

Antonio Nanni

List of Publications by Year in descending order

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123
papers

7,114
citations

57631

44
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62479

80
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127
all docs

127
docs citations

127
times ranked

2948
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural Health Monitoring of FRP-Reinforced Concrete Bridges Using Vibration Responses. Lecture Notes in Civil Engineering, 2023, , 735-744.	0.3	1
2	Bridge load testing and damage evaluation using model updating method. Engineering Structures, 2022, 252, 113648.	2.6	33
3	A review of recent advances in the science and technology of seawater-mixed concrete. Cement and Concrete Research, 2022, 152, 106666.	4.6	78
4	Durability assessment of GFRP rebars in marine environments. Construction and Building Materials, 2022, 329, 127028.	3.2	17
5	Non-destructive testing applications for in-service FRP reinforced/strengthened concrete bridge elements. , 2022, , .		1
6	Innovative Methods for Evaluation of Precast Box-Beam Bridges. , 2022, , .		0
7	Design of Marine Dock Using Concrete Mixed with Seawater and FRP Bars. Journal of Composites for Construction, 2021, 25, 05020006.	1.7	17
8	Durability of GFRP reinforcing bars in seawater concrete. Construction and Building Materials, 2021, 270, 121492.	3.2	41
9	New directions for reinforced concrete coastal structures. Journal of Infrastructure Preservation and Resilience, 2021, 2, .	1.5	15
10	Durability Assessment of 15- to 20-Year-Old GFRP Bars Extracted from Bridges in the US. II: GFRP Bar Assessment. Journal of Composites for Construction, 2021, 25, .	1.7	7
11	Physical, mechanical and durability properties of GFRP bars with modified acrylic resin (modar) matrix. Composite Structures, 2021, 262, 113557.	3.1	15
12	Durability Assessment of 15- to 20-Year-Old GFRP Bars Extracted from Bridges in the US. I: Selected Bridges, Bar Extraction, and Concrete Assessment. Journal of Composites for Construction, 2021, 25, .	1.7	8
13	Condition assessment of concrete and glass fiber reinforced polymer (GFRP) rebar after 18 years of service life. Case Studies in Construction Materials, 2021, 14, e00494.	0.8	13
14	Cost and environmental analyses of reinforcement alternatives for a concrete bridge. Structure and Infrastructure Engineering, 2020, 16, 787-802.	2.0	51
15	Performance of Seawater-Mixed Recycled-Aggregate Concrete. Journal of Materials in Civil Engineering, 2020, 32, .	1.3	26
16	Cost effectiveness of reinforcement alternatives for a concrete water chlorination tank. Journal of Building Engineering, 2020, 27, 100992.	1.6	16
17	Short-term flexural performance of seawater-mixed recycled-aggregate GFRP-reinforced concrete beams. Composite Structures, 2020, 236, 111860.	3.1	23
18	Direct Shear Bond Tests of Fabric-Reinforced Cementitious Matrix Materials. Journal of Composites for Construction, 2020, 24, .	1.7	11

