

Rami Antoun Hawileh

List of Publications by Year in descending order

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81
papers

2,320
citations

186209

28
h-index

223716

46
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82
all docs

82
docs citations

82
times ranked

1153
citing authors

#	ARTICLE	IF	CITATIONS
1	Behavior of reinforced concrete beams strengthened with externally bonded hybrid fiber reinforced polymer systems. <i>Materials & Design</i> , 2014, 53, 972-982.	5.1	210
2	Temperature effect on the mechanical properties of carbon, glass and carbon-glass FRP laminates. <i>Construction and Building Materials</i> , 2015, 75, 342-348.	3.2	142
3	Assessment of compressive strength of Ultra-high Performance Concrete using deep machine learning techniques. <i>Applied Soft Computing Journal</i> , 2020, 95, 106552.	4.1	101
4	Finite element simulation of reinforced concrete beams externally strengthened with short-length CFRP plates. <i>Composites Part B: Engineering</i> , 2013, 45, 1722-1730.	5.9	95
5	Effects of Ratio of CFRP Plate Length to Shear Span and End Anchorage on Flexural Behavior of SCC RC Beams. <i>Journal of Composites for Construction</i> , 2011, 15, 908-919.	1.7	93
6	Nonlinear finite element modeling of RC beams strengthened with NSM FRP rods. <i>Construction and Building Materials</i> , 2012, 27, 461-471.	3.2	92
7	Biomass ashes from agricultural wastes as supplementary cementitious materials or aggregate replacement in cement/geopolymer concrete: A comprehensive review. <i>Journal of Building Engineering</i> , 2021, 40, 102332.	1.6	88
8	Prediction of shear strength and behavior of RC beams strengthened with externally bonded FRP sheets using machine learning techniques. <i>Composite Structures</i> , 2020, 234, 111698.	3.1	85
9	CFRP Mechanical Anchorage for Externally Strengthened RC Beams under Flexure. <i>Physics Procedia</i> , 2014, 55, 10-16.	1.2	72
10	Performance of hybrid carbon and basalt FRP sheets in strengthening concrete beams in flexure. <i>Composite Structures</i> , 2019, 227, 111337.	3.1	72
11	Nonlinear finite element modeling of concrete deep beams with openings strengthened with externally-bonded composites. <i>Materials & Design</i> , 2012, 42, 378-387.	5.1	69
12	Performance of reinforced concrete beams cast with different percentages of GGBS replacement to cement. <i>Archives of Civil and Mechanical Engineering</i> , 2017, 17, 511-519.	1.9	66
13	Flexural behavior of reinforced concrete beams strengthened with externally bonded Aluminum Alloy plates. <i>Engineering Structures</i> , 2017, 147, 473-485.	2.6	66
14	Prediction of minimum factor of safety against slope failure in clayey soils using artificial neural network. <i>Environmental Earth Sciences</i> , 2015, 73, 5463-5477.	1.3	60
15	Models for predicting elastic modulus and tensile strength of carbon, basalt and hybrid carbon-basalt FRP laminates at elevated temperatures. <i>Construction and Building Materials</i> , 2016, 114, 364-373.	3.2	58
16	Shear strengthening of reinforced concrete beams using externally-bonded aluminum alloy plates: An experimental study. <i>Construction and Building Materials</i> , 2016, 128, 24-37.	3.2	55
17	Modeling Strategies of Finite Element Simulation of Reinforced Concrete Beams Strengthened with FRP: A Review. <i>Journal of Composites Science</i> , 2021, 5, 19.	1.4	53
18	Shear Strengthening of Reinforced Concrete Beams Using CFRP Wraps. <i>Procedia Structural Integrity</i> , 2019, 17, 214-221.	0.3	52

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19	Modeling and simulation of low-cycle fatigue life of steel reinforcing bars using artificial neural network. <i>Journal of the Franklin Institute</i> , 2011, 348, 1393-1403.	1.9	45
20	Durability of the Bond between CFRP Plates and Concrete Exposed to Harsh Environments. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, .	1.3	41
21	Shear behavior of RC T-beams externally strengthened with anchored high modulus carbon fiber-reinforced polymer (CFRP) laminates. <i>Composite Structures</i> , 2021, 272, 114198.	3.1	35
22	Behavior of Corroded Steel Reinforcing Bars Under Monotonic and Cyclic Loadings. <i>Mechanics of Advanced Materials and Structures</i> , 2011, 18, 218-224.	1.5	33
23	Experimental investigations of repair of pre-damaged steel-concrete composite beams using CFRP laminates and mechanical anchors. <i>Thin-Walled Structures</i> , 2017, 112, 107-117.	2.7	33
24	Experimental investigation of bond-slip behavior of aluminum plates adhesively bonded to concrete. <i>Journal of Adhesion Science and Technology</i> , 2017, 31, 82-99.	1.4	33
25	Performance of preloaded CFRP-strengthened fiber reinforced concrete beams. <i>Composite Structures</i> , 2020, 244, 112262.	3.1	33
26	Modeling of nonlinear cyclic response of shear-deficient RC T-beams strengthened with side bonded CFRP fabric strips. <i>Computers and Concrete</i> , 2011, 8, 193-206.	0.7	33
27	Effect of Longitudinal Carbon Fiber-Reinforced Polymer Plates on Shear Strength of Reinforced Concrete Beams. <i>ACI Structural Journal</i> , 2016, 113, .	0.3	31
28	Flexural behavior of RC beams externally bonded with polyethylene terephthalate (PET) fiber reinforced polymer (FRP) laminates. <i>Engineering Structures</i> , 2022, 256, 114036.	2.6	30
29	Artificial Neural Network Predictions of Fatigue Life of Steel Bars Based on Hysteretic Energy. <i>Journal of Computing in Civil Engineering</i> , 2013, 27, 489-496.	2.5	28
30	An efficient design procedure for flexural strengthening of RC beams based on ACI 440.2R-08. <i>Composites Part B: Engineering</i> , 2013, 49, 71-79.	5.9	26
31	StructuresNet and FireNet: Benchmarking databases and machine learning algorithms in structural and fire engineering domains. <i>Journal of Building Engineering</i> , 2021, 44, 102977.	1.6	26
32	Flexural Strengthening of Reinforced Concrete Beams with Externally Bonded Hybrid Systems. <i>Procedia Structural Integrity</i> , 2020, 28, 2312-2319.	0.3	22
33	Durability of reinforced concrete beams strengthened by galvanized steel mesh-epoxy systems under harsh environmental conditions. <i>Composite Structures</i> , 2020, 249, 112547.	3.1	21
34	Shear Strengthening of Reinforced Concrete T-Beams with Anchored CFRP Laminates. <i>Journal of Composites for Construction</i> , 2021, 25, .	1.7	18
35	Performance of RC T-Beams Externally Strengthened with CFRP Laminates under Elevated Temperatures. <i>Journal of Structural Fire Engineering</i> , 2014, 5, 1-24.	0.4	17
36	Shear strengthening of reinforced concrete T-beams using CFRP laminates anchored with bent CFRP splay anchors. <i>Procedia Structural Integrity</i> , 2020, 28, 811-819.	0.3	17

