Jean-Michel Bouler

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Combination of biocompatible hydrogel precursors to apatitic calcium phosphate cements (<scp>CPCs</scp>): Influence of the in situ hydrogel reticulation on the <scp>CPC</scp> properties. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 102-116.	1.6	6
2	Proteomic analysis identified LBP and CD14 as key proteins in blood/biphasic calcium phosphate microparticle interactions. Acta Biomaterialia, 2021, 127, 298-312.	4.1	3
3	In vivo resorption of injectable apatitic calcium phosphate cements: Critical role of the intergranular microstructure. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 367-376.	1.6	10
4	Combination of blood and biphasic calcium phosphate microparticles for the reconstruction of large bone defects in dog: A pilot study. Journal of Biomedical Materials Research - Part A, 2018, 106, 1842-1850.	2.1	11
5	Gallium enhances reconstructive properties of a calcium phosphate bone biomaterial. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e854-e866.	1.3	20
6	Design and properties of a novel radiopaque injectable apatitic calcium phosphate cement, suitable for imageâ€guided implantation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 2786-2795.	1.6	11
7	Pain Management After Bone Reconstruction Surgery Using an Analgesic Bone Cement: A Functional Noninvasive In Vivo Study Using Gait Analysis. Journal of Pain, 2018, 19, 1169-1180.	0.7	8
8	Delivery systems of local anesthetics in bone surgery: are they efficient and safe?. Drug Discovery Today, 2018, 23, 1897-1903.	3.2	1
9	Calcium supplementation decreases BCP-induced inflammatory processes in blood cells through the NLRP3 inflammasome down-regulation. Acta Biomaterialia, 2017, 57, 462-471.	4.1	5
10	A straightforward approach to enhance the textural, mechanical and biological properties of injectable calcium phosphate apatitic cements (CPCs): CPC/blood composites, a comprehensive study. Acta Biomaterialia, 2017, 62, 328-339.	4.1	15
11	Solid-state 31P and 1H chemical MR micro-imaging of hard tissues and biomaterials with magic angle spinning at very high magnetic field. Scientific Reports, 2017, 7, 8224.	1.6	10
12	An in vitro analysis model for investigating the staining effect of various chlorhexidine-based mouthwashes. Journal of Clinical and Experimental Dentistry, 2017, 9, 0-0.	0.5	3
13	Polarized Raman spectra of brushite (CaHPO ₄ .2H ₂ O) crystal. Investigation of the phosphate stretching modes, study of the LOTO splitting. Journal of Raman Spectroscopy, 2016, 47, 971-977.	1.2	4
14	Gallium, a promising candidate to disrupt the vicious cycle driving osteolytic metastases. Biochemical Pharmacology, 2016, 116, 11-21.	2.0	14
15	A simple and effective approach to prepare injectable macroporous calcium phosphate cement for bone repair: Syringe-foaming using a viscous hydrophilic polymeric solution. Acta Biomaterialia, 2016, 31, 326-338.	4.1	76
16	Design and properties of novel gallium-doped injectable apatitic cements. Acta Biomaterialia, 2015, 24, 322-332.	4.1	44
17	Therapeutic strategies for treating osteolytic bone metastases. Drug Discovery Today, 2014, 19, 1419-1426.	3.2	43
18	Calcium phosphate cements for bone substitution: Chemistry, handling and mechanical properties. Acta Biomaterialia, 2014, 10, 1035-1049.	4.1	535