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19	Evaluation of fiber content in GFRP bars using digital image processing. Composites Part B: Engineering, 2020, 200, 108307.	5.9	16
20	Fatigue Behavior of FRCM-Strengthened RC Beams. Journal of Composites for Construction, 2020, 24, .	1.7	3
21	Durability of Commercially Available GFRP Reinforcement in Seawater-Mixed Concrete under Accelerated Aging Conditions. Journal of Composites for Construction, 2020, 24, .	1.7	32
22	Flexural analysis and design of FRCM-strengthened RC beams. Construction and Building Materials, 2020, 244, 118371.	3.2	17
23	Bridge Case Study: What a Contractor Needs to Know on an FRP Reinforcement Project. Journal of Composites for Construction, 2020, 24, .	1.7	7
24	Shear Behaviors of RC Beams Externally Strengthened with Engineered Cementitious Composite Layers. Materials, 2019, 12, 2163.	1.3	20
25	Creep-Rupture Limit for GFRP Bars Subjected to Sustained Loads. Journal of Composites for Construction, 2019, 23, .	1.7	31
26	Hydration, Pore Solution, and Porosity of Cementitious Pastes Made with Seawater. Journal of Materials in Civil Engineering, 2019, 31, .	1.3	65
27	Assessment of reinforced concrete structures in marine environment: a case study. Corrosion Reviews, 2019, 37, 57-69.	1.0	13
28	Soffit and U-Wrap FRCM Strengthening for Reinforced Concrete Beams. ACI Structural Journal, 2019, 116, .	0.3	9
29	Assessment of Design Guidelines of Concrete Columns Reinforced with Glass Fiber-Reinforced Polymer Bars. ACI Structural Journal, 2019, 116, .	0.3	40
30	Shrinkage Behavior of Cementitious Mortars Mixed with Seawater. Advances in Civil Engineering Materials, 2019, 8, 64-78.	0.2	12
31	Life-Cycle Cost and Life-Cycle Assessment Analysis at the Design Stage of a Fiber-Reinforced Polymer-Reinforced Concrete Bridge in Florida. Advances in Civil Engineering Materials, 2019, 8, 128-151.	0.2	33
32	Culvert Prototype Made with Seawater Concrete: Materials Characterization, Monitoring, and Environmental Impact. Advances in Civil Engineering Materials, 2019, 8, 44-63.	0.2	9
33	Hydration, Strength, and Shrinkage of Cementitious Materials Mixed with Simulated Desalination Brine. Advances in Civil Engineering Materials, 2019, 8, 31-43.	0.2	5
34	The 200-year Bridge Substructure “ Foundations for Resilience and Sustainability. IABSE Symposium Report, 2019, , .	0.0	2
35	Overview of AASHTO Design Specifications for GFRP-RC Bridges 2nd Edition: Toledo Bridge as Case Study.. , 2019, , .		3
36	Post-Fire Behavior of GFRP Bars and GFRP-RC Slabs. Journal of Materials in Civil Engineering, 2018, 30, .	1.3	16

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37	Curvilinear GFRP bars for tunnel segments applications. Composites Part B: Engineering, 2018, 141, 137-147.	5.9	31
38	Fresh and hardened properties of seawater-mixed concrete. Construction and Building Materials, 2018, 190, 276-286.	3.2	190
39	Acceptance Criteria for Tensile Characterization of Fabric-Reinforced Cementitious Matrix Systems for Concrete and Masonry Repair. Journal of Composites for Construction, 2018, 22, .	1.7	53
40	Corrosion-Damaged RC Beams Repaired with Fabric-Reinforced Cementitious Matrix. Journal of Composites for Construction, 2018, 22, .	1.7	34
41	Fatigue and Monotonic Behaviors of Corrosion-Damaged Reinforced Concrete Beams Strengthened with FRCM Composites. Journal of Composites for Construction, 2018, 22, 04018040.	1.7	20
42	Static and Fatigue Performance of FRCM-Strengthened Concrete Beams. Journal of Composites for Construction, 2018, 22, .	1.7	30
43	Microstructure and Mechanical Property Behavior of FRP Reinforcement Autopsied from Bridge Structures Subjected to In Situ Exposure. , 2018, , 585-591.		1
44	Bond Behavior of Near-Surface Mounted FRP Bars to Masonry. Journal of Composites for Construction, 2018, 22, 04018024.	1.7	2
45	Experimental results and modelling of corrosion-damaged concrete beams strengthened with externally-bonded composites. Engineering Structures, 2018, 172, 172-186.	2.6	30
46	Eccentric Behavior of Full-Scale Reinforced Concrete Columns with Glass Fiber-Reinforced Polymer Bars and Ties. ACI Structural Journal, 2018, 115, .	0.3	60
47	In-Plane Performance of Unreinforced Concrete Masonry Strengthened with Prestressed GFRP Bars. Journal of Composites for Construction, 2017, 21, .	1.7	12
48	GFRP Reinforcement in Concrete after 15 Years of Service. Journal of Composites for Construction, 2017, 21, .	1.7	86
49	Precast Concrete Tunnel Segments with GFRP Reinforcement. Journal of Composites for Construction, 2017, 21, .	1.7	38
50	Microstructural investigation of glass fiber reinforced polymer bars. Composites Part B: Engineering, 2017, 110, 388-395.	5.9	19
51	Use of sea-sand and seawater in concrete construction: Current status and future opportunities. Construction and Building Materials, 2017, 155, 1101-1111.	3.2	513
52	Effect of corrosion damage on the flexural performance of RC beams strengthened with FRCM composites. Composite Structures, 2017, 180, 994-1006.	3.1	52
53	Performance of FRCM-Strengthened RC Beams Subject to Fatigue. Journal of Bridge Engineering, 2017, 22, .	1.4	43
54	Repair of Damaged Prestressed Concrete Girders with FRP and FRCM Composites. Journal of Composites for Construction, 2017, 21, .	1.7	29

