

Ral Garca Carrodegua

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.

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	Bone regeneration using Wollastonite/-TCP scaffolds implants in critical bone defect in rat calvaria. <i>Biomedical Physics and Engineering Express</i> , 2021 , 7,	1.5	1
52	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. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 3440-3453	5.5	3
51	Synthesis and in vivo evaluation of a scaffold containing wollastonite/ β -TCP for bone repair in a rabbit tibial defect model. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020 , 108, 1107-1116	3.5	11
50	New cement based on calcium and strontium aluminates for endodontics. <i>Ceramics International</i> , 2019 , 45, 19784-19792	5.1	3
49	Preparation and properties of β -tricalcium phosphate microspheres by spray drying. <i>Ceramica</i> , 2019 , 65, 599-604	1	
48	Combustion synthesis and characterization of Sr ₃ Al ₂ O ₆ . <i>International Journal of Applied Ceramic Technology</i> , 2019 , 16, 595-601	2	2
47	Injectable β -TCP/MCPM cement associated with mesoporous silica for bone regeneration: characterization and toxicity evaluation. <i>Biomedical Materials (Bristol)</i> , 2018 , 13, 025023	3.5	5
46	Synthesis of Wollastonite Powders by Combustion Method: Role of Amount of Fuel. <i>International Journal of Chemical Engineering</i> , 2018 , 2018, 1-8	2.2	5
45	Influence of Si substitution on the reactivity of β -tricalcium phosphate. <i>Materials Science and Engineering C</i> , 2017 , 75, 816-821	8.3	9
44	Processing of hydroxyapatite obtained by combustion synthesis. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2017 , 56, 237-242	1.9	20
43	Manufacturing of calcium phosphate scaffolds by pseudomorphic transformation of gypsum. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2016 , 55, 105-113	1.9	2
42	β -tricalcium phosphate cements modified with β -dicalcium silicate and tricalcium aluminate: physicochemical characterization, in vitro bioactivity and cytotoxicity. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 72-83	3.5	14
41	Novel Nanostructured Zn-substituted Monetite Based Biomaterial for Bone Regeneration. <i>Journal of Nanomedicine & Nanotechnology</i> , 2015 , 06,	1.9	2
40	In situ Synchrotron X-ray Powder Diffraction Study of the Early Hydration of β -tricalcium Phosphate/tricalcium Silicate Composite Bone Cement. <i>Materials Research</i> , 2015 , 18, 164-169	1.5	6
39	Effect of Mg and Si co-substitution on microstructure and strength of tricalcium phosphate ceramics. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 30, 1-15	4.1	28
38	β -dicalcium silicate-based cement: synthesis, characterization and in vitro bioactivity and biocompatibility studies. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 3693-703	5.4	17
37	Preparation, characterization, and in vitro evaluation of nanostructured chitosan/apatite and chitosan/Si-doped apatite composites. <i>Journal of Materials Science</i> , 2013 , 48, 841-849	4.3	6

36	Cementos Biomédicos de Fosfato Tricálcico Reforzados con Silicatos y Aluminatos de Calcio-Preparación, Caracterización y Estudios de biodegradación. <i>IFMBE Proceedings</i> , 2013 , 100-103	0.2	
35	Bioactive composite bone cement based on tricalcium phosphate/tricalcium silicate. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 94-102	3.5	28
34	Evaluation of n-butyl cyanoacrylate adhesive in rat subcutaneous tissue. <i>Dermatologic Surgery</i> , 2012 , 38, 767-71	1.7	9
33	Si-TCP synthesized from "Mg-free" reagents employed as calcium phosphate cement. <i>Materials Research</i> , 2012 , 15, 568-572	1.5	7
32	Feasibility of ceramic-polymer composite cryogels as scaffolds for bone tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2012 , 6, 421-33	4.4	15
31	Development and characterization of tricalcium phosphate/monocalcium aluminate composite bone cement. <i>Journal of Biomedical Science and Engineering</i> , 2012 , 05, 448-456	0.7	4
30	Si-tricalcium phosphate cement: preparation, characterization and bioactivity in SBF. <i>Materials Research</i> , 2011 , 14, 493-498	1.5	7
29	Effects of silica addition on the chemical, mechanical and biological properties of a new tricalcium phosphate/tricalcium silicate cement. <i>Materials Research</i> , 2011 , 14, 475-482	1.5	6
28	Tricalcium phosphate: synthesis, properties and biomedical applications. <i>Acta Biomaterialia</i> , 2011 , 7, 3536-46	10.8	337
27	Bone-like forming ability of apatite/wollastonite glass ceramic. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 1549-1561	6	46
26	Las principales contribuciones de Salvador de Aza a las Biocerámicas. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2011 , 50, 301-309	1.9	4
25	Revisiting the Phase-Equilibrium Diagram of the $Ca_3(PO_4)_2-CaMg(SiO_3)_2$ System. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 561-569	3.8	25
24	Chitosan/apatite composite beads prepared by in situ generation of apatite or Si-apatite nanocrystals. <i>Acta Biomaterialia</i> , 2010 , 6, 466-76	10.8	35
23	Synthesis, characterization, bioactivity and biocompatibility of nanostructured materials based on the wollastonite-poly(ethylmethacrylate-co-vinylpyrrolidone) system. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 88, 53-64	5.4	27
22	Devitrification studies of wollastonite-tricalcium phosphate eutectic glass. <i>Acta Biomaterialia</i> , 2009 , 5, 3057-66	10.8	28
21	Biological Response to Wollastonite Doped tricalcium phosphate implants in Hard and Soft Tissues in Rats. <i>Key Engineering Materials</i> , 2008 , 396-398, 7-10	0.4	17
20	A Comparative Study between TCP and Si-TCP Calcium Phosphate Cement. <i>Key Engineering Materials</i> , 2008 , 396-398, 201-204	0.4	2
19	Influence of Mixing Liquid on the Properties of Calcium Aluminate Cement. <i>Key Engineering Materials</i> , 2008 , 396-398, 241-244	0.4	2

