

Antonio Nanni

List of Publications by Year in descending order

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123
papers

7,114
citations

57631

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62479

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127
all docs

127
docs citations

127
times ranked

2948
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Use of sea-sand and seawater in concrete construction: Current status and future opportunities. <i>Construction and Building Materials</i> , 2017, 155, 1101-1111. | 3.2 | 513 |
| 2 | Contribution of Externally Bonded FRP to Shear Capacity of RC Flexural Members. <i>Journal of Composites for Construction</i> , 1998, 2, 195-202. | 1.7 | 450 |
| 3 | Durability of FRP rods for concrete structures. <i>Construction and Building Materials</i> , 2004, 18, 491-503. | 3.2 | 311 |
| 4 | Improving shear capacity of existing RC T-section beams using CFRP composites. <i>Cement and Concrete Composites</i> , 2000, 22, 165-174. | 4.6 | 307 |
| 5 | FRP jacketed concrete under uniaxial compression. <i>Construction and Building Materials</i> , 1995, 9, 115-124. | 3.2 | 234 |
| 6 | Behavior of Precracked RC Beams Strengthened with Carbon FRP Sheets. <i>Journal of Composites for Construction</i> , 1997, 1, 63-70. | 1.7 | 230 |
| 7 | 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 |
| 8 | Flexural Behavior and Design of RC Members Using FRP Reinforcement. <i>Journal of Structural Engineering</i> , 1993, 119, 3344-3359. | 1.7 | 191 |
| 9 | Fresh and hardened properties of seawater-mixed concrete. <i>Construction and Building Materials</i> , 2018, 190, 276-286. | 3.2 | 190 |
| 10 | Local Bond-Slip Relationship for FRP Reinforcement in Concrete. <i>Journal of Composites for Construction</i> , 2000, 4, 24-31. | 1.7 | 162 |
| 11 | Structural Evaluation of Full-Scale FRP-Confined Reinforced Concrete Columns. <i>Journal of Composites for Construction</i> , 2011, 15, 112-123. | 1.7 | 154 |
| 12 | Flexural Strengthening of RC Beams with an Externally Bonded Fabric-Reinforced Cementitious Matrix. <i>Journal of Composites for Construction</i> , 2014, 18, . | 1.7 | 153 |
| 13 | Characterization of FRP Rods as Near-Surface Mounted Reinforcement. <i>Journal of Composites for Construction</i> , 2001, 5, 114-121. | 1.7 | 128 |
| 14 | Testing Procedures for the Uniaxial Tensile Characterization of Fabric-Reinforced Cementitious Matrix Composites. <i>Journal of Composites for Construction</i> , 2016, 20, . | 1.7 | 127 |
| 15 | 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 |
| 16 | Design of RC Columns Using Glass FRP Reinforcement. <i>Journal of Composites for Construction</i> , 2013, 17, 294-304. | 1.7 | 110 |
| 17 | URM Walls Strengthened with Fabric-Reinforced Cementitious Matrix Composite Subjected to Diagonal Compression. <i>Journal of Composites for Construction</i> , 2014, 18, . | 1.7 | 110 |
| 18 | Fiber reinforced cement-based composite system for concrete confinement. <i>Construction and Building Materials</i> , 2012, 32, 55-65. | 3.2 | 108 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | RC beams shear-strengthened with fabric-reinforced-cementitious-matrix (FRCM) composite. <i>International Journal of Advanced Structural Engineering</i> , 2015, 7, 341-352. | 1.3 | 89 |
| 21 | Shear strengthening of un-reinforced concrete masonry walls with fabric-reinforced-cementitious-matrix. <i>Construction and Building Materials</i> , 2014, 65, 243-253. | 3.2 | 88 |
| 22 | Out-of-Plane Behavior of URM Walls Strengthened with Fabric-Reinforced Cementitious Matrix Composite. <i>Journal of Composites for Construction</i> , 2014, 18, . | 1.7 | 88 |
| 23 | GFRP Reinforcement in Concrete after 15 Years of Service. <i>Journal of Composites for Construction</i> , 2017, 21, . | 1.7 | 86 |
| 24 | Effectiveness of Fabric-Reinforced Cementitious Matrix in Strengthening Reinforced Concrete Beams. <i>Journal of Composites for Construction</i> , 2017, 21, . | 1.7 | 86 |
| 25 | Acoustic emission monitoring for assessment of prestressed concrete beams. <i>Construction and Building Materials</i> , 2014, 58, 46-53. | 3.2 | 85 |
