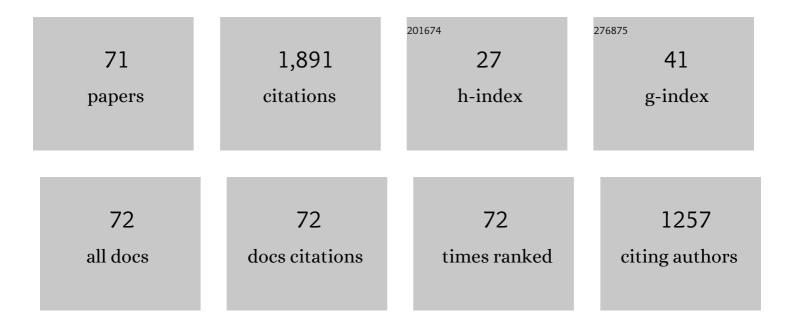
Miguel Ängel Climent

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Early Detection of Corrosion-Induced Concrete Micro-cracking by Using Nonlinear Ultrasonic Techniques: Possible Influence of Mass Transport Processes. Corrosion and Materials Degradation, 2022, 3, 235-257. | 2.4 | 8 |
| 2 | Violin Ceramic Joist Slabs: Evaluation and Proposal for Intervention with Duplex-Type Stainless Steel. Buildings, 2022, 12, 942. | 3.1 | 0 |
| 3 | Detecting cracks due to steel corrosion in reinforced cement mortar using intermodulation generation of ultrasonic waves. Construction and Building Materials, 2021, 286, 122915. | 7.2 | 21 |
| 4 | Cement mortar cracking under accelerated steel corrosion test: A mechanical and electrochemical model. Journal of Electroanalytical Chemistry, 2021, 896, 115222. | 3.8 | 5 |
| 5 | Modelos de estimativa do grau de saturação do concreto a partir das variáveis ambientais aplicados Ã análise de confiabilidade de estruturas de concreto armado atacadas por Ãons cloreto. Revista Materia, 2021, 26, . | 0.2 | 2 |
| 6 | Use of Higher-Harmonic and Intermodulation Generation of Ultrasonic Waves to Detecting Cracks due to Steel Corrosion in Reinforced Cement Mortar. International Journal of Concrete Structures and Materials, 2020, 14, . | 3.2 | 13 |
| 7 | The Use of Volcanic Powder as a Cement Replacement for the Development of Sustainable Mortars. Applied Sciences (Switzerland), 2020, 10, 1460. | 2.5 | 10 |
| 8 | Recomendaciones sobre DifusiÃ ³ n de Cloruros. , 2020, , 1-21. | | 0 |
| 9 | Non-destructive evaluation of internal sulphate attack in cement-based materials applying non-linear ultrasonic techniques. , 2020, 67, . | | Ο |
| 10 | Rebar Shape Time-Evolution During a Reinforced Concrete Corrosion Test: An Electrochemical Model. Applied Sciences (Switzerland), 2019, 9, 3061. | 2.5 | 2 |
| 11 | Use of Non-Linear Ultrasonic Techniques to Detect Cracks Due to Steel Corrosion in Reinforced Concrete Structures. Materials, 2019, 12, 813. | 2.9 | 29 |
| 12 | Effects of Red Mud Addition in the Microstructure, Durability and Mechanical Performance of Cement Mortars. Applied Sciences (Switzerland), 2019, 9, 984. | 2.5 | 26 |
| 13 | Skin friction coefficient change on cement grouts for micropiles due to sulfate attack. Construction and Building Materials, 2018, 163, 80-86. | 7.2 | 12 |
| 14 | Effects of Environment in the Microstructure and Properties of Sustainable Mortars with Fly Ash and Slag after a 5-Year Exposure Period. Sustainability, 2018, 10, 663. | 3.2 | 9 |
| 15 | Long-term effects of waste brick powder addition in the microstructure and service properties of mortars. Construction and Building Materials, 2018, 182, 691-702. | 7.2 | 89 |
| 16 | Short-Term Performance of Sustainable Silica Fume Mortars Exposed to Sulfate Attack. Sustainability, 2018, 10, 2517. | 3.2 | 10 |
| 17 | Influence of Waste Glass Powder Addition on the Pore Structure and Service Properties of Cement Mortars. Sustainability, 2018, 10, 842. | 3.2 | 14 |
| 18 | Application of combined electrochemical treatments to reinforced concrete: Electrochemical chloride extraction plus cathodic protection. Hormigon Y Acero, 2018, , . | 0.2 | 0 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Depassivation time estimation in reinforced concrete structures exposed to chloride ingress: A probabilistic approach. Cement and Concrete Composites, 2017, 79, 21-33. | 10.7 | 22 |
