

# Pedro Garces

## List of Publications by Year in descending order

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53  
papers

2,506  
citations

172457

29  
h-index

189892

50  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1940  
citing authors

#	ARTICLE	IF	CITATIONS
1	Strain and damage sensing properties on multifunctional cement composites with CNF admixture. Cement and Concrete Composites, 2014, 46, 90-98.	10.7	210
2	Multifunctional Cement Composites Strain and Damage Sensors Applied on Reinforced Concrete (RC) Structural Elements. Materials, 2013, 6, 841-855.	2.9	139
3	Self-heating and deicing conductive cement. Experimental study and modeling. Construction and Building Materials, 2015, 75, 442-449.	7.2	138
4	Spectroelectrochemical study of the oxidation of aminophenols on platinum electrode in acid medium. Journal of Electroanalytical Chemistry, 2004, 565, 375-383.	3.8	137
5	Portland cement systems with addition of sewage sludge ash. Application in concretes for the manufacture of blocks. Journal of Cleaner Production, 2014, 82, 112-124.	9.3	113
6	Mechanical and physical properties of cement blended with sewage sludge ash. Waste Management, 2008, 28, 2495-2502.	7.4	110
7	Mechanical Properties and Durability of CNT Cement Composites. Materials, 2014, 7, 1640-1651.	2.9	103
8	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
9	Effect of nitrite in corrosion of reinforcing steel in neutral and acid solutions simulating the electrolytic environments of micropores of concrete in the propagation period. Corrosion Science, 2008, 50, 498-509.	6.6	84
10	Effect of carbon fibres on the mechanical properties and corrosion levels of reinforced portland cement mortars. Cement and Concrete Research, 2005, 35, 324-331.	11.0	82
11	Highly Conductive Carbon Fiber Reinforced Concrete for Icing Prevention and Curing. Materials, 2016, 9, 281.	2.9	78
12	Electrochemical extraction of chlorides from reinforced concrete using a conductive cement paste as the anode. Corrosion Science, 2010, 52, 1576-1581.	6.6	71
13	Corrosion of reinforcing steel in neutral and acid solutions simulating the electrolytic environments in the micropores of concrete in the propagation period. Corrosion Science, 2005, 47, 289-306.	6.6	63
14	Self-Sensing Properties of Alkali Activated Blast Furnace Slag (BFS) Composites Reinforced with Carbon Fibers. Materials, 2013, 6, 4776-4786.	2.9	61
15	Influence of pH on the nitrite corrosion inhibition of reinforcing steel in simulated concrete pore solution. Corrosion Science, 2011, 53, 3991-4000.	6.6	59
16	Mechanical properties and corrosion of CAC mortars with carbon fibers. Construction and Building Materials, 2012, 34, 91-96.	7.2	54
17	Feasibility of electrochemical chloride extraction from structural reinforced concrete using a sprayed conductive graphite powderâ€¢cement paste as anode. Corrosion Science, 2013, 77, 128-134.	6.6	54
18	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

#	ARTICLE	IF	CITATIONS
19	Corrosion Behavior of Steel Reinforcement in Concrete with Recycled Aggregates, Fly Ash and Spent Cracking Catalyst. <i>Materials</i> , 2014, 7, 3176-3197.	2.9	52
20	Performance of cement-based sensors with CNT for strain sensing. <i>Advances in Cement Research</i> , 2016, 28, 274-284.	1.6	51
21	Chloride-induced corrosion of steel embedded in mortars containing fly ash and spent cracking catalyst. <i>Corrosion Science</i> , 2008, 50, 1567-1575.	6.6	50
22	Corrosion of steel reinforcement in structural concrete with carbon material addition. <i>Corrosion Science</i> , 2007, 49, 2557-2566.	6.6	49
23	Blending of industrial waste from different sources as partial substitution of Portland cement in pastes and mortars. <i>Construction and Building Materials</i> , 2014, 66, 645-653.	7.2	45
24	Galvanic currents and corrosion rates of reinforcements measured in cells simulating different pitting areas caused by chloride attack in sodium hydroxide. <i>Corrosion Science</i> , 2008, 50, 2959-2964.	6.6	43
25	The effect of processed fly ashes on the durability and the corrosion of steel rebars embedded in cement-modified fly ash mortars. <i>Cement and Concrete Composites</i> , 2010, 32, 204-210.	10.7	43
26	Corrosion behaviour at the interface of steel bars embedded in cement slurries. <i>Corrosion Science</i> , 2002, 44, 2805-2816.	6.6	37
27	Carbon Nanofiber Cement Sensors to Detect Strain and Damage of Concrete Specimens Under Compression. <i>Nanomaterials</i> , 2017, 7, 413.	4.1	32
28	Efecto de la adición de nanofibras de carbono en las propiedades mecánicas y de durabilidad de materiales cementantes. <i>Materiales De Construccion</i> , 2012, 62, 343-357.	0.7	32
29	Electrochemical study of polypyrrole/ coatings on carbon steel electrodes as protection against corrosion in chloride aqueous solutions. <i>Corrosion Science</i> , 2006, 48, 1122-1136.	6.6	31
30	Improvement of the chloride ingress resistance of OPC mortars by using spent cracking catalyst. <i>Cement and Concrete Research</i> , 2009, 39, 126-139.	11.0	27
31	Heating and de-icing function in conductive concrete and cement paste with the hybrid addition of carbon nanotubes and graphite products. <i>Smart Materials and Structures</i> , 2021, 30, 045010.	3.5	27
32	Accelerated carbonation of cement pastes partially substituted with fluid catalytic cracking catalyst residue (FC3R). <i>Cement and Concrete Composites</i> , 2009, 31, 134-138.	10.7	23
33	The carbonation of OPC mortars partially substituted with spent fluid catalytic catalyst (FC3R) and its influence on their mechanical properties. <i>Construction and Building Materials</i> , 2009, 23, 1323-1328.	7.2	23
34	Temperature and humidity influence on the strain sensing performance of hybrid carbon nanotubes and graphite cement composites. <i>Construction and Building Materials</i> , 2021, 284, 122786.	7.2	22
35	Función de apantallamiento de interferencia electromagnética de pastas de cemento con materiales carbonosos y cenizas volantes procesadas. <i>Materiales De Construccion</i> , 2010, 60, 21-32.	0.7	22
36	Influence of the Oxidation Process of Carbon Material on the Mechanical Properties of Cement Mortars. <i>Journal of Materials in Civil Engineering</i> , 2011, 23, 321-329.	2.9	21