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55	Effectiveness of Fabric-Reinforced Cementitious Matrix in Strengthening Reinforced Concrete Beams. Journal of Composites for Construction, 2017, 21, .	1.7	86
56	GFRP Reinforcements in Box Culvert Bridge: A Case Study After Two Decades of Service. , 2017, , 75-88.		3
57	Behavior of Tendons with Multiple CFRP Rods. Journal of Structural Engineering, 2016, 142, .	1.7	20
58	Testing Procedures for the Uniaxial Tensile Characterization of Fabric-Reinforced Cementitious Matrix Composites. Journal of Composites for Construction, 2016, 20, .	1.7	127
59	RC beams shear-strengthened with fabric-reinforced-cementitious-matrix (FRCM) composite. International Journal of Advanced Structural Engineering, 2015, 7, 341-352.	1.3	89
60	Effects of Test Parameters on Fracture and Fatigue Characteristics of a SE(T) Steel Specimen. Advances in Structural Engineering, 2014, 17, 1359-1371.	1.2	2
61	Shear strengthening of un-reinforced concrete masonry walls with fabric-reinforced-cementitious-matrix. Construction and Building Materials, 2014, 65, 243-253.	3.2	88
62	Out-of-Plane Behavior of URM Walls Strengthened with Fabric-Reinforced Cementitious Matrix Composite. Journal of Composites for Construction, 2014, 18, .	1.7	88
63	Flexural Strengthening of RC Beams with an Externally Bonded Fabric-Reinforced Cementitious Matrix. Journal of Composites for Construction, 2014, 18, .	1.7	153
64	URM Walls Strengthened with Fabric-Reinforced Cementitious Matrix Composite Subjected to Diagonal Compression. Journal of Composites for Construction, 2014, 18, .	1.7	110
65	In Situ Load Testing of a One-Way Reinforced Concrete Slab per the ACI 437 Standard. Journal of Performance of Constructed Facilities, 2014, 28, 04014022.	1.0	4
66	Acoustic emission monitoring for assessment of prestressed concrete beams. Construction and Building Materials, 2014, 58, 46-53.	3.2	85
67	Design of RC Columns Using Glass FRP Reinforcement. Journal of Composites for Construction, 2013, 17, 294-304.	1.7	110
68	Numerical Approach to the Live Load Factor for RC Structures as a Function of Life-Time. Advances in Structural Engineering, 2013, 16, 1931-1942.	1.2	1
69	Incorporating Expected Life-Time into Live Load Factor for RC Structures Using Reliability Analysis. Advances in Structural Engineering, 2013, 16, 887-898.	1.2	5
70	Tensile behavior of epoxy based FRP composites under extreme service conditions. Composites Part B: Engineering, 2012, 43, 1468-1474.	5.9	64
71	Fiber reinforced cement-based composite system for concrete confinement. Construction and Building Materials, 2012, 32, 55-65.	3.2	108
72	Structural Evaluation of Full-Scale FRP-Confined Reinforced Concrete Columns. Journal of Composites for Construction, 2011, 15, 112-123.	1.7	154

