Rami Antoun Hawileh

List of Publications by Year
in descending order

81 papers	2,320 citations	185998 28 h-index	223531 46 g-index
82 all docs	82 docs citations	82 times ranked	1153 citing authors

#	Article	IF	Citations
1	Effect of FRP Anchor Inclination Angle on Shear Strengthening of Reinforced Concrete T-beams. Lecture Notes in Civil Engineering, 2022, , 2169-2179.	0.3	2
2	Heat Transfer Analysis of Reinforced Concrete Walls in ANSYS and ABAQUS: A Comparative Study. , 2022, , .		1
3	Finite Element Modeling and Prediction of Tensile Behavior of PE-ECC Dogbones. , 2022, , .		1
4	Nonlinear Finite Element Analysis (NLFEA) of Pre-stressed RC Beams Reinforced with Iron-Based Shape Memory Alloy (Fe-SMA). , 2022, , .		8
5	Finite Element Modeling of Engineered Cementitious Composite (ECC) Prisms and Beams. , 2022, , .		2
6	Flexural behavior of RC beams externally bonded with polyethylene terephthalate (PET) fiber reinforced polymer (FRP) laminates. Engineering Structures, 2022, 256, 114036.	2.6	30
7	Contribution of Longitudinal NSM-CFRP Bars on the Shear Strength of RC Beams with Varying Depths and Concrete Strengths. Journal of Composites for Construction, 2022, 26, .	1.7	3
8	Models for Predicting Strength of RC Columns Strengthened with NSM-CFRP Strips and CFRP-Fabric Wraps. Procedia Structural Integrity, 2022, 37, 660-667.	0.3	2
9	Comparative analysis of design guidelines for FRP contribution to shear capacity of strengthened RC beams. Procedia Structural Integrity, 2022, 37, 359-366.	0.3	5
10	Evaluation on the effect of anchor embedment depth on the flexural capacity of concrete prisms. Procedia Structural Integrity, 2022, 37, 367-374.	0.3	2
11	Behavior of Reinforced Concrete Beams Strengthened in Flexure using Externally Bonded Aluminum Alloy Plates. Procedia Structural Integrity, 2022, 37, 652-659.	0.3	1
12	Short-term and long-term behavior of RC beams strengthened by galvanized steel mesh laminate. Construction and Building Materials, 2022, 340, 127763.	3.2	2
13	FEA Investigation of Elastic Buckling for Functionally Graded Material (FGM) Thin Plates with Different Hole Shapes under Uniaxial Loading. Buildings, 2022, 12, 802.	1.4	11
14	Influence of nanomaterials on the workability and compressive strength of cement-based concrete. Materials Today: Proceedings, 2022, 65, 2073-2076.	0.9	16
15	Modeling Strategies of Finite Element Simulation of Reinforced Concrete Beams Strengthened with FRP: A Review. Journal of Composites Science, 2021, 5, 19.	1.4	53
16	Durability of Reinforced Concrete Beams Externally Strengthened with CFRP Laminates under Harsh Climatic Conditions. Journal of Composites for Construction, 2021, 25, .	1.7	15
17	RC Columns Strengthened with NSM-CFRP Strips and CFRP Wraps under Axial and Uniaxial Bending: Experimental Investigation and Capacity Models. Journal of Composites for Construction, 2021, 25, .	1.7	14
18	Flexural strengthening of RC beams using aluminum alloy plates with mechanically-fastened anchorage systems: An experimental investigation. Engineering Structures, 2021, 234, 111969.	2.6	15

