

# Pedro Garces

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52  
papers

1,871  
citations

27  
h-index

42  
g-index

53  
ext. papers

2,158  
ext. citations

5.2  
avg, IF

4.79  
L-index

#	Paper	IF	Citations
52	Composition of Corroded Reinforcing Steel Surface in Solutions Simulating the Electrolytic Environments in the Micropores of Concrete in the Propagation Period.. <i>Materials</i> , <b>2022</b> , 15,	3.5	2
51	Temperature and humidity influence on the strain sensing performance of hybrid carbon nanotubes and graphite cement composites. <i>Construction and Building Materials</i> , <b>2021</b> , 284, 122786	6.7	5
50	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> , <b>2021</b> , 30, 045010	3.4	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> , <b>2021</b> , 11,	5.4	1
48	Concrete for Precast Blocks: Binary and Ternary Combination of Sewage Sludge Ash with Diverse Mineral Residue. <i>Materials</i> , <b>2020</b> , 13,	3.5	1
47	Durability and Mechanical Properties of CNT Cement Composites. <i>RILEM Bookseries</i> , <b>2019</b> , 31-41	0.5	2
46	Carbon Nanofiber Cement Sensors to Detect Strain and Damage of Concrete Specimens Under Compression. <i>Nanomaterials</i> , <b>2017</b> , 7,	5.4	22
45	Performance of cement-based sensors with CNT for strain sensing. <i>Advances in Cement Research</i> , <b>2016</b> , 28, 274-284	1.8	38
44	Graphite Cement Paste: A New Coating of Reinforced Concrete Structural Elements for the Application of Electrochemical Anti-Corrosion Treatments. <i>Coatings</i> , <b>2016</b> , 6, 32	2.9	14
43	Highly Conductive Carbon Fiber Reinforced Concrete for Icing Prevention and Curing. <i>Materials</i> , <b>2016</b> , 9,	3.5	57
42	Self-heating and deicing conductive cement. Experimental study and modeling. <i>Construction and Building Materials</i> , <b>2015</b> , 75, 442-449	6.7	92
41	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. <i>Corrosion Science</i> , <b>2015</b> , 96, 102-111	6.8	64
40	Shape Effect of Electrochemical Chloride Extraction in Structural Reinforced Concrete Elements Using a New Cement-Based Anodic System. <i>Materials</i> , <b>2015</b> , 8, 2901-2917	3.5	8
39	Portland cement systems with addition of sewage sludge ash. Application in concretes for the manufacture of blocks. <i>Journal of Cleaner Production</i> , <b>2014</b> , 82, 112-124	10.3	85
38	Blending of industrial waste from different sources as partial substitution of Portland cement in pastes and mortars. <i>Construction and Building Materials</i> , <b>2014</b> , 66, 645-653	6.7	39
37	Corrosion Behavior of Steel Reinforcement in Concrete with Recycled Aggregates, Fly Ash and Spent Cracking Catalyst. <i>Materials</i> , <b>2014</b> , 7, 3176-3197	3.5	36
36	Mechanical Properties and Durability of CNT Cement Composites. <i>Materials</i> , <b>2014</b> , 7, 1640-1651	3.5	78

