

jake e Barralet

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8877349/publications.pdf>

Version: 2024-02-01

179
papers

11,462
citations

23879

60
h-index

37326

100
g-index

181
all docs

181
docs citations

181
times ranked

12166
citing authors

#	ARTICLE	IF	CITATIONS
1	Aqueous decomposition behavior of solid peroxides: Effect of pH and buffer composition on oxygen and hydrogen peroxide formation. <i>Acta Biomaterialia</i> , 2022, 145, 390-402.	4.1	19
2	Skeletal regeneration for segmental bone loss: Vascularised grafts, analogues and surrogates. <i>Acta Biomaterialia</i> , 2021, 136, 37-55.	4.1	24
3	Biomaterial-Induced of a Transplantable Angiosome. <i>Advanced Functional Materials</i> , 2020, 30, 1905115.	7.8	6
4	Dispersion modeling in pore networks: A comparison of common pore-scale models and alternative approaches. <i>Journal of Contaminant Hydrology</i> , 2020, 228, 103578.	1.6	16
5	Effects of Oxygen and Glucose on Bone Marrow Mesenchymal Stem Cell Culture. <i>Advanced Biology</i> , 2020, 4, e2000094.	3.0	4
6	2D hematene, a bioresorbable electrocatalytic support for glucose oxidation. <i>2D Materials</i> , 2020, 7, 025044.	2.0	5
7	Tailoring Carbon Nanotube Microsphere Architectures with Controlled Porosity. <i>Advanced Functional Materials</i> , 2019, 29, 1903983.	7.8	15
8	Bioinorganics and Wound Healing. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900764.	3.9	80
9	Treatment of Critical-Sized Calvarial Defects in Rats with Preimplanted Transplants. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900722.	3.9	5
10	Selective exposure of platinum catalyst embedded in protective oxide layer on conductive titanium carbide support. <i>Materials Today Energy</i> , 2019, 13, 353-361.	2.5	1
11	Material-Induced Venosome-Supported Bone Tubes. <i>Advanced Science</i> , 2019, 6, 1900844.	5.6	16
12	Exploring the Impact of Electrode Microstructure on Redox Flow Battery Performance Using a Multiphysics Pore Network Model. <i>Journal of the Electrochemical Society</i> , 2019, 166, A2121-A2130.	1.3	44
13	Top-down bottom-up graphene synthesis. <i>Nano Futures</i> , 2019, 3, 042003.	1.0	39
14	Best practices for enhancing surgical research: a perspective from the Canadian Association of Chairs of Surgical Research. <i>Canadian Journal of Surgery</i> , 2019, 62, 488-498.	0.5	5
15	Cavitation Mediated 3D Microstructured Architectures from Nanocarbon. <i>Advanced Functional Materials</i> , 2018, 28, 1706832.	7.8	9
16	A pilot study: Alternative biomaterials in critical sized bone defect treatment. <i>Injury</i> , 2018, 49, 523-531.	0.7	25
17	Composite Carbon Nanotube Microsphere Coatings for Use as Electrode Supports. <i>Advanced Functional Materials</i> , 2018, 28, 1803713.	7.8	14
18	Preservation of Blood Vessels with an Oxygen Generating Composite. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701338.	3.9	8

