Ral Garca Carrodeguas

List of Publications by Citations

53 papers	1,241 citations	19 h-index	34 g-index
55 ext. papers	1,370 ext. citations	3.5 avg, IF	4.4 L-index

#	Paper	IF	Citations
53	Tricalcium phosphate: synthesis, properties and biomedical applications. *Acta Biomaterialia*, **2011**, 7, 3536-46	10.8	337
52	New Approach to the Polymorphic Transformation in Magnesium-Substituted Tricalcium Phosphate and its Practical Implications. *Journal of the American Ceramic Society*, **2008**, 91, 1281-1286	3.8	79
51	Influence of polymeric additives on the mechanical properties of alpha-tricalcium phosphate cement. *Bone*, **1999**, 25, 99S-102S	4.7	62
50	Fiber reinforced calcium phosphate cement. *Artificial Organs*, **2000**, 24, 212-6	2.6	58
49	Alpha-tricalcium phosphate cement: "in vitro" cytotoxicity. *Biomaterials*, **2002**, 23, 2035-42	15.6	50
48	Bone-like forming ability of apatite wollastonite glass ceramic. *Journal of the European Ceramic Society*, **2011**, 31, 1549-1561	6	46
47	Hydroxyapatite suspensions as precursors of pieces obtained by gelcasting method. *Journal of the European Ceramic Society*, **2004**, 24, 2223-2232	6	39
46	Dual-setting calcium phosphate cement modified with ammonium polyacrylate. *Artificial Organs*, **2003**, 27, 412-8	2.6	37
45	Chitosan/apatite composite beads prepared by in situ generation of apatite or Si-apatite nanocrystals. *Acta Biomaterialia*, **2010**, 6, 466-76	10.8	35
44	Injectable acrylic bone cements for vertebroplasty with improved properties. *Journal of Biomedical Materials Research Part B*, **2004**, 68, 94-104		34
43	Assessment of natural and synthetic wollastonite as source for bioceramics preparation. *Journal of Biomedical Materials Research - Part A*, **2007**, 83, 484-95	5.4	30
42	Effect of Mg and Si co-substitution on microstructure and strength of tricalcium phosphate ceramics. *Journal of the Mechanical Behavior of Biomedical Materials*, **2014**, 30, 1-15	4.1	28
41	Bioactive composite bone cement based on tricalcium phosphate/tricalcium silicate. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2012**, 100, 94-102	3.5	28
40	Devitrification studies of wollastonite-tricalcium phosphate eutectic glass. *Acta Biomaterialia*, **2009**, 5, 3057-66	10.8	28
39	Synthesis, characterization, bioactivity and biocompatibility of nanostructured materials based on the wollastonite-poly(ethylmethacrylate-co-vinylpyrrolidone) system. *Journal of Biomedical Materials Research - Part A*, **2009**, 88, 53-64	5.4	27
38	Revisiting the Phase-Equilibrium Diagram of the Ca3(PO4)2CaMg(SiO3)2 System. *Journal of the American Ceramic Society*, **2010**, 93, 561-569	3.8	25
37	Effect of sterilization on the properties of CDHA-OCP-beta-TCP biomaterial. *Materials Research*, **2007**, 10, 15-20	1.5	24

36	Fiber-enriched double-setting calcium phosphate bone cement. *Journal of Biomedical Materials Research - Part A*, **2003**, 65, 244-50	5.4	24
35	Processing of hydroxyapatite obtained by combustion synthesis. *Boletin De La Sociedad Espanola De Ceramica Y Vidrio*, **2017**, 56, 237-242	1.9	20
34	Dicalcium silicate-based cement: synthesis, characterization and in vitro bioactivity and biocompatibility studies. *Journal of Biomedical Materials Research - Part A*, **2014**, 102, 3693-703	5.4	17
33	Biological Response to Wollastonite Doped Tricalcium Phosphate Implants in Hard and Soft Tissues in Rats. *Key Engineering Materials*, **2008**, 396-398, 7-10	0.4	17
32	Preparation and In Vitro Characterization of Wollastonite Doped Tricalcium Phosphate Bioceramics. *Key Engineering Materials*, **2007**, 361-363, 237-240	0.4	17
31	Feasibility of ceramic-polymer composite cryogels as scaffolds for bone tissue engineering. *Journal of Tissue Engineering and Regenerative Medicine*, **2012**, 6, 421-33	4.4	15
30	Mg-Free Precursors for the Synthesis of Pure Phase Si-Doped Ca3(PO4)2. *Key Engineering Materials*, **2007**, 361-363, 199-202	0.4	15
29	Tricalcium phosphate cements modified with dicalcium silicate and tricalcium aluminate: physicochemical characterization, in vitro bioactivity and cytotoxicity. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2015**, 103, 72-83	3.5	14
28	Hydrothermal method for preparing calcium phosphate monoliths. *Materials Research*, **2003**, 6, 395-401	1.5	14
27	Synthesis and in vivo evaluation of a scaffold containing wollastonite/TCP for bone repair in a rabbit tibial defect model. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2020**, 108, 1107-1116	3.5	11
26	Influence of Si substitution on the reactivity of tricalcium phosphate. *Materials Science and Engineering C*, **2017**, 75, 816-821	8.3	9
25	Evaluation of n-butyl cyanoacrylate adhesive in rat subcutaneous tissue. *Dermatologic Surgery*, **2012**, 38, 767-71	1.7	9
24	Transformations in CDHA/OCP/beta-TCP scaffold during ageing in simulated body fluid at 36.5 degrees C. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2008**, 84, 386-93	3.5	8
23	Si-TCP synthesized from "Mg-free" reagents employed as calcium phosphate cement. *Materials Research*, **2012**, 15, 568-572	1.5	7
22	Si-tricalcium phosphate cement: preparation, characterization and bioactivity in SBF. *Materials Research*, **2011**, 14, 493-498	1.5	7
21	Preparation, characterization, and in vitro evaluation of nanostructured chitosan/apatite and chitosan/Si-doped apatite composites. *Journal of Materials Science*, **2013**, 48, 841-849	4.3	6
20	In situ Synchrotron X-ray Powder Diffraction Study of the Early Hydration of tricalcium Phosphate/tricalcium Silicate Composite Bone Cement. *Materials Research*, **2015**, 18, 164-169	1.5	6
19	Effects of silica addition on the chemical, mechanical and biological properties of a new Tricalcium Phosphate/Tricalcium Silicate Cement. *Materials Research*, **2011**, 14, 475-482	1.5	6