| 20 | Influence of different ways of chloride contamination on the efficiency of cathodic protection applied on structural reinforced concrete elements. Journal of Electroanalytical Chemistry, 2017, 793, 8-17. | 3.8 | 23 |
| 21 | Influence of Silica Fume Addition in the Long-Term Performance of Sustainable Cement Grouts for Micropiles Exposed to a Sulphate Aggressive Medium. Materials, 2017, 10, 890. | 2.9 | 14 |
| 22 | Long-Term Behaviour of Fly Ash and Slag Cement Grouts for Micropiles Exposed to a Sulphate Aggressive Medium. Materials, 2017, 10, 598. | 2.9 | 30 |
| 23 | Short-Term Behavior of Slag Concretes Exposed to a Real In Situ Mediterranean Climate Environment. Materials, 2017, 10, 915. | 2.9 | 9 |
| 24 | Performance of Sustainable Fly Ash and Slag Cement Mortars Exposed to Simulated and Real In Situ Mediterranean Conditions along 90 Warm Season Days. Materials, 2017, 10, 1254. | 2.9 | 20 |
| 25 | Non-Destructive Study of the Microstructural Effects of Sodium and Magnesium Sulphate Attack on Mortars Containing Silica Fume Using Impedance Spectroscopy. Applied Sciences (Switzerland), 2017, 7, 648. | 2.5 | 31 |
| 26 | Impedance Spectroscopy Study of the Effect of Environmental Conditions on the Microstructure Development of Sustainable Fly Ash Cement Mortars. Materials, 2017, 10, 1130. | 2.9 | 12 |
| 27 | Graphite–Cement Paste: A New Coating of Reinforced Concrete Structural Elements for the Application of Electrochemical Anti-Corrosion Treatments. Coatings, 2016, 6, 32. | 2.6 | 19 |
| 28 | Microstructure and durability of fly ash cement grouts for micropiles. Construction and Building Materials, 2016, 117, 47-57. | 7.2 | 37 |
| 29 | Comparison BetweenDcritConsidering the Abrupt Variation and Inï¬,exion in the Concrete Mercury Intrusion Porosimetry Curve. Experimental Techniques, 2015, 39, 43-52. | 1.5 | 4 |
| 30 | Chloride Penetration Prediction in Concrete through an Empirical Model Based on Constant Flux Diffusion. Journal of Materials in Civil Engineering, 2015, 27, . | 2.9 | 13 |
| 31 | Shape Effect of Electrochemical Chloride Extraction in Structural Reinforced Concrete Elements Using a New Cement-Based Anodic System. Materials, 2015, 8, 2901-2917. | 2.9 | 16 |
| 32 | Procedure for calculating the chloride diffusion coefficient and surface concentration from a profile having a maximum beyond the concrete surface. Materials and Structures/Materiaux Et Constructions, 2015, 48, 863-869. | 3.1 | 61 |
| 33 | Efficiency of a conductive cement-based anodic system for the application of cathodic protection, cathodic prevention and electrochemical chloride extraction to control corrosion in reinforced concrete structures. Corrosion Science, 2015, 96, 102-111. | 6.6 | 92 |
| 34 | Impedance spectroscopy study of the effect of environmental conditions in the microstructure development of OPC and slag cement mortars. Archives of Civil and Mechanical Engineering, 2015, 15, 569-583. | 3.8 | 48 |
| 35 | Durability and compressive strength of blast furnace slag-based cement grout for special geotechnical applications. Materiales De Construccion, 2014, 64, e003. | 0.7 | 20 |
| 36 | Moisture Distribution in Partially Saturated Concrete Studied by Impedance Spectroscopy. Journal of Nondestructive Evaluation, 2013, 32, 362-371. | 2.4 | 35 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Feasibility of electrochemical chloride extraction from structural reinforced concrete using a sprayed conductive graphite powder–cement paste as anode. Corrosion Science, 2013, 77, 128-134. | 6.6 | 54 |