| 26 | Flexural Fatigue Behavior of Reinforced Concrete Beams Strengthened with FRP Fabric and Precured Laminate Systems. <i>Journal of Composites for Construction</i> , 2006, 10, 433-442. | 1.7 | 79 |
| 27 | A review of recent advances in the science and technology of seawater-mixed concrete. <i>Cement and Concrete Research</i> , 2022, 152, 106666. | 4.6 | 78 |
| 28 | Thermal effects on bond between FRP rebars and concrete. <i>Composites Part A: Applied Science and Manufacturing</i> , 2006, 37, 1223-1230. | 3.8 | 72 |
| 29 | 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 |
| 30 | Review of Design Guidelines for FRP Confinement of Reinforced Concrete Columns of Noncircular Cross Sections. <i>Journal of Composites for Construction</i> , 2008, 12, 80-92. | 1.7 | 68 |
| 31 | Interaction diagram methodology for design of FRP-confined reinforced concrete columns. <i>Construction and Building Materials</i> , 2009, 23, 1508-1520. | 3.2 | 67 |
| 32 | Hydration, Pore Solution, and Porosity of Cementitious Pastes Made with Seawater. <i>Journal of Materials in Civil Engineering</i> , 2019, 31, . | 1.3 | 65 |
| 33 | Tensile behavior of epoxy based FRP composites under extreme service conditions. <i>Composites Part B: Engineering</i> , 2012, 43, 1468-1474. | 5.9 | 64 |
| 34 | FRP jacketed concrete under flexure and combined flexure-compression. <i>Construction and Building Materials</i> , 1995, 9, 273-281. | 3.2 | 63 |
| 35 | Strengthening with FRP bars of URM walls subject to out-of-plane loads. <i>Construction and Building Materials</i> , 2006, 20, 101-110. | 3.2 | 63 |
| 36 | Eccentric Behavior of Full-Scale Reinforced Concrete Columns with Glass Fiber-Reinforced Polymer Bars and Ties. <i>ACI Structural Journal</i> , 2018, 115, . | 0.3 | 60 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | 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 |
| 38 | Rehabilitation of Compression Steel Members Using FRP Pipes Filled with Non-Expansive and Expansive Light-Weight Concrete. Advances in Structural Engineering, 2005, 8, 129-142. | 1.2 | 55 |
| 39 | Effectiveness of CFRP Strengthening on Curved Soffit RC Beams. Advances in Structural Engineering, 2005, 8, 55-68. | 1.2 | 54 |
| 40 | Financial Viability of Fiber-Reinforced Polymer (FRP) Bridges. Journal of Management in Engineering - ASCE, 2003, 19, 2-8. | 2.6 | 53 |
| 41 | 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 |
| 42 | Effect of corrosion damage on the flexural performance of RC beams strengthened with FRCM composites. Composite Structures, 2017, 180, 994-1006. | 3.1 | 52 |
| 43 | Cost and environmental analyses of reinforcement alternatives for a concrete bridge. Structure and Infrastructure Engineering, 2020, 16, 787-802. | 2.0 | 51 |
| 44 | Structural performance of a FRP bridge deck. Construction and Building Materials, 2004, 18, 35-47. | 3.2 | 47 |
| 45 | Field Assessment of Unreinforced Masonry Walls Strengthened with Fiber Reinforced Polymer Laminates. Journal of Structural Engineering, 2003, 129, 1047-1056. | 1.7 | 43 |
| 46 | Shape Effect on the Performance of Carbon Fiber Reinforced Polymer Wraps. Journal of Composites for Construction, 2004, 8, 444-451. | 1.7 | 43 |
| 47 | Performance of FRCM-Strengthened RC Beams Subject to Fatigue. Journal of Bridge Engineering, 2017, 22, . | 1.4 | 43 |
| 48 | Durability of GFRP reinforcing bars in seawater concrete. Construction and Building Materials, 2021, 270, 121492. | 3.2 | 41 |
| 49 | Assessment of Design Guidelines of Concrete Columns Reinforced with Glass Fiber-Reinforced Polymer Bars. ACI Structural Journal, 2019, 116, . | 0.3 | 40 |
| 50 | Strengthening of Masonry Structures with FRP Composites. , 2001, , 1. | | 38 |
| 51 | Precast Concrete Tunnel Segments with GFRP Reinforcement. Journal of Composites for Construction, 2017, 21, . | 1.7 | 38 |
| 52 | Strengthening of Short Shear Span Reinforced Concrete T Joists with Fiber-Reinforced Plastic Composites. Journal of Composites for Construction, 2002, 6, 264-271. | 1.7 | 35 |
| 53 | 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 |
| 54 | Corrosion-Damaged RC Beams Repaired with Fabric-Reinforced Cementitious Matrix. Journal of Composites for Construction, 2018, 22, . | 1.7 | 34 |

