Construction*, **2009**, 13, 582-590	3.3	4
19	Development of Fiber-Reinforced Polymer Roof-to-Wall Connection. *Journal of Composites for Construction*, **2011**, 15, 644-652	3.3	4
18	Combined Shear and Flexural Behavior of Hybrid FRP-Concrete Beams Previously Subjected to Cyclic Loading. *Journal of Composites for Construction*, **2011**, 15, 841-849	3.3	4
17	A new hysteresis model for steel members. *International Journal for Numerical Methods in Engineering*, **1999**, 45, 1007-1023	2.4	4
16	Flexural Response of UHPFRC Beams Reinforced with Steel Rebars. *Advances in Civil Engineering Materials*, **2019**, 8, 20190129	0.7	4
15	Proposal for Concrete Compressive Strength up to 18 ksi (124 MPa) for Bridge Design. *Transportation Research Record*, **2009**, 2131, 59-67	1.7	3
14	Full-Scale Testing of a Precast Concrete Supertile Roofing System for Hurricane Damage Mitigation. *Journal of Architectural Engineering*, **2016**, 22,	1.5	3
13	Comparative Study of Unbonded Carbon Fiber and Steel Strands in Posttensioned Pier Caps. *Journal of Composites for Construction*, **2016**, 20, 04015036	3.3	2
12	Performance of FRP-Strengthened RC Beams with Surface Out-Of-Flatness. *Advances in Structural Engineering*, **2009**, 12, 241-255	1.9	2
11	Seismic Performance of Reinforced Concrete Bridge Substructure Encased in Fiber Composite Tubes. *Transportation Research Record*, **2006**, 1976, 197-206	1.7	2
10	Stability Tests of Sandwich Composite Elastica Arches. *Journal of Structural Engineering*, **2002**, 128, 683-686	3	2

9	Dilation characteristics of confined concrete **1997**, 2, 237		2
8	Uplift Capacity and Impact Resistance of Roof Tiles. *Practice Periodical on Structural Design and Construction*, **2011**, 16, 121-129	1.2	1
7	ELASTO-PLASTIC BUCKLING OF PRESTRESSED ARCHES. *International Journal of Structural Stability and Dynamics*, **2002**, 02, 295-313	1.9	1
6	Acoustic emission of retrofitted fiber-wrapped columns **1998**,		1
5	Experimental and numerical study of flexural properties in UHPFRC beams with and without an initial notch. *Construction and Building Materials*, **2021**, 268, 121196	6.7	1
4	Accelerated testing of super lightweight UHPC waffle deck under heavy vehicle simulator. *Bridge Structures*, **2021**, 16, 61-74	0.7	0
3	Fatigue Behavior of Prestressed Tubular Bridge Deck of Fiber-Reinforced Polymer. *Transportation Research Record*, **2004**, 1892, 246-255	1.7	
2	Connections between Simply Supported Concrete Beams Made Continuous: Results of NCHRP Project 12-53. *Transportation Research Record*, **2005**, 1928, 126-133	1.7	
1	Integration of Non-Destructive Testing In Concrete Education. *Journal of Engineering Education*, **2001**, 90, 219-222	2.3	