| 38 | An improved procedure for obtaining and maintaining well characterized partial water saturation states on concrete samples to be used for mass transport tests. Materials and Structures/Materiaux Et Constructions, 2013, 46, 1389-1400. | 3.1 | 22 |
| 39 | Recommendation of RILEM TC 178-TMC: Testing and modelling chloride penetration in concrete*. Materials and Structures/Materiaux Et Constructions, 2013, 46, 337-344. | 3.1 | 36 |
| 40 | Influence of using slag cement on the microstructure and durability related properties of cement grouts for micropiles. Construction and Building Materials, 2013, 38, 84-93. | 7.2 | 25 |
| 41 | Viabilidad de utilización de una pasta de cemento con nanofibras de carbono como ánodo en la extracción electroquÃmica de cloruros en hormigón. Materiales De Construccion, 2013, 63, 39-48. | 0.7 | 14 |
| 42 | Influencia de diferentes condiciones de curado en la estructura porosa y en las propiedades a edades tempranas de morteros que contienen ceniza volante y escoria de alto horno. Materiales De Construccion, 2013, 63, 219-234. | 0.7 | 17 |
| 43 | Durability related transport properties of OPC and slag cement mortars hardened under different environmental conditions. Construction and Building Materials, 2012, 27, 176-183. | 7.2 | 39 |
| 44 | Impedance spectroscopy: An efficient tool to determine the nonâ€steadyâ€state chloride diffusion coefficient in building materials. Materials and Corrosion - Werkstoffe Und Korrosion, 2011, 62, 139-145. | 1.5 | 30 |
| 45 | Determination of chloride diffusivity through partially saturated Portland cement concrete by a simplified procedure. Construction and Building Materials, 2011, 25, 785-790. | 7.2 | 55 |
| 46 | Determination of the selectivity coefficient of a chloride ion selective electrode in alkaline media simulating the cement paste pore solution. Journal of Electroanalytical Chemistry, 2010, 639, 43-49. | 3.8 | 31 |
| 47 | Electrochemical extraction of chlorides from reinforced concrete using a conductive cement paste as the anode. Corrosion Science, 2010, 52, 1576-1581. | 6.6 | 71 |
| 48 | Improvement of the chloride ingress resistance of OPC mortars by using spent cracking catalyst. Cement and Concrete Research, 2009, 39, 126-139. | 11.0 | 27 |
| 49 | Investigation of performance properties of novel composite fire-extinguishing powders based on mineral raw materials. WIT Transactions on Engineering Sciences, 2009, , . | 0.0 | 3 |
| 50 | Experimental confirmation of some aspects of the microstructural model of the impedance spectra of porous materials. , 2009, , . | | 1 |
| 51 | Influence of curing conditions on the mechanical properties and durability of cement mortars. , 2009, , . | | 9 |
| 52 | Microstructural modifications in Portland cement concrete due to forced ionic migration tests. Study by impedance spectroscopy. Cement and Concrete Research, 2008, 38, 1015-1025. | 11.0 | 102 |
| 53 | A test method for measuring chloride diffusion coefficients through partially saturated concrete. Part II: The instantaneous plane source diffusion case with chloride binding consideration. Cement and Concrete Research, 2007, 37, 714-724. | 11.0 | 82 |