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73	Novel Test Method for Ultimate Hoop-Strain Characterization in FRP Jackets. Journal of Materials in Civil Engineering, 2011, 23, 1633-1641.	1.3	4
74	Recent advances in the development of a self-powered wireless sensor network for structural health prognosis. Proceedings of SPIE, 2011, , .	0.8	2
75	Analysis of RC Hollow Columns Strengthened with GFRP. Journal of Composites for Construction, 2011, 15, 545-556.	1.7	15
76	Single-Parameter Methodology for the Prediction of the Stress-Strain Behavior of FRP-Confined RC Square Columns. Journal of Composites for Construction, 2011, 15, 384-392.	1.7	11
77	Carbon Neutral Off-White Rice Husk Ash as a Partial White Cement Replacement. Journal of Materials in Civil Engineering, 2010, 22, 1078-1083.	1.3	33
78	Connection of Concrete Railing Post and Bridge Deck with Internal FRP Reinforcement. Journal of Bridge Engineering, 2009, 14, 66-76.	1.4	16
79	Interaction diagram methodology for design of FRP-confined reinforced concrete columns. Construction and Building Materials, 2009, 23, 1508-1520.	3.2	67
80	Monte Carlo Simulation of Shear Capacity of URM Walls Retrofitted by Polyurea Reinforced GFRP Grids. Journal of Composites for Construction, 2008, 12, 405-415.	1.7	35
81	Distributed Strain Measurement in Steel Bridge with Fiber Optic Sensors: Validation through Diagnostic Load Test. Journal of Performance of Constructed Facilities, 2008, 22, 264-273.	1.0	58
82	In-Situ Evaluation of Two Concrete Slab Systems. I: Load Determination and Loading Procedure. Journal of Performance of Constructed Facilities, 2008, 22, 207-216.	1.0	23
83	In-Situ Evaluation of Two Concrete Slab Systems. II: Evaluation Criteria and Outcomes. Journal of Performance of Constructed Facilities, 2008, 22, 217-227.	1.0	30
84	Review of Design Guidelines for FRP Confinement of Reinforced Concrete Columns of Noncircular Cross Sections. Journal of Composites for Construction, 2008, 12, 80-92.	1.7	68
85	Flexural Fatigue Behavior of Reinforced Concrete Beams Strengthened with FRP Fabric and Precured Laminate Systems. Journal of Composites for Construction, 2006, 10, 433-442.	1.7	79
86	Thermal effects on bond between FRP rebars and concrete. Composites Part A: Applied Science and Manufacturing, 2006, 37, 1223-1230.	3.8	72
87	Strengthening with FRP bars of URM walls subject to out-of-plane loads. Construction and Building Materials, 2006, 20, 101-110.	3.2	63
88	Design of Concrete Railing Reinforced with Glass Fiber Reinforced Polymer Bars. , 2006, , 1.		1
89	Effectiveness of CFRP Strengthening on Curved Soffit RC Beams. Advances in Structural Engineering, 2005, 8, 55-68.	1.2	54
90	A Brillouin smart FRP material and a strain data post processing software for structural health monitoring through laboratory testing and field application on a highway bridge. , 2005, 5765, 600.		8

