

Rajai Z Al-Rousan

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

1,226
citations

361413

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docs citations

83
times ranked

511
citing authors

#	ARTICLE	IF	CITATIONS
1	Cyclic behavior of alkali-silica reaction-damaged reinforced concrete beam-column joints strengthened with FRP composites. Case Studies in Construction Materials, 2022, 16, e00869.	1.7	2
2	The behavior heated-damaged reinforced concrete beams retrofitted with different CFRP strip length and number of transverse groove. Case Studies in Construction Materials, 2022, 16, e00896.	1.7	6
3	NLFEA of Sulfate-Damaged Circular CFT Steel Columns Confined with CFRP Composites and Subjected to Axial and Cyclic Lateral Loads. Buildings, 2022, 12, 296.	3.1	13
4	Shear response of RC beams encompassing hybrid CFRP strips and steel stirrups: Beam depth effect. Structures, 2022, 38, 781-796.	3.6	3
5	Impact of sulfate damage on the behavior of full-scale concrete bridge deck slabs reinforced with FRP bars. Case Studies in Construction Materials, 2022, 16, e01030.	1.7	1
6	Cyclic lateral behavior of NLFEA heat-damaged circular CFT steel columns confined at the end with CFRP composites. Case Studies in Construction Materials, 2022, 17, e01223.	1.7	2
7	Impact of elevated temperature on the behavior of full-scale concrete bridge deck slabs reinforced with GFRP bars. Structures, 2022, 43, 621-634.	3.6	3
8	Vibration Serviceability Investigation of a Curved Footbridge. Practice Periodical on Structural Design and Construction, 2022, 27, .	1.3	2
9	Hybrid CFRP-steel for enhancing the flexural behavior of reinforced concrete beams. Journal of King Saud University, Engineering Sciences, 2021, 33, 459-470.	2.0	4
10	The extrema point deviatoric moment component. Ain Shams Engineering Journal, 2021, 12, 341-354.	6.1	0
11	Behavior of Auxetic Steel Wire RC Columns Exposed to Elevated Temperature. Latin American Journal of Solids and Structures, 2021, 18, .	1.0	6
12	Integration of CFRP strips as an internal shear reinforcement in reinforced concrete beams exposed to elevated temperature. Case Studies in Construction Materials, 2021, 14, e00508.	1.7	0
13	Response of interior beam-column connections integrated with various schemes of CFRP composites. Case Studies in Construction Materials, 2021, 14, e00488.	1.7	2
14	Impact of elevated temperature and anchored grooves on the shear behavior of reinforced concrete beams strengthened with CFRP composites. Case Studies in Construction Materials, 2021, 14, e00487.	1.7	6
15	Integration of FRP sheet as internal reinforcement in reinforced concrete beam-column joints exposed to sulfate damaged. Structures, 2021, 31, 891-908.	3.6	13
16	Anchoring of the main CFRP sheets with transverse CFRP strips for optimum upgrade of RC Beams: Parametric experimental study. Construction and Building Materials, 2021, 293, 123525.	7.2	18
17	Behavior of heated damaged reinforced concrete beam-column joints strengthened with FRP. Case Studies in Construction Materials, 2021, 15, e00584.	1.7	6
18	The behavior of heated damaged shear-deficient RC beams reinforced internally with welded wire mesh. Case Studies in Construction Materials, 2021, 15, e00687.	1.7	2

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19	The impact of the welded wire mesh as internal reinforcement on the flexural behavior of RC beams exposed to elevated temperature. <i>Case Studies in Construction Materials</i> , 2021, 15, e00618.	1.7	2
20	Numerical simulation of the influence of bond strength degradation on the behavior of reinforced concrete beam-column joints externally strengthened with FRP sheets. <i>Case Studies in Construction Materials</i> , 2021, 15, e00567.	1.7	7
21	Recycling of pre-treated medical waste fly ash in mortar mixtures. <i>Journal of Material Cycles and Waste Management</i> , 2020, 22, 207-220.	3.0	14
22	Finite-element modelling of concrete-filled steel tube columns wrapped with CFRP. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2020, 173, 844-857.	0.8	16
23	Integration of CFRP strips as an internal shear reinforcement in reinforced concrete beams. <i>Structures</i> , 2020, 23, 13-19.	3.6	14
24	Experimental study on anchoring of FRP-strengthened concrete beams. <i>Structures</i> , 2020, 23, 26-33.	3.6	16
25	Precise finite element modelling of the bond-slip contact behavior between CFRP composites and concrete. <i>Construction and Building Materials</i> , 2020, 240, 117943.	7.2	18
26	Optimum Endurance Time of Reinforced Concrete One Way Slab Subjected to Fire. <i>Procedia Manufacturing</i> , 2020, 44, 520-527.	1.9	5
27	Predicting the bond-slip relationship between concrete and CFRP using anchoring holes technique. <i>Case Studies in Construction Materials</i> , 2020, 13, e00462.	1.7	4
28	Consequence of anchoring holes technique on the bond behavior between CFRP composites and heat-damaged concrete. <i>Structures</i> , 2020, 27, 1903-1918.	3.6	18
29	Impact of anchored holes technique on behavior of reinforced concrete beams strengthened with different CFRP sheet lengths and widths. <i>Case Studies in Construction Materials</i> , 2020, 13, e00405.	1.7	6
30	Nonlinear finite element analysis of full-scale concrete bridge deck slabs reinforced with FRP bars. <i>Structures</i> , 2020, 27, 1820-1831.	3.6	13
31	An Anchoring Groove Technique to Enhance the Bond Behavior between Heat-Damaged Concrete and CFRP Composites. <i>Buildings</i> , 2020, 10, 232.	3.1	21
32	Anchoring holes configured to enhance the bond-slip behavior between CFRP composites and concrete. <i>Construction and Building Materials</i> , 2020, 250, 118905.	7.2	20
33	Control of Vibrations of Common Pedestrian Bridges in Jordan Using Tuned Mass Dampers. <i>Procedia Manufacturing</i> , 2020, 44, 36-43.	1.9	11
34	Behavior of Prefabricated Full-Depth Precast Concrete Bridge Deck Panel System: Optimum Prestress Level. <i>Procedia Manufacturing</i> , 2020, 44, 607-614.	1.9	4
35	Predicting the Optimum Shear Capacity of Reinforced Concrete Beams Externally Strengthened With CFRP Composites. <i>Procedia Manufacturing</i> , 2020, 44, 631-638.	1.9	6
36	Operational Modal Analysis of the Curved JUST Footbridge Induced by Human. <i>Procedia Manufacturing</i> , 2020, 44, 599-606.	1.9	3