#	Article	IF	Citations
19	Mechanical Properties of Strengthening 5083-H111 Aluminum Alloy Plates at Elevated Temperatures. Infrastructures, 2021, 6, 87.	1.4	6
20	Durability of plain concrete prism strengthened with galvanized steel mesh and CFRP laminates under harsh environmental conditions. Construction and Building Materials, 2021, 286, 122904.	3.2	5
21	Shear Strengthening of Reinforced Concrete T-Beams with Anchored CFRP Laminates. Journal of Composites for Construction, 2021, 25, .	1.7	18
22	Biomass ashes from agricultural wastes as supplementary cementitious materials or aggregate replacement in cement/geopolymer concrete: A comprehensive review. Journal of Building Engineering, 2021, 40, 102332.	1.6	88
23	Shear behavior of RC T-beams externally strengthened with anchored high modulus carbon fiber-reinforced polymer (CFRP) laminates. Composite Structures, 2021, 272, 114198.	3.1	35
24	Nonlinear finite element models of reinforced concrete beams strengthened in bending with mechanically fastened aluminum alloy plates. Computers and Structures, 2021, 253, 106573.	2.4	6
25	StructuresNet and FireNet: Benchmarking databases and machine learning algorithms in structural and fire engineering domains. Journal of Building Engineering, 2021, 44, 102977.	1.6	26
26	Assessment of Effect of Strain Amplitude and Strain Ratio on Energy Dissipation Using Machine Learning. Lecture Notes in Civil Engineering, 2021, , 98-108.	0.3	3
27	Prediction of shear strength and behavior of RC beams strengthened with externally bonded FRP sheets using machine learning techniques. Composite Structures, 2020, 234, 111698.	3.1	85
28	Experimental and Analytical Investigations of the Use of Groove-Epoxy Anchorage System for Shear Strengthening of RC Beams Using CFRP Laminates. Materials, 2020, 13, 4350.	1.3	8
29	Assessment of compressive strength of Ultra-high Performance Concrete using deep machine learning techniques. Applied Soft Computing Journal, 2020, 95, 106552.	4.1	101
30	Behavior of RC Beams externally strengthened with GSM & CFRP sheets. , 2020, , .		1
31	Experimental Investigation and Modeling of the Thermal Effect on the Mechanical Properties of Polyethylene-Terephthalate FRP Laminates. Journal of Materials in Civil Engineering, 2020, 32, .	1.3	8
32	Durability of reinforced concrete beams strengthened by galvanized steel mesh-epoxy systems under harsh environmental conditions. Composite Structures, 2020, 249, 112547.	3.1	21
33	Performance of preloaded CFRP-strengthened fiber reinforced concrete beams. Composite Structures, 2020, 244, 112262.	3.1	33
34	Shear strengthening of reinforced concrete T-beams using CFRP laminates anchored with bent CFRP splay anchors. Procedia Structural Integrity, 2020, 28, 811-819.	0.3	17
35	Flexural Strengthening of Reinforced Concrete Beams with Externally Bonded Hybrid Systems. Procedia Structural Integrity, 2020, 28, 2312-2319.	0.3	22
36	Use of Bore-Epoxy Anchorage System with CFRP Sheets for Shear Strengthening of RC Beams. Procedia Structural Integrity, 2020, 28, 2342-2349.	0.3	5

#	Article	IF	Citations
37	Bond stress and behavior of interface between untreated aluminum alloy surface and concrete. Procedia Structural Integrity, 2020, 28, 1295-1302.	0.3	2
38	Effect of U-wrap anchors on the strength and ductility of externally bonded RC beams with mortar bonded GSM sheets. Procedia Structural Integrity, 2020, 28, 986-993.	0.3	4
39	Shear Behavior of RC Beams Cast with LAVA Lightweight Aggregates. , 2019, , .		0
40	Performance of hybrid carbon and basalt FRP sheets in strengthening concrete beams in flexure. Composite Structures, 2019, 227, 111337.	3.1	72
41	The flexural behavior of bolting and bonding Aluminum Alloy plates to RC beams. Procedia Structural Integrity, 2019, 17, 395-402.	0.3	10
42	Use of Aluminum Alloy Plates as Externally Bonded Shear Reinforcement for R/C Beams. Procedia Structural Integrity, 2019, 17, 403-410.	0.3	10
43	Finite Element Modelling of Aluminum Alloy Plated Beams. , 2019, , .		3
44	Behavior of RC Beams externally strengthened with Mortar bonded Steel Mesh. , 2019, , .		6
45	Shear Strengthening of Reinforced Concrete Beams Using CFRP Wraps. Procedia Structural Integrity, 2019, 17, 214-221.	0.3	52
46	Predicting the Shear Capacity of FRP in Shear Strengthened RC Beams using ANN and NID. , 2019, , .		7
47	Finite Element Modeling of Single Shear Pullout Specimens and Flexural Prisms. , 2019, , .		1
48	Bond behavior of Galvanized Steel Mesh to concrete. , 2018, , .		4
49	Using bore-epoxy anchorage to delay debonding of CFRP plates strengthened concrete beams. , 2018, , .		4
50	Reinforced concrete beams externally strengthened in flexure using hybrid systems. , 2018, , .		6
51	Performance of reinforced concrete beams cast with different percentages of GGBS replacement to cement. Archives of Civil and Mechanical Engineering, 2017, 17, 511-519.	1.9	66
52	Experimental investigations of repair of pre-damaged steel-concrete composite beams using CFRP laminates and mechanical anchors. Thin-Walled Structures, 2017, 112, 107-117.	2.7	33
53	Modeling and simulation of bond-slip behavior of Aluminum Alloy plates adhesively bonded to concrete. , 2017, , .		7
54	Flexural behavior of reinforced concrete beams strengthened with externally bonded Aluminum Alloy plates. Engineering Structures, 2017, 147, 473-485.	2.6	66