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| 55 | 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 |
| 56 | Carbon Neutral Off-White Rice Husk Ash as a Partial White Cement Replacement. <i>Journal of Materials in Civil Engineering</i> , 2010, 22, 1078-1083. | 1.3 | 33 |
| 57 | Life-Cycle Cost and Life-Cycle Assessment Analysis at the Design Stage of a Fiber-Reinforced Polymer-Reinforced Concrete Bridge in Florida. <i>Advances in Civil Engineering Materials</i> , 2019, 8, 128-151. | 0.2 | 33 |
| 58 | Bridge load testing and damage evaluation using model updating method. <i>Engineering Structures</i> , 2022, 252, 113648. | 2.6 | 33 |
| 59 | Durability of Commercially Available GFRP Reinforcement in Seawater-Mixed Concrete under Accelerated Aging Conditions. <i>Journal of Composites for Construction</i> , 2020, 24, . | 1.7 | 32 |
| 60 | Curvilinear GFRP bars for tunnel segments applications. <i>Composites Part B: Engineering</i> , 2018, 141, 137-147. | 5.9 | 31 |
| 61 | Creep-Rupture Limit for GFRP Bars Subjected to Sustained Loads. <i>Journal of Composites for Construction</i> , 2019, 23, . | 1.7 | 31 |
| 62 | In-Situ Evaluation of Two Concrete Slab Systems. II: Evaluation Criteria and Outcomes. <i>Journal of Performance of Constructed Facilities</i> , 2008, 22, 217-227. | 1.0 | 30 |
| 63 | Static and Fatigue Performance of FRCM-Strengthened Concrete Beams. <i>Journal of Composites for Construction</i> , 2018, 22, . | 1.7 | 30 |
| 64 | Experimental results and modelling of corrosion-damaged concrete beams strengthened with externally-bonded composites. <i>Engineering Structures</i> , 2018, 172, 172-186. | 2.6 | 30 |
| 65 | Repair of Damaged Prestressed Concrete Girders with FRP and FRCM Composites. <i>Journal of Composites for Construction</i> , 2017, 21, . | 1.7 | 29 |
| 66 | Deformation in Concrete with External CFRP Sheet Reinforcement. <i>Journal of Composites for Construction</i> , 2000, 4, 85-94. | 1.7 | 26 |
| 67 | Performance of Seawater-Mixed Recycled-Aggregate Concrete. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, . | 1.3 | 26 |
| 68 | 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 |
| 69 | In-Situ Evaluation of Two Concrete Slab Systems. I: Load Determination and Loading Procedure. <i>Journal of Performance of Constructed Facilities</i> , 2008, 22, 207-216. | 1.0 | 23 |
| 70 | Short-term flexural performance of seawater-mixed recycled-aggregate GFRP-reinforced concrete beams. <i>Composite Structures</i> , 2020, 236, 111860. | 3.1 | 23 |
| 71 | Behavior of Tendons with Multiple CFRP Rods. <i>Journal of Structural Engineering</i> , 2016, 142, . | 1.7 | 20 |
| 72 | Fatigue and Monotonic Behaviors of Corrosion-Damaged Reinforced Concrete Beams Strengthened with FRCM Composites. <i>Journal of Composites for Construction</i> , 2018, 22, 04018040. | 1.7 | 20 |

