

Pedro Serna

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

4,609
citations

172207

29
h-index

98622

67
g-index

82
all docs

82
docs citations

82
times ranked

4371
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Experimental Characterization of the Tensile Constitutive Behaviour of Ultra-High Performance Concretes: Effect of Cement and Fibre Type. RILEM Bookseries, 2022, , 936-946. | 0.2 | 1 |
| 2 | An Analytical Study of Shear Transfer Mechanisms in Macro-synthetic Fibre Reinforced Concrete. RILEM Bookseries, 2022, , 409-419. | 0.2 | 0 |
| 3 | Preliminary study on the fresh and mechanical properties of UHPC made with recycled UHPC aggregates. European Journal of Environmental and Civil Engineering, 2022, 26, 7427-7442. | 1.0 | 2 |
| 4 | Preliminary Study of the Fresh and Hard Properties of UHPC That Is Used to Produce 3D Printed Mortar. Materials, 2022, 15, 2750. | 1.3 | 1 |
| 5 | Effect of healing agents on the rheological properties of cement paste and compatibility with superplasticizer. MATEC Web of Conferences, 2022, 361, 05008. | 0.1 | 1 |
| 6 | Tensile behaviour of reinforced UHPFRC elements under serviceability conditions. Materials and Structures/Materiaux Et Constructions, 2021, 54, 1. | 1.3 | 7 |
| 7 | Self-healing concrete-What Is it Good For?. Materiales De Construccion, 2021, 71, e237. | 0.2 | 13 |
| 8 | Autogenous Self-Healing Capacity of Early-Age Ultra-High-Performance Fiber-Reinforced Concrete. Sustainability, 2021, 13, 3061. | 1.6 | 13 |
| 9 | Recommendation of RILEM TC 261-CCF: test method to determine the flexural creep of fibre reinforced concrete in the cracked state. Materials and Structures/Materiaux Et Constructions, 2021, 54, 1. | 1.3 | 2 |
| 10 | Characterization of Glass Powder from Glass Recycling Process Waste and Preliminary Testing. Materials, 2021, 14, 2971. | 1.3 | 6 |
| 11 | A Study of the Flexural Behavior of Fiber-Reinforced Concretes Exposed to Moderate Temperatures. Materials, 2021, 14, 3522. | 1.3 | 5 |
| 12 | Single-Site vs. Cluster Catalysis in High Temperature Oxidations. Angewandte Chemie - International Edition, 2021, 60, 15954-15962. | 7.2 | 21 |
| 13 | Serviceability behaviour of reinforced UHPFRC tensile elements: Assessment of the ratio between maximum and average crack widths. Construction and Building Materials, 2021, 303, 124513. | 3.2 | 5 |
| 14 | Finite Element Modelling of UHPFRC Flexural-Reinforced Elements. RILEM Bookseries, 2021, , 639-650. | 0.2 | 1 |
| 15 | Numerical Modelling of Fiber-Reinforced Concrete Shear-Critical Beams. RILEM Bookseries, 2021, , 670-680. | 0.2 | 1 |
| 16 | Self-healing efficiency of Ultra High-Performance Fiber-Reinforced Concrete through permeability to chlorides. Construction and Building Materials, 2021, 310, 125168. | 3.2 | 23 |
| 17 | The Effect of Fiber Content on the Post-cracking Tensile Stiffness Capacity of R-UHPFRC. RILEM Bookseries, 2021, , 1112-1123. | 0.2 | 3 |
| 18 | Understanding the Impacts of Healing Agents on the Properties of Fresh and Hardened Self-Healing Concrete: A Review. Processes, 2021, 9, 2206. | 1.3 | 18 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Experimental methodology on the serviceability behaviour of reinforced ultra-high performance fibre reinforced concrete tensile elements. <i>Strain</i> , 2020, 56, e12361. | 1.4 | 3 |
| 20 | Influence of Cracking on Oxygen Transport in UHPFRC Using Stainless Steel Sensors. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 239. | 1.3 | 4 |
| 21 | Concrete Early-Age Crack Closing by Autogenous Healing. <i>Sustainability</i> , 2020, 12, 4476. | 1.6 | 24 |
| 22 | Flexural and compressive creep behavior of UHPFRC specimens. <i>Construction and Building Materials</i> , 2020, 244, 118254. | 3.2 | 8 |
| 23 | Effect of crack pattern on the self-healing capability in traditional, HPC and UHPFRC concretes measured by water and chloride permeability. <i>MATEC Web of Conferences</i> , 2019, 289, 01006. | 0.1 | 12 |
| 24 | A testing method for studying the serviceability behavior of reinforced UHPFRC tensile ties. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 596, 012022. | 0.3 | 4 |
| 25 | Long-term behavior of cracked fiber reinforced concrete under service conditions. <i>Construction and Building Materials</i> , 2019, 196, 649-658. | 3.2 | 11 |
| 26 | An Overview on H2020 Project "ReSHEALience". <i>IABSE Symposium Report</i> , 2019, , . | 0.0 | 8 |
| 27 | Experimental characterization of the self-healing capacity of cement based materials and its effects on the material performance: A state of the art report by COST Action SARCOS WG2. <i>Construction and Building Materials</i> , 2018, 167, 115-142. | 3.2 | 183 |