18	Development of wollastonite-poly(ethylmethacrylate co-vinylpyrrolidone) based materials for multifunctional devices. *Journal of Biomedical Materials Research - Part A*, **2007**, 81, 603-10	5.4	6
17	Barium titanate-filled bone cements. I. Chemical, physical, and mechanical characterization. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2002**, 51, 591-605	3	6
16	Injectable β-TCP/MCPM cement associated with mesoporous silica for bone regeneration: characterization and toxicity evaluation. *Biomedical Materials (Bristol)*, **2018**, 13, 025023	3.5	5
15	Synthesis of Wollastonite Powders by Combustion Method: Role of Amount of Fuel. *International Journal of Chemical Engineering*, **2018**, 2018, 1-8	2.2	5
14	Las principales contribuciones de Salvador de Aza a las Biocerámicas. *Boletin De La Sociedad Espanola De Ceramica Y Vidrio*, **2011**, 50, 301-309	1.9	4
13	Development and characterization of β-tricalcium phosphate/monocalcium aluminate composite bone cement. *Journal of Biomedical Science and Engineering*, **2012**, 05, 448-456	0.7	4
12	New cement based on calcium and strontium aluminates for endodontics. *Ceramics International*, **2019**, 45, 19784-19792	5.1	3
11	Novel Osteoinductive and Osteogenic Scaffolds of Monetite, Amorphous Calcium Phosphate, Hydroxyapatite, and Silica Gel: Influence of the Hydroxyapatite/Monetite Ratio on Their Behavior and on Their Physical and Chemical Properties. *ACS Biomaterials Science and Engineering*, **2020**, 6, 3440-3453	5.5	3
10	Manufacturing of calcium phosphate scaffolds by pseudomorphic transformation of gypsum. *Boletin De La Sociedad Espanola De Ceramica Y Vidrio*, **2016**, 55, 105-113	1.9	2
9	Novel Nanostructured Zn-substituted Monetite Based Biomaterial for Bone Regeneration. *Journal of Nanomedicine & Nanotechnology*, **2015**, 06,	1.9	2
8	A Comparative Study between β-TCP and Si-β-TCP Calcium Phosphate Cement. *Key Engineering Materials*, **2008**, 396-398, 201-204	0.4	2
7	Influence of Mixing Liquid on the Properties of Calcium Aluminate Cement. *Key Engineering Materials*, **2008**, 396-398, 241-244	0.4	2
6	Wollastonite-Poly(Ethylmethacrylate-Co-Vinylpyrrolydone) Nanostructured Materials: Mechanical Properties and Biocompatibility. *Key Engineering Materials*, **2006**, 309-311, 1149-1152	0.4	2
5	Photopolymerization of "dual-setting" β-tricalcium phosphate cements. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2002**, 51, 577-589	3	2
4	Combustion synthesis and characterization of Sr3Al2O6. *International Journal of Applied Ceramic Technology*, **2019**, 16, 595-601	2	2
3	Bone regeneration using Wollastonite/-TCP scaffolds implants in critical bone defect in rat calvaria. *Biomedical Physics and Engineering Express*, **2021**, 7,	1.5	1
2	Cementos Biomédicos de Fosfato Tricálcico Reforzados con Silicatos y Aluminatos de Calcio-Preparación, Caracterización y Estudios de biodegradación. *IFMBE Proceedings*, **2013**, 100-103	0.2	
1	Preparation and properties of β-tricalcium phosphate microspheres by spray drying. *Ceramica*, **2019**, 65, 599-604	1	