#	ARTICLE	IF	CITATIONS
19	Powerful amorphous mixed metal catalyst for efficient water-oxidation. <i>Materials Today Energy</i> , 2018, 9, 247-253.	2.5	8
20	Powder Conductivity Assessment Using a Disposable 3D Printed Device. <i>Electroanalysis</i> , 2018, 30, 1897-1901.	1.5	2
21	Graphene modified nanosized Ag electrocomposites. <i>Materials Research Bulletin</i> , 2017, 89, 42-50.	2.7	10
22	Mimicking oxygen delivery and waste removal functions of blood. <i>Advanced Drug Delivery Reviews</i> , 2017, 122, 84-104.	6.6	37
23	Effect of processing conditions of dicalcium phosphate cements on graft resorption and bone formation. <i>Acta Biomaterialia</i> , 2017, 53, 526-535.	4.1	35
24	Hypoxia Biomimicry to Enhance Monelite Bone Defect Repair. <i>Tissue Engineering - Part A</i> , 2017, 23, 1372-1381.	1.6	26
25	Electrically wired enzyme/TiO ₂ composite for glucose detection. <i>Materials Science and Engineering C</i> , 2017, 76, 991-996.	3.8	11
26	Intra-tumor delivery of zoledronate mitigates metastasis-induced osteolysis superior to systemic administration. <i>Journal of Bone Oncology</i> , 2017, 6, 8-15.	1.0	9
27	Intrinsic 3D Prestressing: A New Route for Increasing Strength and Improving Toughness of Hybrid Inorganic Biocements. <i>Advanced Materials</i> , 2017, 29, 1701035.	11.1	12
28	Pore network modeling of reaction-diffusion in hierarchical porous particles: The effects of microstructure. <i>Chemical Engineering Journal</i> , 2017, 330, 1002-1011.	6.6	58
29	Phytic acid as alternative setting retarder enhanced biological performance of dicalcium phosphate cement in vitro. <i>Scientific Reports</i> , 2017, 7, 558.	1.6	22
30	In vitro ion adsorption and cytocompatibility of dicalcium phosphate ceramics. <i>Biomaterials Research</i> , 2017, 21, 10.	3.2	18
31	Mucoadhesive chitosan hydrogels as rectal drug delivery vessels to treat ulcerative colitis. <i>Acta Biomaterialia</i> , 2017, 48, 247-257.	4.1	129
32	Regulation of Osteoclast Growth and Fusion by mTOR/raptor and mTOR/ricor/Akt. <i>Frontiers in Cell and Developmental Biology</i> , 2017, 5, 54.	1.8	42
33	The Effects of Crystal Phase and Particle Morphology of Calcium Phosphates on Proliferation and Differentiation of Human Mesenchymal Stromal Cells. <i>Advanced Healthcare Materials</i> , 2016, 5, 1775-1785.	3.9	17
34	Biomaterial-stabilized Soft Tissue Healing for Healing of Critical-sized Bone Defects: the Masquelet Technique. <i>Advanced Healthcare Materials</i> , 2016, 5, 630-640.	3.9	31
35	Controlling Bone Graft Substitute Microstructure to Improve Bone Augmentation. <i>Advanced Healthcare Materials</i> , 2016, 5, 1646-1655.	3.9	27
36	Electrically Bloomed Platinum Nanoflowers on Exfoliated Graphene: An Efficient Alcohol Oxidation Catalyst. <i>Journal of the Electrochemical Society</i> , 2016, 163, D615-D621.	1.3	14