| 28 | A material-performance-based database for FRC and RC elements under shear loading. <i>Materials and Structures/Materiaux Et Constructions</i> , 2018, 51, 1. | 1.3 | 24 |
| 29 | An experimental study on the shear behaviour of reinforced concrete beams with macro-synthetic fibres. <i>Construction and Building Materials</i> , 2018, 169, 888-899. | 3.2 | 55 |
| 30 | Structural effects of FRC creep. <i>Materials and Structures/Materiaux Et Constructions</i> , 2018, 51, 1. | 1.3 | 17 |
| 31 | A Review of Self-Healing Concrete for Damage Management of Structures. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800074. | 1.9 | 412 |
| 32 | Interfacial Transition Zone in Mature Fiber-Reinforced Concretes. <i>ACI Materials Journal</i> , 2018, 115, . | 0.3 | 1 |
| 33 | Modified push-off test for analysing the shear behaviour of concrete cracks. <i>Strain</i> , 2017, 53, e12239. | 1.4 | 21 |
| 34 | Effect of Residual Strength Parameters on FRC Flexural Creep: Multivariate Analysis. <i>RILEM Bookseries</i> , 2017, , 141-153. | 0.2 | 2 |
| 35 | Influence of Fibre Reinforcement on the Long-Term Behaviour of Cracked Concrete. <i>RILEM Bookseries</i> , 2017, , 195-209. | 0.2 | 1 |
| 36 | Footbridge over the Ovejas ravine in Alicante: An economical alternative made only of ultra-high-performance fibre-reinforced concrete (UHPFRC). <i>Fibre-reinforced Concrete: From Design To Structural Applications</i> , 2017, , 435-350. | 0.0 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Effect of crystalline admixtures on the self-healing capability of early-age concrete studied by means of permeability and crack closing tests. <i>Construction and Building Materials</i> , 2016, 114, 447-457. | 3.2 | 209 |
| 38 | Creep and residual properties of cracked macro-synthetic fibre reinforced concretes. <i>Magazine of Concrete Research</i> , 2016, 68, 197-207. | 0.9 | 14 |
| 39 | Bond of reinforcing bars to steel fiber reinforced concrete. <i>Construction and Building Materials</i> , 2016, 105, 275-284. | 3.2 | 61 |
| 40 | A simplified five-point inverse analysis method to determine the tensile properties of UHPFRC from unnotched four-point bending tests. <i>Composites Part B: Engineering</i> , 2016, 91, 189-204. | 5.9 | 51 |
| 41 | Experimental study on the steel-fibre contribution to concrete shear behaviour. <i>Construction and Building Materials</i> , 2016, 112, 100-111. | 3.2 | 29 |
| 42 | Influence of concrete matrix and type of fiber on the shear behavior of self-compacting fiber reinforced concrete beams. <i>Composites Part B: Engineering</i> , 2015, 75, 135-147. | 5.9 | 60 |
| 43 | Self-healing capability of concrete with crystalline admixtures in different environments. <i>Construction and Building Materials</i> , 2015, 86, 1-11. | 3.2 | 229 |
| 44 | Transforming Nano Metal Nonselective Particulates into Chemoselective Catalysts for Hydrogenation of Substituted Nitrobenzenes. <i>ACS Catalysis</i> , 2015, 5, 7114-7121. | 5.5 | 240 |
| 45 | Database on the Long-Term Behaviour of FRC: A Useful Tool to Achieve Overall Conclusions. , 2015, , . | | 1 |
| 46 | An inverse analysis method based on deflection to curvature transformation to determine the tensile properties of UHPFRC. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015, 48, 3703-3718. | 1.3 | 44 |
| 47 | Bond of Reinforcement in Concrete Applied to Concrete Quality Control: The Bottle Bond Test. <i>Strain</i> , 2014, 50, 57-67. | 1.4 | 4 |
| 48 | Splitting of concrete cover in steel fiber reinforced concrete: Semi-empirical modeling and minimum confinement requirements. <i>Construction and Building Materials</i> , 2014, 66, 743-751. | 3.2 | 26 |
| 49 | Slip distribution model along the anchorage length of prestressing strands. <i>Engineering Structures</i> , 2014, 59, 674-685. | 2.6 | 25 |
| 50 | Measuring specific parameters in pretensioned concrete members using a single testing technique. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014, 49, 421-432. | 2.5 | 13 |
| 51 | Flexural creep of steel fiber reinforced concrete in the cracked state. <i>Construction and Building Materials</i> , 2014, 65, 321-329. | 3.2 | 48 |
| 52 | First Ultra-High-Performance Fibre-Reinforced Concrete Footbridge in Spain: Design and Construction. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , 2014, 24, 101-104. | 0.5 | 30 |
| 53 | Size Effect on Strand Bond and Concrete Strains at Prestress Transfer. <i>ACI Structural Journal</i> , 2014, 111, . | 0.3 | 7 |
| 54 | Time-dependent evolution of strand transfer length in pretensioned prestressed concrete members. <i>Mechanics of Time-Dependent Materials</i> , 2013, 17, 501-527. | 2.3 | 31 |