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91	Performance of Double-T Prestressed Concrete Beams Strengthened with Steel Reinforcement Polymer. <i>Advances in Structural Engineering</i> , 2005, 8, 427-442.	1.2	33
92	In Situ Load Testing of Parking Garage Reinforced Concrete Slabs: Comparison between 24 h and Cyclic Load Testing. <i>Practice Periodical on Structural Design and Construction</i> , 2005, 10, 40-48.	0.7	18
93	Discontinuous Brillouin strain monitoring of small concrete bridges: comparison between near-to-surface and smart FRP fiber installation techniques. , 2005, , .		19
94	Rehabilitation of Compression Steel Members Using FRP Pipes Filled with Non-Expansive and Expansive Light-Weight Concrete. <i>Advances in Structural Engineering</i> , 2005, 8, 129-142.	1.2	55
95	Shape Effect on the Performance of Carbon Fiber Reinforced Polymer Wraps. <i>Journal of Composites for Construction</i> , 2004, 8, 444-451.	1.7	43
96	Strengthening of RC Members Using Near-Surface Mounted FRP Composites: Design Overview. <i>Advances in Structural Engineering</i> , 2004, 7, 469-483.	1.2	89
97	Renovation of Concrete Water Tank in Chiba Prefecture, Japan. <i>Practice Periodical on Structural Design and Construction</i> , 2004, 9, 237-241.	0.7	8
98	Structural performance of a FRP bridge deck. <i>Construction and Building Materials</i> , 2004, 18, 35-47.	3.2	47
99	Durability of FRP rods for concrete structures. <i>Construction and Building Materials</i> , 2004, 18, 491-503.	3.2	311
100	Shear Strengthening of a PC Bridge Girder with NSM CFRP Rectangular Bars. <i>Advances in Structural Engineering</i> , 2004, 7, 297-309.	1.2	68
101	North American design guidelines for concrete reinforcement and strengthening using FRP: principles, applications and unresolved issues. <i>Construction and Building Materials</i> , 2003, 17, 439-446.	3.2	122
102	Testing and Evaluation of Components for a Composite Bridge Deck. <i>Journal of Reinforced Plastics and Composites</i> , 2003, 22, 441-461.	1.6	18
103	Field Assessment of Unreinforced Masonry Walls Strengthened with Fiber Reinforced Polymer Laminates. <i>Journal of Structural Engineering</i> , 2003, 129, 1047-1056.	1.7	43
104	Financial Viability of Fiber-Reinforced Polymer (FRP) Bridges. <i>Journal of Management in Engineering - ASCE</i> , 2003, 19, 2-8.	2.6	53
105	Fiber-Reinforced Composites for the Strengthening of Masonry Structures. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , 2003, 13, 271-278.	0.5	23
106	Strengthening of Short Shear Span Reinforced Concrete T Joists with Fiber-Reinforced Plastic Composites. <i>Journal of Composites for Construction</i> , 2002, 6, 264-271.	1.7	35
107	Strength and Modulus Degradation of Carbon Fiber-Reinforced Polymer Laminates from Fiber Misalignment. <i>Journal of Materials in Civil Engineering</i> , 2002, 14, 320-326.	1.3	15
108	Rehabilitation of rectangular simply supported RC beams with shear deficiencies using CFRP composites. <i>Construction and Building Materials</i> , 2002, 16, 135-146.	3.2	229

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109	Characterization of FRP Rods as Near-Surface Mounted Reinforcement. Journal of Composites for Construction, 2001, 5, 114-121.	1.7	128
110	Diagnostic Load Testing of Two-Way Posttensioned Concrete Slab. Practice Periodical on Structural Design and Construction, 2001, 6, 73-82.	0.7	2
111	Strengthening of Masonry Structures with FRP Composites. , 2001, , 1.		38
112	Effect of Environmental Pre-Conditioning on Bond of FRP Reinforcement to Concrete. Journal of Reinforced Plastics and Composites, 2001, 20, 881-900.	1.6	19
113	<title>Instrumentation and manufacture of a smart composite bridge for short-span applications</title>. , 2001, 4330, 147.		12
114	Improving shear capacity of existing RC T-section beams using CFRP composites. Cement and Concrete Composites, 2000, 22, 165-174.	4.6	307
115	Strengthening Dapped Ends of Precast Double Tees with Externally Bonded FRP Reinforcement. , 2000, , 1.		5
116	Flexural Strengthening of Bridge Piers Using FRP Composites. , 2000, , 1.		12
117	Deformation in Concrete with External CFRP Sheet Reinforcement. Journal of Composites for Construction, 2000, 4, 85-94.	1.7	26
118	Local Bond-Slip Relationship for FRP Reinforcement in Concrete. Journal of Composites for Construction, 2000, 4, 24-31.	1.7	162
119	Contribution of Externally Bonded FRP to Shear Capacity of RC Flexural Members. Journal of Composites for Construction, 1998, 2, 195-202.	1.7	450
120	Behavior of Precracked RC Beams Strengthened with Carbon FRP Sheets. Journal of Composites for Construction, 1997, 1, 63-70.	1.7	230
121	FRP jacketed concrete under flexure and combined flexure-compression. Construction and Building Materials, 1995, 9, 273-281.	3.2	63
122	FRP jacketed concrete under uniaxial compression. Construction and Building Materials, 1995, 9, 115-124.	3.2	234
123	Flexural Behavior and Design of RC Members Using FRP Reinforcement. Journal of Structural Engineering, 1993, 119, 3344-3359.	1.7	191