#	ARTICLE	IF	CITATIONS
37	Local delivery of iron chelators reduces in vivo remodeling of a calcium phosphate bone graft substitute. <i>Acta Biomaterialia</i> , 2016, 42, 411-419.	4.1	20
38	Two-Dimensional Magnesium Phosphate Nanosheets Form Highly Thixotropic Gels That Up-Regulate Bone Formation. <i>Nano Letters</i> , 2016, 16, 4779-4787.	4.5	60
39	Development of Highly Functional Biomaterials by Decoupling and Recombining Material Properties. <i>Advanced Materials</i> , 2016, 28, 1803-1808.	11.1	17
40	Electrocatalytic Oxygen Reduction Performance of Silver Nanoparticle Decorated Electrochemically Exfoliated Graphene. <i>Langmuir</i> , 2015, 31, 9718-9727.	1.6	27
41	Characterization of biomimetic calcium phosphate labeled with fluorescent dextran for quantification of osteoclastic activity. <i>Acta Biomaterialia</i> , 2015, 20, 140-146.	4.1	4
42	Elucidating the individual effects of calcium and phosphate ions on hMSCs by using composite materials. <i>Acta Biomaterialia</i> , 2015, 17, 1-15.	4.1	56
43	Chelate Bonding Mechanism in a Novel Magnesium Phosphate Bone Cement. <i>Journal of the American Ceramic Society</i> , 2015, 98, 694-697.	1.9	26
44	Hypoxia signalling manipulation for bone regeneration. <i>Expert Reviews in Molecular Medicine</i> , 2015, 17, e6.	1.6	59
45	Chelate setting of alkali ion substituted calcium phosphates. <i>Ceramics International</i> , 2015, 41, 10010-10017.	2.3	15
46	Newly identified interfibrillar collagen crosslinking suppresses cell proliferation and remodelling. <i>Biomaterials</i> , 2015, 54, 126-135.	5.7	41
47	Silk fibroin hydroxyapatite composite thermal stabilisation of carbonic anhydrase. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19282-19287.	5.2	16
48	In vitro degradation and in vivo resorption of dicalcium phosphate cement based grafts. <i>Acta Biomaterialia</i> , 2015, 26, 338-346.	4.1	72
49	Axial vascularization of engineered bone for maxillofacial defects. <i>International Journal of Oral and Maxillofacial Surgery</i> , 2015, 44, e108-e109.	0.7	0
50	Dual-setting brushite-silica gel cements. <i>Acta Biomaterialia</i> , 2015, 11, 467-476.	4.1	27
51	Fibril formation pH controls intrafibrillar collagen biomineralization in vitro and in vivo. <i>Biomaterials</i> , 2015, 37, 252-259.	5.7	40
52	Genipin-crosslinked catechol-chitosan mucoadhesive hydrogels for buccal drug delivery. <i>Biomaterials</i> , 2015, 37, 395-404.	5.7	334
53	A new class of bioactive glasses: Calcium-magnesium sulfophosphates. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 2842-2848.	2.1	9
54	Resveratrol As Anti-Aging Therapy for Age-Related Bone Loss. <i>Rejuvenation Research</i> , 2014, 17, 439-445.	0.9	41

#	ARTICLE	IF	CITATIONS
55	Hierarchical Stable Enzyme Microenvironments for High-Temperature Stability in Amine Solvents. Particle and Particle Systems Characterization, 2014, 31, 1091-1096.	1.2	7
56	Melatonin Dietary Supplement as an Anti-Aging Therapy for Age-Related Bone Loss. Rejuvenation Research, 2014, 17, 341-346.	0.9	47
57	Reproducible quantification of osteoclastic activity: Characterization of a biomimetic calcium phosphate assay. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2014, 102, 903-912.	1.6	18
58	Self-assembled photoactive heterojunction phase gradient. Journal of Materials Chemistry A, 2014, 2, 8868-8874.	5.2	2
59	Hydrocaffeic acid-chitosan nanoparticles with enhanced stability, mucoadhesion and permeation properties. European Journal of Pharmaceutics and Biopharmaceutics, 2014, 88, 1026-1037.	2.0	58
60	Electropolymerized Carbonic Anhydrase Immobilization for Carbon Dioxide Capture. Langmuir, 2014, 30, 6915-6919.	1.6	28
61	Osseointegration of dental implants in 3D-printed synthetic onlay grafts customized according to bone metabolic activity in recipient site. Biomaterials, 2014, 35, 5436-5445.	5.7	92
62	The effect of amorphous pyrophosphate on calcium phosphate cement resorption and bone generation. Biomaterials, 2013, 34, 6631-6637.	5.7	77
63	Amphiphilic peptide-loaded nanofibrous calcium phosphate microspheres promote hemostasis in vivo. Acta Biomaterialia, 2013, 9, 9194-9200.	4.1	31
64	An airway smooth muscle cell niche under physiological pulsatile flow culture using a tubular dense collagen construct. Biomaterials, 2013, 34, 1954-1966.	5.7	29
65	Moderate excess of pyruvate augments osteoclastogenesis. Biology Open, 2013, 2, 387-395.	0.6	16
66	Ultrasonic Phosphate Bonding of Nanoparticles. Advanced Materials, 2013, 25, 5953-5958.	11.1	11
67	Perfluorodecalin and bone regeneration. , 2013, 25, 22-36.		20
68	Mollusk Glue Inspired Mucoadhesives for Biomedical Applications. Langmuir, 2012, 28, 14010-14017.	1.6	84
69	The effect of autoclaving on the physical and biological properties of dicalcium phosphate dihydrate bioceramics: Brushite vs. monetite. Acta Biomaterialia, 2012, 8, 3161-3169.	4.1	109
70	Low temperature fabrication of spherical brushite granules by cement paste emulsion. Journal of Materials Science: Materials in Medicine, 2012, 23, 2631-2637.	1.7	9
71	Stabilization of Amorphous Calcium Carbonate with Nanofibrillar Biopolymers. Advanced Functional Materials, 2012, 22, 3460-3469.	7.8	25
72	Dicalcium phosphate cements: Brushite and monetite. Acta Biomaterialia, 2012, 8, 474-487.	4.1	352