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37	Behavior of Circular Reinforced Concrete Columns Confined with CFRP Composites. <i>Procedia Manufacturing</i> , 2020, 44, 623-630.	1.9	15
38	Response of Reinforced Concrete Slabs Strengthened with CFRP. <i>Journal of Engineering Science and Technology Review</i> , 2020, 13, 125-129.	0.4	1
39	The Optimum Reinforced Concrete Deck Stiffness of Cable-Stayed Bridge Decks. <i>Procedia Manufacturing</i> , 2020, 44, 342-349.	1.9	1
40	Impact of curvature type on the behavior of slender reinforced concrete rectangular column confined with CFRP composite. <i>Composites Part B: Engineering</i> , 2019, 173, 106939.	12.0	22
41	Consequence of surface preparation techniques on the bond behavior between concrete and CFRP composites. <i>Construction and Building Materials</i> , 2019, 212, 362-374.	7.2	18
42	Bond-slip behavior between fiber reinforced concrete and CFRP composites. <i>Ain Shams Engineering Journal</i> , 2019, 10, 359-367.	6.1	31
43	The Impact of Asphalt Wearing Surface Thickness on Response of Two-Span Continuous Cast-in-Place Prestressed Concrete Box Girder Highway Bridge. <i>Journal of Engineering Science and Technology Review</i> , 2019, 12, 173-177.	0.4	0
44	Impact of bonded carbon fibre composite on the shear strength of reinforced concrete beams. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2018, 171, 364-379.	0.8	8
45	Shear Repairing and Strengthening of Reinforced Concrete Beams Using SIFCON. <i>Structures</i> , 2018, 14, 389-399.	3.6	7
46	Empirical and NLFEA prediction of bond-slip behavior between DSSF concrete and anchored CFRP composites. <i>Construction and Building Materials</i> , 2018, 169, 530-542.	7.2	33
47	Stress-strain model and design guidelines for CFRP confined circular reinforced concrete columns. <i>Polymer Composites</i> , 2018, 39, 2722-2733.	4.6	16
48	Behavior of plain concrete beams with DSSF strengthened in flexure with anchored CFRP sheets—Effects of DSSF content on the bonding length of CFRP sheets. <i>Case Studies in Construction Materials</i> , 2018, 9, e00195.	1.7	6
49	Behavior of macro synthetic fiber concrete beams strengthened with different CFRP composite configurations. <i>Journal of Building Engineering</i> , 2018, 20, 595-608.	3.4	31
50	Nonlinear Finite Element Analysis of B-C Connections: Influence of the Column Axial Load, Jacket Thickness, and Fiber Dosage. <i>Structures</i> , 2018, 16, 50-62.	3.6	25
51	Failure Analysis of Polypropylene Fiber Reinforced Concrete Two-Way Slabs Subjected to Static and Impact Load Induced by Free Falling Mass. <i>Latin American Journal of Solids and Structures</i> , 2018, 15, .	1.0	12
52	Novel Nonlinear Model for Analysis of RC Slabs with Various Boundary Conditions Under Monotonic Loading. <i>International Review of Civil Engineering</i> , 2018, 9, 218.	0.1	1
53	Influence of synthetic fibers on the shear behavior of lightweight concrete beams. <i>Advances in Structural Engineering</i> , 2017, 20, 1671-1683.	2.4	32
54	Flexural behavior of RC beams externally strengthened with CFRP composites exposed to severe environment conditions. <i>KSCE Journal of Civil Engineering</i> , 2017, 21, 2300-2309.	1.9	31