| 54 | Impedance spectroscopy as a tool to study modifications in the microstructure of concrete in ionic migration experiments. WIT Transactions on Engineering Sciences, 2007, , . | 0.0 | 0 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Use of impedance spectroscopy to determine the displacement of water in cement paste under small loads. WIT Transactions on Engineering Sciences, 2007, , . | 0.0 | 0 |
| 56 | Effect of the reinforcement bar arrangement on the efficiency of electrochemical chloride removal technique applied to reinforced concrete structures. Corrosion Science, 2006, 48, 531-545. | 6.6 | 52 |
| 57 | Round-Robin Test on methods for determining chloride transport parameters in concrete. Materials and Structures/Materiaux Et Constructions, 2006, 39, 955-990. | 3.1 | 46 |
| 58 | Extracción electroquÃmica de cloruros del hormigón armado: estudio de diferentes variables que influyen en la eficiencia del tratamiento. Materiales De Construccion, 2006, 56, . | 0.7 | 6 |
| 59 | Ceneralization of the possibility of eliminating the filtration step in the determination of acid-soluble chloride content in cement and concrete by potentiometric titration. Cement and Concrete Research, 2004, 34, 2291-2295. | 11.0 | 26 |
| 60 | A test method for measuring chloride diffusion coefficients through nonsaturated concrete. Cement and Concrete Research, 2002, 32, 1113-1123. | 11.0 | 110 |
| 61 | Bit shape geometric considerations when sampling by dry drilling for obtaining chloride profiles in concrete. Materials and Structures/Materiaux Et Constructions, 2001, 34, 150-154. | 3.1 | 3 |
| 62 | Chlorideâ€lon Activities in Simplified Synthetic Concrete Pore Solutions: The Effect of the Accompanying Ions. Journal of the American Ceramic Society, 2000, 83, 640-644. | 3.8 | 21 |
| 63 | Analysis of acid-soluble chloride in cement, mortar, and concrete by potentiometric titration without filtration steps. Cement and Concrete Research, 1999, 29, 893-898. | 11.0 | 35 |
| 64 | Embeddable Ag/AgCl sensors for in-situ monitoring chloride contents in concrete. Cement and Concrete Research, 1996, 26, 1157-1161. | 11.0 | 76 |
| 65 | Proof by UV-visible modulated reflectance spectroscopy of the breakdown by carbonation of the passivating layer on iron in alkaline solution. Surface Science, 1995, 330, L651-L656. | 1.9 | 17 |
| 66 | FTIR study of surface structure influence on the electrochemical behaviour of the ascorbate anion at platinum electrodes in neutral solutions. Journal of Electroanalytical Chemistry, 1994, 374, 263-268. | 3.8 | 3 |
| 67 | Voltammetric and subtractively normalized interfacial FTIR study of the adsorption and oxidation ofL(+)-ascorbic acid on Pt electrodes in acid medium: effect of Bi adatoms. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 609-615. | 1.7 | 9 |
| 68 | Alkali metal cations and pH effects on a splitting of the unusual adsorption states of Pt(111) voltammograms in phosphate buffered solutions. Journal of Electroanalytical Chemistry, 1993, 345, 475-481. | 3.8 | 30 |
| 69 | The behaviour of platinum single-crystal electrodes in neutral phosphate buffered solutions. Journal of Electroanalytical Chemistry, 1992, 326, 113-127. | 3.8 | 35 |
| 70 | Behaviour of the Cr(III)/Cr(II) reaction on goldî—graphite electrodes. Application to redox flow storage cell. Journal of Power Sources, 1991, 35, 225-234. | 7.8 | 30 |
| 71 | Electrocatalytic oxidation of L(+)-ascorbic acid on single crystal Pt surfaces modified by irreversibly adsorbed Bi. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1989, 260, 237-244. | 0.1 | 18 |