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| 73 | Shear Behaviors of RC Beams Externally Strengthened with Engineered Cementitious Composite Layers. <i>Materials</i> , 2019, 12, 2163. | 1.3 | 20 |
| 74 | Effect of Environmental Pre-Conditioning on Bond of FRP Reinforcement to Concrete. <i>Journal of Reinforced Plastics and Composites</i> , 2001, 20, 881-900. | 1.6 | 19 |
| 75 | Discontinuous Brillouin strain monitoring of small concrete bridges: comparison between near-to-surface and smart FRP fiber installation techniques. , 2005, , . | | 19 |
| 76 | Microstructural investigation of glass fiber reinforced polymer bars. <i>Composites Part B: Engineering</i> , 2017, 110, 388-395. | 5.9 | 19 |
| 77 | 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 |
| 78 | 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 |
| 79 | Flexural analysis and design of FRCM-strengthened RC beams. <i>Construction and Building Materials</i> , 2020, 244, 118371. | 3.2 | 17 |
| 80 | Design of Marine Dock Using Concrete Mixed with Seawater and FRP Bars. <i>Journal of Composites for Construction</i> , 2021, 25, 05020006. | 1.7 | 17 |
| 81 | Durability assessment of GFRP rebars in marine environments. <i>Construction and Building Materials</i> , 2022, 329, 127028. | 3.2 | 17 |
| 82 | Connection of Concrete Railing Post and Bridge Deck with Internal FRP Reinforcement. <i>Journal of Bridge Engineering</i> , 2009, 14, 66-76. | 1.4 | 16 |
| 83 | Post-Fire Behavior of GFRP Bars and GFRP-RC Slabs. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, . | 1.3 | 16 |
| 84 | Cost effectiveness of reinforcement alternatives for a concrete water chlorination tank. <i>Journal of Building Engineering</i> , 2020, 27, 100992. | 1.6 | 16 |
| 85 | Evaluation of fiber content in GFRP bars using digital image processing. <i>Composites Part B: Engineering</i> , 2020, 200, 108307. | 5.9 | 16 |
| 86 | 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 |
| 87 | Analysis of RC Hollow Columns Strengthened with GFRP. <i>Journal of Composites for Construction</i> , 2011, 15, 545-556. | 1.7 | 15 |
| 88 | New directions for reinforced concrete coastal structures. <i>Journal of Infrastructure Preservation and Resilience</i> , 2021, 2, . | 1.5 | 15 |
| 89 | Physical, mechanical and durability properties of GFRP bars with modified acrylic resin (modar) matrix. <i>Composite Structures</i> , 2021, 262, 113557. | 3.1 | 15 |
| 90 | Assessment of reinforced concrete structures in marine environment: a case study. <i>Corrosion Reviews</i> , 2019, 37, 57-69. | 1.0 | 13 |