#	ARTICLE	IF	CITATIONS
73	Silk fibroin derived polypeptide-induced biomineralization of collagen. <i>Biomaterials</i> , 2012, 33, 102-108.	5.7	118
74	Collagen gel fibrillar density dictates the extent of mineralization in vitro. <i>Soft Matter</i> , 2011, 7, 9898.	1.2	34
75	The Role of the Air-Liquid Interface in Protein-Mediated Biomineralization of Calcium Carbonate. <i>Crystal Growth and Design</i> , 2011, 11, 803-810.	1.4	9
76	Vertical bone augmentation with 3D-synthetic monetite blocks in the rabbit calvaria. <i>Journal of Clinical Periodontology</i> , 2011, 38, 1147-1153.	2.3	68
77	Accelerated mineralization of dense collagen-nano bioactive glass hybrid gels increases scaffold stiffness and regulates osteoblastic function. <i>Biomaterials</i> , 2011, 32, 8915-8926.	5.7	176
78	Mesenchymal stem cell-seeded multilayered dense collagen-silk fibroin hybrid for tissue engineering applications. <i>Biotechnology Journal</i> , 2011, 6, 1198-1207.	1.8	33
79	Silver-doped calcium phosphate cements with antimicrobial activity. <i>Acta Biomaterialia</i> , 2011, 7, 4064-4070.	4.1	162
80	Bioinorganics and biomaterials: Bone repair. <i>Acta Biomaterialia</i> , 2011, 7, 3013-3026.	4.1	364
81	Serum Protein Controlled Nanoparticle Synthesis. <i>Advanced Functional Materials</i> , 2011, 21, 2968-2977.	7.8	16
82	Interferon- β plays a role in bone formation in vivo and rescues osteoporosis in ovariectomized mice. <i>Journal of Bone and Mineral Research</i> , 2011, 26, 1472-1483.	3.1	133
83	Biocompatibility of magnesium phosphate minerals and their stability under physiological conditions. <i>Acta Biomaterialia</i> , 2011, 7, 2678-2685.	4.1	145
84	Sustained steroid release in pulmonary inflammation model. <i>Biomaterials</i> , 2010, 31, 6050-6059.	5.7	5
85	<i>In vitro</i> antibacterial efficacy of tetracycline hydrochloride adsorbed onto Bio-Oss® bone graft. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010, 93B, 394-400.	1.6	30
86	Simultaneous Immobilization of Bioactives During 3D Powder Printing of Bioceramic Drug-Release Matrices. <i>Advanced Functional Materials</i> , 2010, 20, 1585-1591.	7.8	89
87	Collagen Biomineralization In Vivo by Sustained Release of Inorganic Phosphate Ions. <i>Advanced Materials</i> , 2010, 22, 1858-1862.	11.1	70
88	Phase composition, mechanical performance and in vitro biocompatibility of hydraulic setting calcium magnesium phosphate cement. <i>Acta Biomaterialia</i> , 2010, 6, 1529-1535.	4.1	80
89	The stimulation of angiogenesis and collagen deposition by copper. <i>Biomaterials</i> , 2010, 31, 824-831.	5.7	304
90	Resorption of monetite granules in alveolar bone defects in human patients. <i>Biomaterials</i> , 2010, 31, 2762-2769.	5.7	111