35	Strain and damage sensing properties on multifunctional cement composites with CNF admixture. <i>Cement and Concrete Composites</i> , <b>2014</b> , 46, 90-98	8.6	161
34	Self-heating function of carbon nanofiber cement pastes. <i>Materiales De Construccion</i> , <b>2014</b> , 64, e015	1.8	4
33	Feasibility of electrochemical chloride extraction from structural reinforced concrete using a sprayed conductive graphite powder cement paste as anode. <i>Corrosion Science</i> , <b>2013</b> , 77, 128-134	6.8	29
32	Self-Sensing Properties of Alkali Activated Blast Furnace Slag (BFS) Composites Reinforced with Carbon Fibers. <i>Materials</i> , <b>2013</b> , 6, 4776-4786	3.5	42
31	Multifunctional Cement Composites Strain and Damage Sensors Applied on Reinforced Concrete (RC) Structural Elements. <i>Materials</i> , <b>2013</b> , 6, 841-855	3.5	111
30	Viabilidad de utilizaci3n de una pasta de cemento con nanofibras de carbono como 6odo en la extracci3n electroqu6mica de cloruros en hormig3n. <i>Materiales De Construccion</i> , <b>2013</b> , 63, 39-48	1.8	10
29	Mechanical properties and corrosion of CAC mortars with carbon fibers. <i>Construction and Building Materials</i> , <b>2012</b> , 34, 91-96	6.7	40
28	Efecto de la adici3n de nanofibras de carbono en las propiedades mec3nicas y de durabilidad de materiales cementantes. <i>Materiales De Construccion</i> , <b>2012</b> , 62, 343-357	1.8	25
27	Influence of pH on the nitrite corrosion inhibition of reinforcing steel in simulated concrete pore solution. <i>Corrosion Science</i> , <b>2011</b> , 53, 3991-4000	6.8	39
26	Influence of the Oxidation Process of Carbon Material on the Mechanical Properties of Cement Mortars. <i>Journal of Materials in Civil Engineering</i> , <b>2011</b> , 23, 321-329	3	16
25	Pozzolanic activity of a spent fluid catalytic cracking catalyst residue. <i>Advances in Cement Research</i> , <b>2011</b> , 23, 105-111	1.8	10
24	Electrochemical extraction of chlorides from reinforced concrete using a conductive cement paste as the anode. <i>Corrosion Science</i> , <b>2010</b> , 52, 1576-1581	6.8	48
23	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> , <b>2010</b> , 32, 204-210	8.6	30
22	Funci3n de apantallamiento de interferencia electromagn6tica de pastas de cemento con materiales carbonosos y cenizas volantes procesadas. <i>Materiales De Construccion</i> , <b>2010</b> , 60, 21-32	1.8	18
21	Carbonation rate and reinforcing steel corrosion rate of OPC/FC3R/FA mortars under accelerated conditions. <i>Advances in Cement Research</i> , <b>2009</b> , 21, 15-22	1.8	9
20	Characterisation and corrosion studies of steel electrodes covered by polypyrrole/phosphotungstate using Electrochemical Impedance Spectroscopy. <i>Progress in Organic Coatings</i> , <b>2009</b> , 66, 235-241	4.8	10
19	Accelerated carbonation of cement pastes partially substituted with fluid catalytic cracking catalyst residue (FC3R). <i>Cement and Concrete Composites</i> , <b>2009</b> , 31, 134-138	8.6	19
18	Improvement of the chloride ingress resistance of OPC mortars by using spent cracking catalyst. <i>Cement and Concrete Research</i> , <b>2009</b> , 39, 126-139	10.3	21

17	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> , <b>2009</b> , 23, 1323-1328	6.7	19
16	Electrochemical and chemical characterization of polypyrrole/phosphotungstate coatings electrosynthesized on carbon steel electrodes in acetonitrile medium. <i>Synthetic Metals</i> , <b>2009</b> , 159, 1723-1730	6.6	7
15	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. <i>Corrosion Science</i> , <b>2008</b> , 50, 498-509	6.8	62
14	Chloride-induced corrosion of steel embedded in mortars containing fly ash and spent cracking catalyst. <i>Corrosion Science</i> , <b>2008</b> , 50, 1567-1575	6.8	43
13	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> , <b>2008</b> , 50, 2959-2964	6.8	35
12	Mechanical and physical properties of cement blended with sewage sludge ash. <i>Waste Management</i> , <b>2008</b> , 28, 2495-502	8.6	84
11	Compatibility of fluid catalytic cracking catalyst residue (FC3R) with various types of cement. <i>Advances in Cement Research</i> , <b>2007</b> , 19, 117-124	1.8	13
10	Corrosion of steel reinforcement in structural concrete with carbon material addition. <i>Corrosion Science</i> , <b>2007</b> , 49, 2557-2566	6.8	39
9	Effect of the reinforcement bar arrangement on the efficiency of electrochemical chloride removal technique applied to reinforced concrete structures. <i>Corrosion Science</i> , <b>2006</b> , 48, 531-545	6.8	39
8	Electrochemical study of polypyrrole/PW12O403- coatings on carbon steel electrodes as protection against corrosion in chloride aqueous solutions. <i>Corrosion Science</i> , <b>2006</b> , 48, 1122-1136	6.8	27
7	Corrosion of reinforcing steel in neutral and acid solutions simulating the electrolytic environments in the micropores of concrete in the propagation period. <i>Corrosion Science</i> , <b>2005</b> , 47, 289-306	6.8	55
6	Effect of carbon fibres on the mechanical properties and corrosion levels of reinforced portland cement mortars. <i>Cement and Concrete Research</i> , <b>2005</b> , 35, 324-331	10.3	67
5	Spectroelectrochemical study of the oxidation of aminophenols on platinum electrode in acid medium. <i>Journal of Electroanalytical Chemistry</i> , <b>2004</b> , 565, 375-383	4.1	122
4	Corrosion behaviour at the interface of steel bars embedded in cement slurries: Effect of phenol polymer coatings. <i>Corrosion Science</i> , <b>2002</b> , 44, 2805-2816	6.8	35
3	Metallic corrosion of steels embedded in calcium aluminate cement mortars. <i>Cement and Concrete Research</i> , <b>2001</b> , 31, 1263-1269	10.3	9
2	General study of alkaline hydrolysis in calcium aluminate cement mortars under a broad range of experimental conditions. <i>Cement and Concrete Research</i> , <b>2000</b> , 30, 1689-1699	10.3	7
1	Electropolymerization of Phenol on Carbon Steel and Stainless Steel Electrodes in Carbonate Aqueous Medium. <i>Polymer Journal</i> , <b>2000</b> , 32, 623-628	2.7	14