#	Article	IF	Citations
55	Experimental investigation of bond-slip behavior of aluminum plates adhesively bonded to concrete. Journal of Adhesion Science and Technology, 2017, 31, 82-99.	1.4	33
56	Thermal analysis of GFRP-reinforced continuous concrete decks subjected to top fire. International Journal of Advanced Structural Engineering, 2017, 9, 315-323.	1.3	10
57	Models for predicting elastic modulus and tensile strength of carbon, basalt and hybrid carbon-basalt FRP laminates at elevated temperatures. Construction and Building Materials, 2016, 114, 364-373.	3.2	58
58	Shear strengthening of reinforced concrete beams using externally-bonded aluminum alloy plates: An experimental study. Construction and Building Materials, 2016, 128, 24-37.	3.2	55
59	Effect of Longitudinal Carbon Fiber-Reinforced Polymer Plates on Shear Strength of Reinforced Concrete Beams. ACI Structural Journal, 2016, 113, .	0.3	31
60	Durability of the Bond between CFRP Plates and Concrete Exposed to Harsh Environments. Journal of Materials in Civil Engineering, 2015, 27, .	1.3	41
61	Temperature effect on the mechanical properties of carbon, glass and carbon–glass FRP laminates. Construction and Building Materials, 2015, 75, 342-348.	3.2	142
62	Prediction of minimum factor of safety against slope failure in clayey soils using artificial neural network. Environmental Earth Sciences, 2015, 73, 5463-5477.	1.3	60
63	CFRP Mechanical Anchorage for Externally Strengthened RC Beams under Flexure. Physics Procedia, 2014, 55, 10-16.	1.2	72
64	Performance of RC T-Beams Externally Strengthened with CFRP Laminates under Elevated Temperatures. Journal of Structural Fire Engineering, 2014, 5, 1-24.	0.4	17
65	Behavior of reinforced concrete beams strengthened with externally bonded hybrid fiber reinforced polymer systems. Materials & Design, 2014, 53, 972-982.	5.1	210
66	Optimum seismic design of unbonded post-tensioned precast concrete walls using ANN. Computers and Concrete, 2014, 13, 547-567.	0.7	14
67	Finite element simulation of reinforced concrete beams externally strengthened with short-length CFRP plates. Composites Part B: Engineering, 2013, 45, 1722-1730.	5.9	95
68	An efficient design procedure for flexural strengthening of RC beams based on ACI 440.2R-08. Composites Part B: Engineering, 2013, 49, 71-79.	5.9	26
69	Artificial Neural Network Predictions of Fatigue Life of Steel Bars Based on Hysteretic Energy. Journal of Computing in Civil Engineering, 2013, 27, 489-496.	2.5	28
70	Nonlinear finite element modeling of concrete deep beams with openings strengthened with externally-bonded composites. Materials & Design, 2012, 42, 378-387.	5.1	69
71	Nonlinear finite element modeling of RC beams strengthened with NSM FRP rods. Construction and Building Materials, 2012, 27, 461-471.	3.2	92
72	Experimental investigation of inelastic buckling of built-up steel columns. Steel and Composite Structures, 2012, 13, 295-308.	1.3	2

#	Article	IF	Citations
73	Effects of Ratio of CFRP Plate Length to Shear Span and End Anchorage on Flexural Behavior of SCC RC Beams. Journal of Composites for Construction, 2011, 15, 908-919.	1.7	93
74	Prediction of FRP-concrete ultimate bond strength using Artificial Neural Network. , 2011, , .		16
75	Modeling and simulation of low-cycle fatigue life of steel reinforcing bars using artificial neural network. Journal of the Franklin Institute, 2011, 348, 1393-1403.	1.9	45
76	Behavior of Corroded Steel Reinforcing Bars Under Monotonic and Cyclic Loadings. Mechanics of Advanced Materials and Structures, 2011, 18, 218-224.	1.5	33
77	Modeling of nonlinear cyclic response of shear-deficient RC T-beams strengthened with side bonded CFRP fabric strips. Computers and Concrete, 2011, 8, 193-206.	0.7	33
78	Non-dimensional design charts for unbonded, post-tensioned, split precast concrete walls. PCI Journal, 2010, 55, 78-99.	0.4	11
79	Comparison between ACI 318-05 and Eurocode 2 (EC2-94) in flexural concrete design. Structural Engineering and Mechanics, 2009, 32, 705-724.	1.0	8
80	Flaw Evaluations Using Master Curve Methodology. , 2007, , .		0
81	Enhancing fire resistance of reinforced concrete beams through sacrificial reinforcement. Architecture, Structures and Construction, 0, , .	0.7	1