18	Transformations in CDHA/OCP/beta-TCP scaffold during ageing in simulated body fluid at 36.5 degrees C. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008 , 84, 386-93	3.5	8
17	New Approach to the Polymorphic Transformation in Magnesium-Substituted Tricalcium Phosphate and its Practical Implications. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 1281-1286	3.8	79
16	Effect of sterilization on the properties of CDHA-OCP-beta-TCP biomaterial. <i>Materials Research</i> , 2007 , 10, 15-20	1.5	24
15	Development of wollastonite-poly(ethylmethacrylate co-vinylpyrrolidone) based materials for multifunctional devices. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 81, 603-10	5.4	6
14	Assessment of natural and synthetic wollastonite as source for bioceramics preparation. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 83, 484-95	5.4	30
13	Mg-Free Precursors for the Synthesis of Pure Phase Si-Doped $\text{Ca}_3(\text{PO}_4)_2$. <i>Key Engineering Materials</i> , 2007 , 361-363, 199-202	0.4	15
12	Preparation and In Vitro Characterization of Wollastonite Doped Tricalcium Phosphate Bioceramics. <i>Key Engineering Materials</i> , 2007 , 361-363, 237-240	0.4	17
11	Wollastonite-Poly(Ethylmethacrylate-Co-Vinylpyrrolidone) Nanostructured Materials: Mechanical Properties and Biocompatibility. <i>Key Engineering Materials</i> , 2006 , 309-311, 1149-1152	0.4	2
10	Hydroxyapatite suspensions as precursors of pieces obtained by gelcasting method. <i>Journal of the European Ceramic Society</i> , 2004 , 24, 2223-2232	6	39
9	Injectable acrylic bone cements for vertebroplasty with improved properties. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 68, 94-104		34
8	Hydrothermal method for preparing calcium phosphate monoliths. <i>Materials Research</i> , 2003 , 6, 395-401	1.5	14
7	Fiber-enriched double-setting calcium phosphate bone cement. <i>Journal of Biomedical Materials Research - Part A</i> , 2003 , 65, 244-50	5.4	24
6	Dual-setting calcium phosphate cement modified with ammonium polyacrylate. <i>Artificial Organs</i> , 2003 , 27, 412-8	2.6	37
5	Alpha-tricalcium phosphate cement: "in vitro" cytotoxicity. <i>Biomaterials</i> , 2002 , 23, 2035-42	15.6	50
4	Barium titanate-filled bone cements. I. Chemical, physical, and mechanical characterization. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2002 , 51, 591-605	3	6
3	Photopolymerization of "dual-setting" tricalcium phosphate cements. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2002 , 51, 577-589	3	2
2	Fiber reinforced calcium phosphate cement. <i>Artificial Organs</i> , 2000 , 24, 212-6	2.6	58
1	Influence of polymeric additives on the mechanical properties of alpha-tricalcium phosphate cement. <i>Bone</i> , 1999 , 25, 99S-102S	4.7	62