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37	Graphite-Cement Paste: A New Coating of Reinforced Concrete Structural Elements for the Application of Electrochemical Anti-Corrosion Treatments. <i>Coatings</i> , 2016, 6, 32.	2.6	19
38	Carbonation rate and reinforcing steel corrosion rate of OPC/FC3R/FA mortars under accelerated conditions. <i>Advances in Cement Research</i> , 2009, 21, 15-22.	1.6	17
39	Electropolymerization of Phenol on Carbon Steel and Stainless Steel Electrodes in Carbonate Aqueous Medium. <i>Polymer Journal</i> , 2000, 32, 623-628.	2.7	16
40	Shape Effect of Electrochemical Chloride Extraction in Structural Reinforced Concrete Elements Using a New Cement-Based Anodic System. <i>Materials</i> , 2015, 8, 2901-2917.	2.9	16
41	Compatibility of fluid catalytic cracking catalyst residue (FC3R) with various types of cement. <i>Advances in Cement Research</i> , 2007, 19, 117-124.	1.6	15
42	Pozzolanic activity of a spent fluid catalytic cracking catalyst residue. <i>Advances in Cement Research</i> , 2011, 23, 105-111.	1.6	15
43	Viabilidad de utilizaci3n de una pasta de cemento con nanofibras de carbono como 3nodo en la extracci3n electroqu3mica de cloruros en hormig3n. <i>Materiales De Construccion</i> , 2013, 63, 39-48.	0.7	14
44	Metallic corrosion of steels embedded in calcium aluminate cement mortars. <i>Cement and Concrete Research</i> , 2001, 31, 1263-1269.	11.0	12
45	Characterisation and corrosion studies of steel electrodes covered by polypyrrole/phosphotungstate using Electrochemical Impedance Spectroscopy. <i>Progress in Organic Coatings</i> , 2009, 66, 235-241.	3.9	11
46	General study of alkaline hydrolysis in calcium aluminate cement mortars under a broad range of experimental conditions. <i>Cement and Concrete Research</i> , 2000, 30, 1689-1699.	11.0	9
47	Electrochemical and chemical characterization of polypyrrole/phosphotungstate coatings electrosynthesized on carbon steel electrodes in acetonitrile medium. <i>Synthetic Metals</i> , 2009, 159, 1723-1730.	3.9	8
48	Self-heating function of carbon nanofiber cement pastes. <i>Materiales De Construccion</i> , 2014, 64, e015.	0.7	8
49	Ice-Prevention and De-Icing Capacity of Epoxy Resin Filled with Hybrid Carbon-Nanostructured Forms: Self-Heating by Joule Effect. <i>Nanomaterials</i> , 2021, 11, 2427.	4.1	7
50	Composition of Corroded Reinforcing Steel Surface in Solutions Simulating the Electrolytic Environments in the Micropores of Concrete in the Propagation Period. <i>Materials</i> , 2022, 15, 2216.	2.9	4
51	Concrete for Precast Blocks: Binary and Ternary Combination of Sewage Sludge Ash with Diverse Mineral Residue. <i>Materials</i> , 2020, 13, 4634.	2.9	3
52	Durability and Mechanical Properties of CNT Cement Composites. <i>RILEM Bookseries</i> , 2019, , 31-41.	0.4	2
53	Application of combined electrochemical treatments to reinforced concrete: Electrochemical chloride extraction plus cathodic protection. <i>Hormigon Y Acero</i> , 2018, , .	0.2	0