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| 91 | Condition assessment of concrete and glass fiber reinforced polymer (GFRP) rebar after 18 years of service life. <i>Case Studies in Construction Materials</i> , 2021, 14, e00494. | 0.8 | 13 |
| 92 | Flexural Strengthening of Bridge Piers Using FRP Composites. , 2000, , 1. | | 12 |
| 93 | <title>Instrumentation and manufacture of a smart composite bridge for short-span applications</title>. , 2001, 4330, 147. | | 12 |
| 94 | In-Plane Performance of Unreinforced Concrete Masonry Strengthened with Prestressed GFRP Bars. <i>Journal of Composites for Construction</i> , 2017, 21, . | 1.7 | 12 |
| 95 | Shrinkage Behavior of Cementitious Mortars Mixed with Seawater. <i>Advances in Civil Engineering Materials</i> , 2019, 8, 64-78. | 0.2 | 12 |
| 96 | Single-Parameter Methodology for the Prediction of the Stress-Strain Behavior of FRP-Confined RC Square Columns. <i>Journal of Composites for Construction</i> , 2011, 15, 384-392. | 1.7 | 11 |
| 97 | Direct Shear Bond Tests of Fabric-Reinforced Cementitious Matrix Materials. <i>Journal of Composites for Construction</i> , 2020, 24, . | 1.7 | 11 |
| 98 | Soffit and U-Wrap FRCM Strengthening for Reinforced Concrete Beams. <i>ACI Structural Journal</i> , 2019, 116, . | 0.3 | 9 |
| 99 | Culvert Prototype Made with Seawater Concrete: Materials Characterization, Monitoring, and Environmental Impact. <i>Advances in Civil Engineering Materials</i> , 2019, 8, 44-63. | 0.2 | 9 |
| 100 | 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 |
| 101 | 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 |
| 102 | Durability Assessment of 15- to 20-Year-Old GFRP Bars Extracted from Bridges in the US. I: Selected Bridges, Bar Extraction, and Concrete Assessment. <i>Journal of Composites for Construction</i> , 2021, 25, . | 1.7 | 8 |
| 103 | Bridge Case Study: What a Contractor Needs to Know on an FRP Reinforcement Project. <i>Journal of Composites for Construction</i> , 2020, 24, . | 1.7 | 7 |
| 104 | Durability Assessment of 15- to 20-Year-Old GFRP Bars Extracted from Bridges in the US. II: GFRP Bar Assessment. <i>Journal of Composites for Construction</i> , 2021, 25, . | 1.7 | 7 |
| 105 | Strengthening Dapped Ends of Precast Double Tees with Externally Bonded FRP Reinforcement. , 2000, , 1. | | 5 |
| 106 | Incorporating Expected Life-Time into Live Load Factor for RC Structures Using Reliability Analysis. <i>Advances in Structural Engineering</i> , 2013, 16, 887-898. | 1.2 | 5 |
| 107 | Hydration, Strength, and Shrinkage of Cementitious Materials Mixed with Simulated Desalination Brine. <i>Advances in Civil Engineering Materials</i> , 2019, 8, 31-43. | 0.2 | 5 |
| 108 | Novel Test Method for Ultimate Hoop-Strain Characterization in FRP Jackets. <i>Journal of Materials in Civil Engineering</i> , 2011, 23, 1633-1641. | 1.3 | 4 |

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| 109 | 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 |
| 110 | Fatigue Behavior of FRCM-Strengthened RC Beams. Journal of Composites for Construction, 2020, 24, . | 1.7 | 3 |
| 111 | GFRP Reinforcements in Box Culvert Bridge: A Case Study After Two Decades of Service. , 2017, , 75-88. | | 3 |
| 112 | Overview of AASHTO Design Specifications for GFRP-RC Bridges 2nd Edition: Toledo Bridge as Case Study.. , 2019, , . | | 3 |
| 113 | Diagnostic Load Testing of Two-Way Posttensioned Concrete Slab. Practice Periodical on Structural Design and Construction, 2001, 6, 73-82. | 0.7 | 2 |
| 114 | Recent advances in the development of a self-powered wireless sensor network for structural health prognosis. Proceedings of SPIE, 2011, , . | 0.8 | 2 |
| 115 | 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 |
| 116 | Bond Behavior of Near-Surface Mounted FRP Bars to Masonry. Journal of Composites for Construction, 2018, 22, 04018024. | 1.7 | 2 |
| 117 | The 200-year Bridge Substructure “ Foundations for Resilience and Sustainability. IABSE Symposium Report, 2019, , . | 0.0 | 2 |
| 118 | Design of Concrete Railing Reinforced with Glass Fiber Reinforced Polymer Bars. , 2006, , 1. | | 1 |
| 119 | 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 |
| 120 | Microstructure and Mechanical Property Behavior of FRP Reinforcement Autopsied from Bridge Structures Subjected to In Situ Exposure. , 2018, , 585-591. | | 1 |
| 121 | Non-destructive testing applications for in-service FRP reinforced/strengthened concrete bridge elements. , 2022, , . | | 1 |
| 122 | Structural Health Monitoring of FRP-Reinforced Concrete Bridges Using Vibration Responses. Lecture Notes in Civil Engineering, 2023, , 735-744. | 0.3 | 1 |
| 123 | Innovative Methods for Evaluation of Precast Box-Beam Bridges. , 2022, , . | | 0 |