| # | ARTICLE | IF | CITATIONS |
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| 55 | Shear behavior of prestressed precast beams made of self-compacting fiber reinforced concrete. <i>Construction and Building Materials</i> , 2013, 45, 145-156. | 3.2 | 53 |
| 56 | Influence of concrete composition on anchorage bond behavior of prestressing reinforcement. <i>Construction and Building Materials</i> , 2013, 48, 1156-1164. | 3.2 | 27 |
| 57 | Prestress losses evaluation in prestressed concrete prismatic specimens. <i>Engineering Structures</i> , 2013, 48, 704-715. | 2.6 | 55 |
| 58 | Strand bond performance in prestressed concrete accounting for bond slip. <i>Engineering Structures</i> , 2013, 51, 236-244. | 2.6 | 41 |
| 59 | An experimental study of steel fiber-reinforced high-strength concrete slender columns under cyclic loading. <i>Engineering Structures</i> , 2013, 57, 565-577. | 2.6 | 32 |
| 60 | Experimental Technique for Measuring the Long-term Transfer Length in Prestressed Concrete. <i>Strain</i> , 2013, 49, 125-134. | 1.4 | 25 |
| 61 | Failure modes and shear design of prestressed hollow core slabs made of fiber-reinforced concrete. <i>Composites Part B: Engineering</i> , 2013, 45, 952-964. | 5.9 | 62 |
| 62 | A Test Method to Characterize Flexural Creep Behaviour of Pre-cracked FRC Specimens. <i>Experimental Mechanics</i> , 2012, 52, 1067-1078. | 1.1 | 35 |
| 63 | Influence of limestone filler and viscosity-modifying admixture on the shrinkage of self-compacting concrete. <i>Cement and Concrete Research</i> , 2012, 42, 583-592. | 4.6 | 58 |
| 64 | Effects of concrete composition on transmission length of prestressing strands. <i>Construction and Building Materials</i> , 2012, 27, 350-356. | 3.2 | 47 |
| 65 | Bond of 13mm prestressing steel strands in pretensioned concrete members. <i>Engineering Structures</i> , 2012, 41, 403-412. | 2.6 | 42 |
| 66 | UHPFRC Bolted Joints: Failure Modes of a New Simple Connection System. <i>RILEM Bookseries</i> , 2012, , 421-428. | 0.2 | 2 |
| 67 | Structural Design and Previous Tests for a Retaining Wall Made with Precast Elements of UHPFRC. <i>RILEM Bookseries</i> , 2012, , 437-444. | 0.2 | 0 |
| 68 | Shear Behavior of Self-Compacting Concrete and Fiber-Reinforced Concrete Push-Off Specimens. , 2010, , 429-438. | | 16 |
| 69 | Chemoselective Synthesis of Substituted Imines, Secondary Amines, and α -Amino Carbonyl Compounds from Nitroaromatics through Cascade Reactions on Gold Catalysts. <i>Chemistry - A European Journal</i> , 2009, 15, 8196-8203. | 1.7 | 77 |
| 70 | Influence of recycled aggregate quality and proportioning criteria on recycled concrete properties. <i>Waste Management</i> , 2009, 29, 3022-3028. | 3.7 | 123 |
| 71 | Creep and shrinkage of recycled aggregate concrete. <i>Construction and Building Materials</i> , 2009, 23, 2545-2553. | 3.2 | 325 |
| 72 | Structural cast-in-place SFRC: technology, control criteria and recent applications in Spain. <i>Materials and Structures/Materiaux Et Constructions</i> , 2009, 42, 1233-1246. | 1.3 | 63 |

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| 73 | Chemoselective Hydrogenation of Nitro Compounds with Supported Gold Catalysts. Science, 2006, 313, 332-334. | 6.0 | 1,383 |
| 74 | Test method for determination of the transmission and anchorage lengths in prestressed reinforcement. Magazine of Concrete Research, 2006, 58, 21-29. | 0.9 | 37 |
| 75 | Preparation of substituted anilines from nitro compounds by using supported gold catalysts. Nature Protocols, 2006, 1, 2590-2595. | 5.5 | 40 |
| 76 | Transfer and Development Lengths of Concentrically Prestressed Concrete. PCI Journal, 2006, 51, 74-85. | 0.4 | 20 |
| 77 | Influence of confinement on high strength concrete behavior. Materials and Structures/Materiaux Et Constructions, 2003, 36, 439-447. | 1.3 | 1 |