#	ARTICLE	IF	CITATIONS
91	Passive and Active <i>In Vitro</i> Resorption of Calcium and Magnesium Phosphate Cements by Osteoclastic Cells. <i>Tissue Engineering - Part A</i> , 2010, 16, 3687-3695.	1.6	108
92	Three-Dimensional Mineralization of Dense Nanofibrillar Collagen [~] Bioglass Hybrid Scaffolds. <i>Biomacromolecules</i> , 2010, 11, 1470-1479.	2.6	142
93	Ascorbic acid accelerates osteoclast formation and death. <i>Bone</i> , 2010, 46, 1336-1343.	1.4	38
94	Ideal Amphipathic Peptides Coupled to Nanofibrous Microspheres Reduce Hemorrhage In Vivo. <i>Blood</i> , 2010, 116, 2204-2204.	0.6	0
95	Angiogenesis in Calcium Phosphate Scaffolds by Inorganic Copper Ion Release. <i>Tissue Engineering - Part A</i> , 2009, 15, 1601-1609.	1.6	204
96	Influence of calcium phosphate crystal morphology on the adhesion, spreading, and growth of bone derived cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 90A, 972-980.	2.1	14
97	Ion adsorption behaviour of hydroxyapatite with different crystallinities. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 74, 91-95.	2.5	128
98	Minimally invasive maxillofacial vertical bone augmentation using brushite based cements. <i>Biomaterials</i> , 2009, 30, 208-216.	5.7	61
99	Craniofacial vertical bone augmentation: A comparison between 3D printed monolithic monetite blocks and autologous onlay grafts in the rabbit. <i>Biomaterials</i> , 2009, 30, 6318-6326.	5.7	128
100	High-strength resorbable brushite bone cement with controlled drug-releasing capabilities. <i>Acta Biomaterialia</i> , 2009, 5, 43-49.	4.1	137
101	Chemical characterization of a degradable polymeric bone adhesive containing hydrolysable fillers and interpretation of anomalous mechanical properties. <i>Acta Biomaterialia</i> , 2009, 5, 2072-2083.	4.1	24
102	Magnesium-sputtered titanium for the formation of bioactive coatings. <i>Acta Biomaterialia</i> , 2009, 5, 2338-2347.	4.1	30
103	Characterization of chlorhexidine-releasing, fast-setting, brushite bone cements. <i>Acta Biomaterialia</i> , 2008, 4, 1081-1088.	4.1	51
104	Modeling vancomycin release kinetics from microporous calcium phosphate ceramics comparing static and dynamic immersion conditions. <i>Acta Biomaterialia</i> , 2008, 4, 1480-1486.	4.1	71
105	The use of RANKL-coated brushite cement to stimulate bone remodelling. <i>Biomaterials</i> , 2008, 29, 3253-3259.	5.7	48
106	The importance of particle size and DNA condensation salt for calcium phosphate nanoparticle transfection. <i>Biomaterials</i> , 2008, 29, 3384-3392.	5.7	82
107	Preparation of tricalcium phosphate/calcium pyrophosphate structures via rapid prototyping. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 1559-1563.	1.7	79
108	3D Powder Printing of β -Tricalcium Phosphate Ceramics Using Different Strategies. <i>Advanced Engineering Materials</i> , 2008, 10, B67.	1.6	152