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55	Assessment of shrinkage-induced cracks in restrained and unrestrained cement-based slabs. <i>Construction and Building Materials</i> , 2017, 131, 371-380.	7.2	14
56	Flexural behavior of lightweight concrete beams encompassing various dosages of macro synthetic fibers and steel ratios. <i>Case Studies in Construction Materials</i> , 2017, 7, 280-293.	1.7	12
57	Influence of polypropylene fibers on the flexural behavior of reinforced concrete slabs with different opening shapes and sizes. <i>Structural Concrete</i> , 2017, 18, 986-999.	3.1	28
58	Impact resistance of polypropylene fiber reinforced concrete two-way slabs. <i>Structural Engineering and Mechanics</i> , 2017, 62, 373-380.	1.0	25
59	An anchorage system for CFRP strips bonded to thermally shocked concrete. <i>International Journal of Adhesion and Adhesives</i> , 2016, 71, 10-22.	2.9	33
60	Flexural performance of lightweight reinforced-concrete slabs. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2016, 169, 257-269.	0.8	1
61	Nonlinear finite element analysis of thermoplastic railroad bridge. <i>Journal of Thermoplastic Composite Materials</i> , 2016, 29, 850-866.	4.2	0
62	The effect of beam depth on the shear behavior of reinforced concrete beams externally strengthened with carbon fiber reinforced polymer composites. <i>Advances in Structural Engineering</i> , 2016, 19, 1769-1779.	2.4	29
63	Simulating the response of CFRP strengthened shear-keys in composite concrete bridges. <i>Materials and Design</i> , 2016, 90, 733-744.	7.0	7
64	Satisfactory margin of safety against shear failure of lightweight reinforced concrete beams: 3D finite element modeling. <i>KSCE Journal of Civil Engineering</i> , 2016, 20, 1482-1492.	1.9	1
65	Cylindrical thin-walled concrete structures under lateral loading. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2015, 168, 326-335.	0.8	1
66	Bond slip behaviour between self-compacting concrete and carbon-fibre-reinforced polymer sheets. <i>Magazine of Concrete Research</i> , 2015, 67, 89-103.	2.0	29
67	Finite element analysis of a 2-span pedestrian bridge collapse due to trucks collision. <i>KSCE Journal of Civil Engineering</i> , 2015, 19, 1845-1851.	1.9	5
68	Modifying CFRP concrete bond characteristics from pull-out testing. <i>Magazine of Concrete Research</i> , 2015, 67, 707-717.	2.0	26
69	The optimum overlay thickness of prefabricated full-depth precast concrete bridge deck panel system – 3D non-linear finite element modeling. <i>Engineering Structures</i> , 2015, 100, 264-275.	5.3	4
70	Effect of CFRP Schemes on the Flexural Behavior of RC Beams Modeled by Using a Nonlinear Finite-element Analysis. <i>Mechanics of Composite Materials</i> , 2015, 51, 437-446.	1.4	14
71	Repair of shear-deficient normal weight concrete beams damaged by thermal shock using advanced composite materials. <i>Composites Part B: Engineering</i> , 2015, 70, 20-34.	12.0	28
72	Optimization of the economic practicability of fiber-reinforced polymer (FRP) cable-stayed bridge decks. <i>Bridge Structures</i> , 2014, 10, 129-143.	0.4	3

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73	Repair of shear-deficient and sulfate-damaged reinforced concrete beams using FRP composites. <i>Engineering Structures</i> , 2013, 56, 228-238.	5.3	45
74	Bond-slip behavior between carbon fiber reinforced polymer sheets and heat-damaged concrete. <i>Composites Part B: Engineering</i> , 2013, 45, 1049-1060.	12.0	60
75	NLFEA sulfate-damage reinforced concrete beams strengthened with FRP composites. <i>Composite Structures</i> , 2013, 96, 433-445.	5.8	33
76	Effect of sulfates on bond behavior between carbon fiber reinforced polymer sheets and concrete. <i>Materials & Design</i> , 2013, 43, 237-248.	5.1	50
77	Performance of reinforced concrete slabs strengthened with different types and configurations of CFRP. <i>Composites Part B: Engineering</i> , 2012, 43, 510-521.	12.0	47
78	Fatigue performance of reinforced concrete beams strengthened with CFRP sheets. <i>Construction and Building Materials</i> , 2011, 25, 3520-3529.	7.2	65
79	Experimental and Parametric Study of Circular Short Columns Confined with CFRP Composites. <i>Journal of Composites for Construction</i> , 2009, 13, 135-147.	3.2	71
80	Modeling of Bond Stresses of Overlay“Bridge Deck System. <i>Transportation Research Record</i> , 2009, 2113, 72-82.	1.9	1
81	Composite Behavior of Precast Concrete Full-Depth Panels and Prestressed Girders. <i>PCI Journal</i> , 2006, 51, 132-145.	0.6	10
82	Shear strengthening of high-strength reinforced concrete beams using fibrous composites. <i>Magazine of Concrete Research</i> , 2004, 56, 419-428.	2.0	7
83	Analysis of Rectangular Plates Based on the Hydrostatic Point Phenomenon. , 0, , .		0