

Thanasis Triantafillou

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7306601/publications.pdf>

Version: 2024-02-01

68
papers

5,873
citations

109264

35
h-index

118793

62
g-index

68
all docs

68
docs citations

68
times ranked

3176
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Fiber-Reinforced Polymer Composites for Construction – State-of-the-Art Review. Journal of Composites for Construction, 2002, 6, 73-87. | 1.7 | 1,370 |
| 2 | Failure surfaces for cellular materials under multiaxial loads – I. Modelling. International Journal of Mechanical Sciences, 1989, 31, 635-663. | 3.6 | 327 |
| 3 | Textile-reinforced mortar (TRM) versus FRP as strengthening material of URM walls: in-plane cyclic loading. Materials and Structures/Materiaux Et Constructions, 2007, 40, 1081-1097. | 1.3 | 313 |
| 4 | Design of Concrete Flexural Members Strengthened in Shear with FRP. Journal of Composites for Construction, 2000, 4, 198-205. | 1.7 | 304 |
| 5 | Experimental Investigation of FRP-Strengthened RC Beam-Column Joints. Journal of Composites for Construction, 2003, 7, 39-49. | 1.7 | 296 |
| 6 | Externally bonded grids as strengthening and seismic retrofitting materials of masonry panels. Construction and Building Materials, 2011, 25, 504-514. | 3.2 | 205 |
| 7 | Failure surfaces for cellular materials under multiaxial loads – II. Comparison of models with experiment. International Journal of Mechanical Sciences, 1989, 31, 665-678. | 3.6 | 176 |
| 8 | FRP – Reinforced Wood as Structural Material. Journal of Materials in Civil Engineering, 1992, 4, 300-317. | 1.3 | 175 |
| 9 | Failure mode maps for foam core sandwich beams. Materials Science and Engineering, 1987, 95, 37-53. | 0.1 | 172 |
| 10 | Round Robin Test for composite-to-brick shear bond characterization. Materials and Structures/Materiaux Et Constructions, 2012, 45, 1761-1791. | 1.3 | 172 |
| 11 | Recommendation of RILEM TC 232-TDT: test methods and design of textile reinforced concrete. Materials and Structures/Materiaux Et Constructions, 2016, 49, 4923-4927. | 1.3 | 171 |
| 12 | Masonry Confinement with Fiber-Reinforced Polymers. Journal of Composites for Construction, 2005, 9, 128-135. | 1.7 | 128 |
| 13 | Prestressed FRP Sheets as External Reinforcement of Wood Members. Journal of Structural Engineering, 1992, 118, 1270-1284. | 1.7 | 119 |
| 14 | Textile-Reinforced Mortar versus FRP Jacketing in Seismic Retrofitting of RC Columns with Continuous or Lap-Spliced Deformed Bars. Journal of Composites for Construction, 2009, 13, 360-371. | 1.7 | 115 |
| 15 | Innovative Prestressing with FRP Sheets: Mechanics of Short – Term Behavior. Journal of Engineering Mechanics - ASCE, 1991, 117, 1652-1672. | 1.6 | 112 |
| 16 | Use of Anchors in Shear Strengthening of Reinforced Concrete T-Beams with FRP. Journal of Composites for Construction, 2013, 17, 101-107. | 1.7 | 104 |
| 17 | Composites: a new possibility for the shear strengthening of concrete, masonry and wood. Composites Science and Technology, 1998, 58, 1285-1295. | 3.8 | 99 |
| 18 | Reliability of RC Members Strengthened with CFRP Laminates. Journal of Structural Engineering, 1995, 121, 1037-1044. | 1.7 | 92 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Shear Reinforcement of Wood Using FRP Materials. Journal of Materials in Civil Engineering, 1997, 9, 65-69. | 1.3 | 92 |
| 20 | Analysis of FRP-Strengthened RC Beam-Column Joints. Journal of Composites for Construction, 2002, 6, 41-51. | 1.7 | 91 |
| 21 | Shear strengthening of reinforced concrete T-beams under cyclic loading with TRM or FRP jackets. Materials and Structures/Materiaux Et Constructions, 2016, 49, 17-28. | 1.3 | 91 |
| 22 | Time-Dependent Behavior of RC Members Strengthened with FRP Laminates. Journal of Structural Engineering, 1994, 120, 1016-1042. | 1.7 | 77 |