#	ARTICLE	IF	CITATIONS
109	Strontium modified bioceramics with zero order release kinetics. <i>Biomaterials</i> , 2008, 29, 4691-4697.	5.7	76
110	Brushite-collagen composites for bone regeneration. <i>Acta Biomaterialia</i> , 2008, 4, 1315-1321.	4.1	94
111	Frozen delivery of brushite calcium phosphate cements. <i>Acta Biomaterialia</i> , 2008, 4, 1916-1923.	4.1	22
112	Osteoconduction and osteoinduction of low-temperature 3D printed bioceramic implants. <i>Biomaterials</i> , 2008, 29, 944-953.	5.7	311
113	Osteopontin functions as an opsonin and facilitates phagocytosis by macrophages of hydroxyapatite-coated microspheres: Implications for bone wound healing. <i>Bone</i> , 2008, 43, 708-716.	1.4	42
114	Bioactivity of bone resorptive factor loaded on osteoconductive matrices: Stability post-dehydration. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008, 70, 813-818.	2.0	15
115	Synthesis, characterization and properties of erbium-based nanofibres and nanorods. <i>Nanotechnology</i> , 2007, 18, 445606.	1.3	13
116	Resorbable Dicalcium Phosphate Bone Substitutes Prepared by 3D Powder Printing. <i>Advanced Functional Materials</i> , 2007, 17, 3940-3945.	7.8	218
117	Direct Printing of Bioceramic Implants with Spatially Localized Angiogenic Factors. <i>Advanced Materials</i> , 2007, 19, 795-800.	11.1	132
118	Carvable calcium phosphate bone substitute material. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007, 83B, 1-8.	1.6	3
119	Antimicrobial properties of nanocrystalline tetracalcium phosphate cements. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007, 83B, 132-137.	1.6	18
120	Influence of calcium phosphate crystal assemblies on the proliferation and osteogenic gene expression of rat bone marrow stromal cells. <i>Biomaterials</i> , 2007, 28, 1393-1403.	5.7	119
121	Brushite Cements from Polyphosphoric Acid, Calcium Phosphate Systems. <i>Journal of the American Ceramic Society</i> , 2007, 90, 1892-1898.	1.9	13
122	Whisker-Reinforced Calcium Phosphate Cements. <i>Journal of the American Ceramic Society</i> , 2007, 90, 3694-3697.	1.9	64
123	Low temperature direct 3D printed bioceramics and biocomposites as drug release matrices. <i>Journal of Controlled Release</i> , 2007, 122, 173-180.	4.8	185
124	The optimisation of the initial viscosity of an encapsulated glass-ionomer restorative following different mechanical mixing regimes. <i>Journal of Dentistry</i> , 2006, 34, 155-163.	1.7	26
125	Effects of fibre reinforcement on the mechanical properties of brushite cement. <i>Acta Biomaterialia</i> , 2006, 2, 95-102.	4.1	55
126	FTIR-monitoring of a fast setting brushite bone cement: effect of intermediate phases. <i>Journal of Materials Chemistry</i> , 2006, 16, 3199.	6.7	70