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37	Prediction of FRP-concrete ultimate bond strength using Artificial Neural Network. , 2011, , .		16
38	Influence of nanomaterials on the workability and compressive strength of cement-based concrete. Materials Today: Proceedings, 2022, 65, 2073-2076.	0.9	16
39	Durability of Reinforced Concrete Beams Externally Strengthened with CFRP Laminates under Harsh Climatic Conditions. Journal of Composites for Construction, 2021, 25, .	1.7	15
40	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
41	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
42	Optimum seismic design of unbonded post-tensioned precast concrete walls using ANN. Computers and Concrete, 2014, 13, 547-567.	0.7	14
43	Non-dimensional design charts for unbonded, post-tensioned, split precast concrete walls. PCI Journal, 2010, 55, 78-99.	0.4	11
44	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
45	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
46	The flexural behavior of bolting and bonding Aluminum Alloy plates to RC beams. Procedia Structural Integrity, 2019, 17, 395-402.	0.3	10
47	Use of Aluminum Alloy Plates as Externally Bonded Shear Reinforcement for R/C Beams. Procedia Structural Integrity, 2019, 17, 403-410.	0.3	10
48	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
49	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
50	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
51	Nonlinear Finite Element Analysis (NLFEA) of Pre-stressed RC Beams Reinforced with Iron-Based Shape Memory Alloy (Fe-SMA). , 2022, , .		8
52	Modeling and simulation of bond-slip behavior of Aluminum Alloy plates adhesively bonded to concrete. , 2017, , .		7
53	Predicting the Shear Capacity of FRP in Shear Strengthened RC Beams using ANN and NID. , 2019, , .		7
54	Reinforced concrete beams externally strengthened in flexure using hybrid systems. , 2018, , .		6

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55	Behavior of RC Beams externally strengthened with Mortar bonded Steel Mesh. , 2019, , .		6
56	Mechanical Properties of Strengthening 5083-H111 Aluminum Alloy Plates at Elevated Temperatures. Infrastructures, 2021, 6, 87.	1.4	6
57	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
58	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
59	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
60	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
61	Bond behavior of Galvanized Steel Mesh to concrete. , 2018, , .		4
62	Using bore-epoxy anchorage to delay debonding of CFRP plates strengthened concrete beams. , 2018, , .		4
63	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
64	Finite Element Modelling of Aluminum Alloy Plated Beams. , 2019, , .		3
65	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
66	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
67	Bond stress and behavior of interface between untreated aluminum alloy surface and concrete. Procedia Structural Integrity, 2020, 28, 1295-1302.	0.3	2
68	Experimental investigation of inelastic buckling of built-up steel columns. Steel and Composite Structures, 2012, 13, 295-308.	1.3	2
69	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
70	Finite Element Modeling of Engineered Cementitious Composite (ECC) Prisms and Beams. , 2022, , .		2
71	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
72	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

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73	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
74	Finite Element Modeling of Single Shear Pullout Specimens and Flexural Prisms. , 2019, , .		1
75	Behavior of RC Beams externally strengthened with GSM & CFRP sheets. , 2020, , .		1
76	Heat Transfer Analysis of Reinforced Concrete Walls in ANSYS and ABAQUS: A Comparative Study. , 2022, , .		1
77	Finite Element Modeling and Prediction of Tensile Behavior of PE-ECC Dogbones. , 2022, , .		1
78	Behavior of Reinforced Concrete Beams Strengthened in Flexure using Externally Bonded Aluminum Alloy Plates. Procedia Structural Integrity, 2022, 37, 652-659.	0.3	1
79	Enhancing fire resistance of reinforced concrete beams through sacrificial reinforcement. Architecture, Structures and Construction, 0, , .	0.7	1
80	Shear Behavior of RC Beams Cast with LAVA Lightweight Aggregates. , 2019, , .		0
81	Flaw Evaluations Using Master Curve Methodology. , 2007, , .		0