

Iain R Gibson

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.

64
papers

3,298
citations

31
h-index

57
g-index

65
ext. papers

3,530
ext. citations

4.4
avg, IF

4.82
L-index

#	Paper	IF	Citations
64	Potassium-carbonate co-substituted hydroxyapatite compositions: maximising the level of carbonate uptake for potential CO ₂ utilisation options. <i>Materials Advances</i> , 2022 , 3, 1713-1728	3.3	1
63	Maximising carbonate content in sodium-carbonate Co-substituted hydroxyapatites prepared by aqueous precipitation reaction. <i>Journal of Solid State Chemistry</i> , 2021 , 297, 122042	3.3	2
62	The efficacy of a nanosynthetic bone graft substitute as a bone graft extender in rabbit posterolateral fusion. <i>Spine Journal</i> , 2021 , 21, 1925-1937	4	0
61	Faster synthesis of A-type carbonated hydroxyapatite powders prepared by high-temperature reaction. <i>Advanced Powder Technology</i> , 2020 , 31, 3318-3327	4.6	6
60	Natural and Synthetic Hydroxyapatites 2020 , 307-317		1
59	Nano-scale hydroxyapatite compositions for the utilization of CO ₂ recovered using post-combustion carbon capture. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5367-5377	13	18
58	The role of the chemical composition of monetite on the synthesis and properties of tricalcium phosphate. <i>Materials Science and Engineering C</i> , 2014 , 34, 123-9	8.3	25
57	Sr-containing hydroxyapatite: morphologies of HA crystals and bioactivity on osteoblast cells. <i>Materials Science and Engineering C</i> , 2013 , 33, 1132-42	8.3	81
56	Simplification of the Synthesis Method for Silicon-Substituted Hydroxyapatite: A Raman Spectroscopy Study. <i>Key Engineering Materials</i> , 2012 , 529-530, 94-99	0.4	1
55	Synthesis and Characterisation of Strontium and Magnesium Co-Substituted Biphasic Calcium Phosphates. <i>Key Engineering Materials</i> , 2012 , 529-530, 88-93	0.4	3
54	Computational Studies of Magnesium and Strontium Substitution in Hydroxyapatite. <i>Key Engineering Materials</i> , 2012 , 529-530, 123-128	0.4	2
53	Magnesium- and strontium-co-substituted hydroxyapatite: the effects of doped-ions on the structure and chemico-physical properties. <i>Journal of Materials Science: Materials in Medicine</i> , 2012 , 23, 2867-79	4.5	85
52	Preparation of osteocompatible Si(IV)-enriched chitosan-silicate hybrids. <i>Journal of the Ceramic Society of Japan</i> , 2010 , 118, 989-992	1	19
51	A comparison of cortical and trabecular bone from C57 Black 6 mice using Raman spectroscopy. <i>Bone</i> , 2009 , 44, 899-907	4.7	64
50	Physicochemical degradation studies of calcium phosphate glass ceramic in the CaO-P ₂ O ₅ -MgO-TiO ₂ system. <i>Acta Biomaterialia</i> , 2007 , 3, 263-9	10.8	10
49	Synthesis and Stability of Potassium/Carbonate Co-Substituted Hydroxyapatites. <i>Key Engineering Materials</i> , 2007 , 361-363, 207-210	0.4	2
48	Sol-Gel Synthesis and In Vitro Cell Compatibility Analysis of Silicate-Containing Biodegradable Hybrid Gels. <i>Key Engineering Materials</i> , 2007 , 361-363, 447-450	0.4	6