#	ARTICLE	IF	CITATIONS
127	Biologically mediated resorption of brushite cement in vitro. <i>Biomaterials</i> , 2006, 27, 2178-2185.	5.7	81
128	Bone marrow cell gene expression and tissue construct assembly using octacalcium phosphate microscaffolds. <i>Biomaterials</i> , 2006, 27, 2874-2881.	5.7	93
129	In vitro biodegradation of three brushite calcium phosphate cements by a macrophage cell-line. <i>Biomaterials</i> , 2006, 27, 4557-4565.	5.7	94
130	Real-time monitoring of the setting reaction of brushite-forming cement using isothermal differential scanning calorimetry. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006, 79B, 360-364.	1.6	34
131	An approach to compare the quality of cancellous bone from the femoral necks of healthy and osteoporotic patients through compression testing and microcomputed tomography imaging. <i>McGill Journal of Medicine</i> , 2006, 9, 102-7.	0.1	4
132	Antimicrobial potency of alkali ion substituted calcium phosphate cements. <i>Biomaterials</i> , 2005, 26, 6880-6886.	5.7	49
133	Thermal Performance of Mechanically Activated Tetracalcium Phosphate. <i>Journal of the American Ceramic Society</i> , 2005, 88, 1327-1330.	1.9	10
134	Cement Formulations in the Calcium Phosphate H ₂ O-H ₃ PO ₄ -H ₄ P ₂ O ₇ System. <i>Journal of the American Ceramic Society</i> , 2005, 88, 3096-3103.	1.9	35
135	Improving peptide-based assays to differentiate between vaccination and Mycobacterium bovis infection in cattle using nanoparticle carriers for adsorbed antigens. <i>Journal of Controlled Release</i> , 2005, 102, 551-561.	4.8	30
136	Rheological enhancement of mechanically activated β -tricalcium phosphate cements. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2005, 73B, 1-6.	1.6	56
137	Cortical bone screw fixation in ionically modified apatite cements. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2005, 73B, 238-243.	1.6	10
138	In vitro transfer of keratinocytes: Comparison of transfer from fibrin membrane and delivery by aerosol spray. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2005, 73B, 221-228.	1.6	33
139	Modified PMMA cements for a hydrolysis resistant metal-polymer interface in orthopaedic applications. <i>Acta Biomaterialia</i> , 2005, 1, 671-676.	4.1	19
140	Factors influencing calcium phosphate cement shelf-life. <i>Biomaterials</i> , 2005, 26, 3691-3697.	5.7	71
141	Technological issues for the development of more efficient calcium phosphate bone cements: A critical assessment. <i>Biomaterials</i> , 2005, 26, 6423-6429.	5.7	376
142	Comparison of bone marrow cell growth on 2D and 3D alginate hydrogels. <i>Journal of Materials Science: Materials in Medicine</i> , 2005, 16, 515-519.	1.7	104
143	Cement from nanocrystalline hydroxyapatite: Effect of calcium phosphate ratio. <i>Journal of Materials Science: Materials in Medicine</i> , 2005, 16, 1185-1190.	1.7	37
144	Alkali ion substituted calcium phosphate cement formation from mechanically activated reactants. <i>Journal of Materials Science: Materials in Medicine</i> , 2005, 16, 423-427.	1.7	34

#	ARTICLE	IF	CITATIONS
145	Cement from magnesium substituted hydroxyapatite. <i>Journal of Materials Science: Materials in Medicine</i> , 2005, 16, 455-460.	1.7	66
146	Modification of Calcium Phosphate Cement with H^+ -Hydroxy Acids and Their Salts. <i>Chemistry of Materials</i> , 2005, 17, 1313-1319.	3.2	77
147	Temperature dependent setting kinetics and mechanical properties of H^+ -TCP-pyrophosphoric acid bone cement. <i>Journal of Materials Chemistry</i> , 2005, 15, 4955.	6.7	56
148	Synthesis and Structure of a Calcium Polyphosphate with a Unique Criss-Cross Arrangement of Helical Phosphate Chains. <i>Chemistry of Materials</i> , 2005, 17, 4642-4646.	3.2	36
149	Bruschit-Knochenzemente aus biphasigen β -Tricalciumphosphat/ Calciumpyrophosphat Keramiken. <i>BIOmaterialien: Offizielles Organ Der Deutschen Gesellschaft Fuer Biomaterialien</i> , 2004, 5, .	0.1	0
150	Mechanical Activation of Tetracalcium Phosphate. <i>Journal of the American Ceramic Society</i> , 2004, 87, 311-313.	1.9	43
151	Amorphous β -Tricalcium Phosphate: Preparation and Aqueous Setting Reaction. <i>Journal of the American Ceramic Society</i> , 2004, 87, 1126-1132.	1.9	64
152	Dynamic shrinkage behavior of hydroxyapatite and glass-reinforced hydroxyapatites. <i>Journal of Materials Science</i> , 2004, 39, 2205-2208.	1.7	19
153	Cements from nanocrystalline hydroxyapatite. <i>Journal of Materials Science: Materials in Medicine</i> , 2004, 15, 407-411.	1.7	57
154	The effect of hot pressing on the physical properties of glass reinforced hydroxyapatite. <i>Journal of Materials Science: Materials in Medicine</i> , 2004, 15, 705-710.	1.7	7
155	Precipitation casting of polycaprolactone for applications in tissue engineering and drug delivery. <i>Biomaterials</i> , 2004, 25, 315-325.	5.7	303
156	Surfactant vesicle-mediated delivery of DNA vaccines via the subcutaneous route. <i>International Journal of Pharmaceutics</i> , 2004, 284, 31-41.	2.6	42
157	Ionic modification of calcium phosphate cement viscosity. Part I: hypodermic injection and strength improvement of apatite cement. <i>Biomaterials</i> , 2004, 25, 2187-2195.	5.7	195
158	Ionic modification of calcium phosphate cement viscosity. Part II: hypodermic injection and strength improvement of brushite cement. <i>Biomaterials</i> , 2004, 25, 2197-2203.	5.7	155
159	Nanocrystalline Tetracalcium Phosphate Cement. <i>Journal of Dental Research</i> , 2004, 83, 425-428.	2.5	31
160	Adhesion and Growth of Bone Marrow Stromal Cells on Modified Alginate Hydrogels. <i>Tissue Engineering</i> , 2004, 10, 1480-1491.	4.9	3
161	Formation of translucent hydroxyapatite ceramics by sintering in carbon dioxide atmospheres. <i>Journal of Materials Science</i> , 2003, 38, 3979-3993.	1.7	36
162	High-Strength Apatitic Cement by Modification with H^+ -Hydroxy Acid Salts. <i>Advanced Materials</i> , 2003, 15, 2091-2094.	11.1	93