| 23 | An innovative structural and energy retrofitting system for URM walls using textile reinforced mortars combined with thermal insulation: Mechanical and fire behavior. Construction and Building Materials, 2017, 133, 1-13. | 3.2 | 77 |
| 24 | Bond Strength of Lap-Spliced Bars in Concrete Confined with Composite Jackets. Journal of Composites for Construction, 2011, 15, 156-167. | 1.7 | 67 |
| 25 | Bar Buckling in RC Columns Confined with Composite Materials. Journal of Composites for Construction, 2011, 15, 393-403. | 1.7 | 64 |
| 26 | Experimental Investigation of Nonconventional Confinement for Concrete Using FRP. Journal of Composites for Construction, 2005, 9, 480-487. | 1.7 | 56 |
| 27 | Fracture Mechanics Approach for Failure of Concrete Shear Key. I: Theory. Journal of Engineering Mechanics - ASCE, 1993, 119, 681-700. | 1.6 | 53 |
| 28 | Creep Behavior of FRP-Reinforced Wood Members. Journal of Structural Engineering, 1995, 121, 174-186. | 1.7 | 52 |
| 29 | Minimum weight design of foam core sandwich panels for a given strength. Materials Science and Engineering, 1987, 95, 55-62. | 0.1 | 51 |
| 30 | A field deployable, multiplexed Bragg grating sensor system used in an extensive highway bridge monitoring evaluation tests. IEEE Sensors Journal, 2005, 5, 510-519. | 2.4 | 51 |
| 31 | Multiaxial failure criteria for brittle foams. International Journal of Mechanical Sciences, 1990, 32, 479-496. | 3.6 | 46 |
| 32 | Analysis-oriented model for concrete and masonry confined with fiber reinforced mortar. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1. | 1.3 | 46 |
| 33 | Strengthening of structures with advanced FRPs. Structural Control and Health Monitoring, 1998, 1, 126-134. | 0.7 | 40 |
| 34 | Accuracy of design-oriented formulations for evaluating the flexural and shear capacities of FRP-strengthened RC beams. Structural Concrete, 2016, 17, 425-442. | 1.5 | 40 |
| 35 | FRP confinement of wall-like reinforced concrete columns. Materials and Structures/Materiaux Et Constructions, 2016, 49, 651-664. | 1.3 | 37 |
| 36 | Constitutive Modeling of Elastic-Plastic Open-Cell Foams. Journal of Engineering Mechanics - ASCE, 1990, 116, 2772-2778. | 1.6 | 31 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Innovative Design of FRP Combined with Concrete: Long-Term Behavior. Journal of Structural Engineering, 1995, 121, 1079-1089. | 1.7 | 31 |
| 38 | Fracture Mechanics Approach for Failure of Concrete Shear Key. II: Verification. Journal of Engineering Mechanics - ASCE, 1993, 119, 701-719. | 1.6 | 29 |
| 39 | Seismic protection of monuments using particle dampers in multi-drum columns. Soil Dynamics and Earthquake Engineering, 2015, 77, 360-368. | 1.9 | 28 |
| 40 | Thermomechanical Behavior of Textile Reinforced Cementitious Composites Subjected to Fire. Applied Sciences (Switzerland), 2019, 9, 747. | 1.3 | 27 |
| 41 | Seismic retrofitting of structures with fibre-reinforced polymers. Structural Control and Health Monitoring, 2001, 3, 57-65. | 0.7 | 25 |
| 42 | Background to the European seismic design provisions for retrofitting RC elements using FRP materials. Structural Concrete, 2016, 17, 194-219. | 1.5 | 24 |
| 43 | Integrated Structural and Energy Retrofitting of Masonry Walls: Effect of In-Plane Damage on the Out-of-Plane Response. Journal of Composites for Construction, 2020, 24, . | 1.7 | 24 |
| 44 | Innovative Applications of Textile-Based Composites in Strengthening and Seismic Retrofitting as Well as in the Prefabrication of New Structures. Advanced Materials Research, 2013, 639-640, 26-41. | 0.3 | 17 |
| 45 | Seismic Behavior of Repaired and Externally FRP-Jacketed Short Columns Built with Extremely Low-Strength Concrete. Journal of Composites for Construction, 2022, 26, . | 1.7 | 16 |
| 46 | Optimization of hybrid aluminum/cfrp box beams. International Journal of Mechanical Sciences, 1991, 33, 729-739. | 3.6 | 15 |