47	Synthesis of Novel High Silicate-Substituted Hydroxyapatite by Co-Substitution Mechanisms. <i>Key Engineering Materials</i> , 2007 , 330-332, 87-90	0.4	10
46	Optimisation of the Aqueous Precipitation Synthesis of Silicate-Substituted Hydroxyapatite. <i>Key Engineering Materials</i> , 2007 , 361-363, 55-58	0.4	2
45	Synthesis and Phase Stability of Silicate-Substituted Tricalcium Phosphate. <i>Key Engineering Materials</i> , 2007 , 361-363, 67-70	0.4	11
44	Comparison of Carbonate Hydroxyapatite with and without Sodium Co-Substitution. <i>Key Engineering Materials</i> , 2007 , 330-332, 19-22	0.4	6
43	The uptake of titanium ions by hydroxyapatite particles-structural changes and possible mechanisms. <i>Biomaterials</i> , 2006 , 27, 1749-61	15.6	112
42	In situ thermal and structural characterization of bioactive calcium phosphate glass ceramics containing TiO ₂ and MgO oxides: High temperature XRD studies. <i>Journal of Non-Crystalline Solids</i> , 2005 , 351, 810-817	3.9	47
41	In vivo assessment of hydroxyapatite and silicate-substituted hydroxyapatite granules using an ovine defect model. <i>Journal of Materials Science: Materials in Medicine</i> , 2005 , 16, 429-40	4.5	91
40	Competitive Guidance Cues Affect Fibroblast Cell Alignment: Electric Fields vs. Contact Guidance. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 845, 41		2
39	Effect of Silicon Substitution on the Sintering and Microstructure of Hydroxyapatite. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 2771-2777	3.8	113
38	Effect of the proportion of organic material in bone on thermal decomposition of bone mineral: an investigation of a variety of bones from different species using thermogravimetric analysis coupled to mass spectrometry, high-temperature X-ray diffraction, and Fourier transform infrared spectroscopy. <i>Journal of Thermal Analysis and Calorimetry</i> , 2004 , 75, 231-8	3.9	130
37	In vitro cellular response to titanium electrochemically coated with hydroxyapatite compared to titanium with three different levels of surface roughness. <i>Journal of Materials Science: Materials in Medicine</i> , 2003 , 14, 511-9	4.5	31
36	Calcium phosphate coatings obtained by Nd:YAG laser cladding: physicochemical and biologic properties. <i>Journal of Biomedical Materials Research - Part A</i> , 2003 , 64, 630-7	5.4	55
35	In vitro degradation studies of calcium phosphate glass ceramics prepared by controlled crystallization. <i>Journal of Non-Crystalline Solids</i> , 2003 , 330, 81-89	3.9	40
34	Comparison of Sintering and Mechanical Properties of Hydroxyapatite and Silicon-Substituted Hydroxyapatite. <i>Key Engineering Materials</i> , 2003 , 240-242, 919-922	0.4	13
33	Novel synthesis and characterization of an AB-type carbonate-substituted hydroxyapatite. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 59, 697-708		339
32	Preparation of macroporous calcium phosphate cement tissue engineering scaffold. <i>Biomaterials</i> , 2002 , 23, 3063-72	15.6	180
31	Ferroelasticity and hysteresis in LaCoO ₃ based perovskites. <i>Acta Materialia</i> , 2002 , 50, 715-723	8.4	48
30	Preparation and characterization of magnesium/carbonate co-substituted hydroxyapatites. <i>Journal of Materials Science: Materials in Medicine</i> , 2002 , 13, 685-93	4.5	116