#	ARTICLE	IF	CITATIONS
163	Evaluation of sodium alginate for bone marrow cell tissue engineering. <i>Biomaterials</i> , 2003, 24, 3475-3481.	5.7	315
164	Mechanical activation and cement formation of β -tricalcium phosphate. <i>Biomaterials</i> , 2003, 24, 4123-4131.	5.7	165
165	In vitro ageing of brushite calcium phosphate cement. <i>Biomaterials</i> , 2003, 24, 4133-4141.	5.7	139
166	Influence of powder/liquid mixing ratio on the performance of a restorative glass-ionomer dental cement. <i>Biomaterials</i> , 2003, 24, 4173-4179.	5.7	78
167	Tissue Engineering of Human Biliary Epithelial Cells on Polyglycolic Acid/Polycaprolactone Scaffolds Maintains Long-Term Phenotypic Stability. <i>Tissue Engineering</i> , 2003, 9, 1037-1045.	4.9	40
168	In vitro behavior of albumin-loaded carbonate hydroxyapatite gel. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 60, 360-367.	3.0	31
169	Preparation of macroporous calcium phosphate cement tissue engineering scaffold. <i>Biomaterials</i> , 2002, 23, 3063-3072.	5.7	195
170	Thermal decomposition of synthesised carbonate hydroxyapatite. <i>Journal of Materials Science: Materials in Medicine</i> , 2002, 13, 529-533.	1.7	98
171	Effect of sintering parameters on the density and microstructure of carbonate hydroxyapatite. <i>Journal of Materials Science: Materials in Medicine</i> , 2000, 11, 719-724.	1.7	73
172	Carbonate substitution in precipitated hydroxyapatite: An investigation into the effects of reaction temperature and bicarbonate ion concentration. , 1998, 41, 79-86.		229
173	The effect of Iron chelators on bioceramic bone graft remodelling.. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 4, .	2.0	0
174	Engineering mediatorless glucose oxidase microbioreactor. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 4, .	2.0	0
175	Injectable bone regeneration biomaterial with analgesic properties. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 4, .	2.0	0
176	Self-oxygenating scaffolds for anoxic culture of adipose tissue. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 4, .	2.0	1
177	Biodegradable spherical granules for bone healing of critical-size cranial defects in growing rabbits. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 4, .	2.0	0
178	Oxygen delivery augmented bone formation from transplanted bone marrow. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 4, .	2.0	0
179	Engineering the Masquelet technique. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 4, .	2.0	0