| 47 | Fibre-reinforced polymer reinforcement enters <i>fib</i> Model Code 2010. Structural Concrete, 2013, 14, 335-341. | 1.5 | 13 |
| 48 | Integrated Seismic and Energy Retrofitting System for Masonry Walls Using Textile-Reinforced Mortars Combined with Thermal Insulation: Experimental, Analytical, and Numerical Study. Journal of Composites Science, 2020, 4, 189. | 1.4 | 13 |
| 49 | NSM Systems. RILEM State-of-the-Art Reports, 2016, , 303-348. | 0.3 | 13 |
| 50 | Tensile Performance of Textile-Reinforced Concrete after Fire Exposure: Experimental Investigation and Analytical Approach. Journal of Composites for Construction, 2022, 26, . | 1.7 | 13 |
| 51 | Influence of the design materials on the mechanical and physical properties of repair mortars of historic buildings. Materials and Structures/Materiaux Et Constructions, 2011, 44, 1671-1685. | 1.3 | 9 |
| 52 | Damage detection of reinforced concrete columns retrofitted with FRP jackets by using PZT sensors. Structural Monitoring and Maintenance, 2015, 2, 165-180. | 1.7 | 9 |
| 53 | State-of-the-Art Review on Experimental Investigations of Textile-Reinforced Concrete Exposed to High Temperatures. Journal of Composites Science, 2021, 5, 290. | 1.4 | 9 |
| 54 | Innovative and Eco-friendly Solutions for the Seismic Retrofitting of Natural Stone Masonry Walls with Textile Reinforced Mortar: In- and Out-of-Plane Behavior. Journal of Composites for Construction, 2022, 26, . | 1.7 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Optimal Design of Ferronickel Slag Alkali-Activated Material for High Thermal Load Applications Developed by Design of Experiment. <i>Materials</i> , 2022, 15, 4379. | 1.3 | 7 |
| 56 | An Innovative Structural and Energy Retrofitting System for Masonry Walls Using Textile Reinforced Mortars Combined with Thermal Insulation. <i>RILEM Bookseries</i> , 2018, , 752-761. | 0.2 | 6 |
| 57 | Vulnerability assessment of an innovative precast concrete sandwich panel subjected to the ISO 834 fire. <i>Journal of Building Engineering</i> , 2022, 52, 104479. | 1.6 | 4 |
| 58 | Numerical study of anchors for composite prestressing straps. <i>Composite Structures</i> , 1996, 35, 323-330. | 3.1 | 3 |
| 59 | Increase of load-carrying capacity of masonry with textile reinforced rendering / Erhöhung der Tragfähigkeit von Mauerwerk mit textildbewehrtem Putz. <i>Mauerwerk</i> , 2015, 19, 40-51. | 0.2 | 3 |
| 60 | Preliminary High-Temperature Tests of Textile Reinforced Concrete (TRC). <i>Proceedings (mdpi)</i> , 2018, 2, 522. | 0.2 | 3 |
| 61 | Computer-aided strengthening of masonry walls using fibre-reinforced polymer strips. <i>Materials and Structures/Materiaux Et Constructions</i> , 2005, 38, 93-98. | 1.3 | 3 |
| 62 | Integrated Seismic and Energy Retrofitting System Using Textile-Reinforced Mortars Combined with Thermal Insulation. <i>Lecture Notes in Civil Engineering</i> , 2022, , 3-18. | 0.3 | 3 |
| 63 | Mechanical behavior of textile reinforced alkali-activated mortar based on fly ash, metakaolin and ladle furnace slag. <i>Open Research Europe</i> , 0, 2, 79. | 2.0 | 3 |
| 64 | A passive control methodology for seismic safety enhancement of monumental structures. , 2015, , . | | 2 |
| 65 | Innovative Seismic Retrofitting of RC Columns Using Advanced Composites. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2010, , 383-393. | 0.1 | 0 |
| 66 | Bond Strength of Lap Splices in FRP and TRM Confined Concrete: Behavior and Design. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2014, , 203-219. | 0.1 | 0 |
| 67 | fib Report on Design of Concrete Members Strengthened with Externally Applied Reinforcement. , 2018, , 1592-1600. | | 0 |
| 68 | Minimum cost design of concrete sandwich panels made of HPC faces and PAC core: the case of in-plane loading. <i>Structural Concrete</i> , 2002, 3, 167-181. | 1.5 | 0 |