29	A comparative study on the in vivo behavior of hydroxyapatite and silicon substituted hydroxyapatite granules. <i>Journal of Materials Science: Materials in Medicine</i> , 2002 , 13, 1199-206	4.5	393
28	Structural analysis of Si-substituted hydroxyapatite: zeta potential and X-ray photoelectron spectroscopy. <i>Journal of Materials Science: Materials in Medicine</i> , 2002 , 13, 1123-7	4.5	129
27	Porous glass reinforced hydroxyapatite materials produced with different organic additives. <i>Journal of Non-Crystalline Solids</i> , 2002 , 304, 286-292	3.9	45
26	Setting characteristics and mechanical behaviour of a calcium phosphate bone cement containing tetracycline. <i>Biomaterials</i> , 2001 , 22, 897-901	15.6	58
25	Adsorption and release studies of sodium ampicillin from hydroxyapatite and glass-reinforced hydroxyapatite composites. <i>Biomaterials</i> , 2001 , 22, 1393-400	15.6	89
24	Effect of chemical composition on hydrophobicity and zeta potential of plasma sprayed HA/CaO-P2O5 glass coatings. <i>Biomaterials</i> , 2001 , 22, 3105-12	15.6	33
23	The effect of low levels of zirconia addition on the mechanical properties of hydroxyapatite. <i>Journal of Materials Science Letters</i> , 2001 , 20, 1719-1722		20
22	Effect of powder characteristics on the sinterability of hydroxyapatite powders. <i>Journal of Materials Science: Materials in Medicine</i> , 2001 , 12, 163-71	4.5	50
21	Calcining influence on the powder properties of hydroxyapatite. <i>Journal of Materials Science: Materials in Medicine</i> , 2001 , 12, 181-8	4.5	45
20	Transformation of monetite to hydroxyapatite in bioactive coatings on titanium. <i>Surface and Coatings Technology</i> , 2001 , 137, 270-276	4.4	143
19	Qualitative X-ray Diffraction Analysis of Metastable Tetragonal (t?) Zirconia. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 615-618	3.8	46
18	The effects of oxalate-containing products on the exposed dentine surface: an SEM investigation. <i>Journal of Oral Rehabilitation</i> , 2001 , 28, 1037-44	3.4	56
17	Enhanced In Vivo Response to Silicate-Substituted Hydroxyapatite. <i>Key Engineering Materials</i> , 2001 , 218-220, 203-206	0.4	20
16	Production of calcium phosphate coatings on Ti6Al4V obtained by Nd:yttriumaluminumgarnet laser cladding. <i>Journal of Applied Physics</i> , 2001 , 90, 4231-4236	2.5	41
15	The In Vivo Response of Phase Pure Hydroxyapatite and Carbonate Substituted Hydroxyapaite Granules of Varying Size Ranges. <i>Key Engineering Materials</i> , 2001 , 218-220, 383-386	0.4	5
14	Comparison between Commercial Calcium Phosphate Bone Cements. <i>Key Engineering Materials</i> , 2001 , 218-220, 331-334	0.4	1
13	Characterisation of Mono- and Biphasic Calcium Phosphates Granules. <i>Key Engineering Materials</i> , 2001 , 218-220, 625-628	0.4	
12	Novel processing of hydroxyapatite-zirconia composites using nano-sized particles. <i>Journal of Materials Science Letters</i> , 2000 , 19, 2209-2211		10

11	Characterization of the transformation from calcium-deficient apatite to beta-tricalcium phosphate. <i>Journal of Materials Science: Materials in Medicine</i> , 2000 , 11, 799-804	4.5	106
10	Preparation and Characterisation of Hydroxyapatite and Carbonate Substituted Hydroxyapatite Granules. <i>Key Engineering Materials</i> , 2000 , 192-195, 7-10	0.4	7
9	Bioactivity Assessment of Hydroxyapatite Coatings Produced by Alkali Conversion of Monetite. <i>Key Engineering Materials</i> , 2000 , 192-195, 59-62	0.4	3
8	Influence of Phase Purity on the in Vivo Response to Hydroxyapatite. <i>Key Engineering Materials</i> , 2000 , 192-195, 373-376	0.4	11
7	Influence of aging heat treatment on mechanical properties of biomedical Ti-Zr based ternary alloys containing niobium. <i>Journal of Materials Science: Materials in Medicine</i> , 1998 , 9, 625-30	4.5	45
6	Synthesis and characterization of carbonate hydroxyapatite. <i>Journal of Materials Science: Materials in Medicine</i> , 1998 , 9, 779-83	4.5	127
5	Influence of yttria concentration upon electrical properties and susceptibility to ageing of yttria-stabilised zirconias. <i>Journal of the European Ceramic Society</i> , 1998 , 18, 661-667	6	55
4	Study of the order-disorder transition in yttria-stabilised zirconia by neutron diffraction. <i>Journal of Materials Chemistry</i> , 1996 , 6, 895-898		55
3	Oxide ion transport in highly defective cubic stabilized zirconias. <i>Ionics</i> , 1995 , 1, 279-285	2.7	13
2	Sintering of a plasma derived zirconia powder for solid oxide fuel cell electrolytes. <i>Solid State Ionics</i> , 1994 , 72, 265-270	3.3	5
1	The use of silver as a selective precipitant for ¹²⁹ I in radioactive waste management. <i>Waste Management</i> , 1990 , 10, 303-308	8.6	15