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19	High-frequency impedance measurement as a relevant tool for monitoring the apatitic cement setting reaction. Acta Biomaterialia, 2014, 10, 940-950.	4.1	15
20	Vertebroplasty using bisphosphonate-loaded calcium phosphate cement in a standardized vertebral body bone defect in an osteoporotic sheep model. Acta Biomaterialia, 2014, 10, 4887-4895.	4.1	43
21	A novel injectable, cohesive and toughened Si-HPMC (silanized-hydroxypropyl methylcellulose) composite calcium phosphate cement for bone substitution. Acta Biomaterialia, 2014, 10, 3335-3345.	4.1	71
22	The influence of different cellulose ethers on both the handling and mechanical properties of calcium phosphate cements for bone substitution. Acta Biomaterialia, 2013, 9, 5740-5750.	4.1	63
23	Polarized infrared reflectance spectra of brushite (CaHPO4â<2H2O) crystal investigation of the phosphate stretching modes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 111, 7-13.	2.0	6
24	A delivery system of linezolid to enhance the MRSA osteomyelitis prognosis: in vivo experimental assessment. European Journal of Clinical Microbiology and Infectious Diseases, 2013, 32, 195-198.	1.3	5
25	Biomaterial porosity determined by fractal dimensions, succolarity and lacunarity on microcomputed tomographic images. Materials Science and Engineering C, 2013, 33, 2025-2030.	3.8	42
26	New approaches for the local prevention of osteoporotic fractures. Materials Research Society Symposia Proceedings, 2012, 1376, 26.	0.1	1
27	<i>In Vitro</i> Characterization of Calcium Phosphate Biomaterial Loaded with Linezolid for Osseous Bone Defect Implantation. Journal of Biomaterials Applications, 2012, 26, 811-828.	1.2	7
28	Effects of citrate and NaCl on size, morphology, crystallinity and microstructure of calcium phosphates obtained from aqueous solutions at acidic or near-neutral pH. Journal of Dairy Research, 2012, 79, 238-248.	0.7	8
29	Exploring relationships between fractal dimension and trabecular bone characteristics. Proceedings of SPIE, 2012, , .	0.8	2
30	Gallium as a potential candidate for treatment of osteoporosis. Drug Discovery Today, 2012, 17, 1127-1132.	3.2	43
31	Bone texture analysis of human femurs using a new device (BMAâ"¢) improves failure load prediction. Osteoporosis International, 2012, 23, 1311-1316.	1.3	18
32	Assay of in vitro osteoclast activity on dentine, and synthetic calcium phosphate bone substitutes. Journal of Materials Science: Materials in Medicine, 2012, 23, 797-803.	1.7	9
33	Characterization and Properties of Novel Gallium-Doped Calcium Phosphate Ceramics. Inorganic Chemistry, 2011, 50, 8252-8260.	1.9	60
34	Na-doped β-tricalcium phosphate: physico-chemical and in vitro biological properties. Journal of Materials Science: Materials in Medicine, 2011, 22, 593-600.	1.7	14
35	Investigation of alendronate-doped apatitic cements as a potential technology for the prevention of osteoporotic hip fractures: Critical influence of the drug introduction mode on the in vitro cement properties. Acta Biomaterialia, 2011, 7, 759-770.	4.1	46
36	Structural and spectroscopic characterization of a series of potassium- and/or sodium-substituted β-tricalcium phosphate. Acta Biomaterialia, 2011, 7, 1844-1852.	4.1	63

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37	Impact of Dynamic Culture in the RCCS! Bioreactor on a Three-Dimensional Model of Bone Matrix Formation. Procedia Engineering, 2011, 10, 3662-3667.	1.2	9
38	Gallium-Doped Î ² -Tricalcium Phosphate Ceramics: Characterization and Properties. Key Engineering Materials, 2011, 493-494, 195-198.	0.4	1
39	Fate of Bone Marrow Stromal Cells in a Syngenic Model of Bone Formation. Tissue Engineering - Part A, 2011, 17, 2267-2278.	1.6	29
40	In vivo bone augmentation in an osteoporotic environment using bisphosphonate-loaded calcium deficient apatite. Biomaterials, 2010, 31, 7776-7784.	5.7	80
41	Calcium phosphate biomaterials as bone drug delivery systems: a review. Drug Discovery Today, 2010, 15, 547-552.	3.2	184
42	Analgesic properties of calcium phosphate apatite loaded with bupivacaine on postoperative pain. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 94B, 89-96.	1.6	11
43	A new technological procedure using sucrose as porogen compound to manufacture porous biphasic calcium phosphate ceramics of appropriate micro- and macrostructure. Ceramics International, 2010, 36, 93-101.	2.3	44
44	Gallium modulates osteoclastic bone resorption <i>in vitro</i> without affecting osteoblasts. British Journal of Pharmacology, 2010, 159, 1681-1692.	2.7	69
45	<i>In Vivo</i> Assessment of the Antimicrobial Activity of a Calcium-Deficient Apatite Vancomycin Drug Delivery System in a Methicillin-Resistant <i>Staphylococcus aureus</i> Rabbit Osteomyelitis Experimental Model. Antimicrobial Agents and Chemotherapy, 2010, 54, 950-952.	1.4	10
46	Biphasic Calcium Phosphate Microparticles for Bone Formation: Benefits of Combination with Blood Clot. Tissue Engineering - Part A, 2010, 16, 3495-3505.	1.6	39
47	Osteoclastic differentiation of mouse and human monocytes in a plasma clot/biphasic calcium phosphate microparticles composite. , 2010, 20, 379-392.		24
48	Young's Modulus of Macroporous Bioceramics: Measurement and Numerical Simulation. Bioceramics Development and Applications, 2010, 1, 1-3.	0.3	1
49	Inactivation of <i>Staphylococcus aureus</i> in calcium phosphate biomaterials via isostatic compression. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 91B, 348-353.	1.6	10
50	Prediction of bone density around orthopedic implants delivering bisphosphonate. Journal of Biomechanics, 2009, 42, 1206-1211.	0.9	24
51	Effects of pH and Ca/P molar ratio on the quantity and crystalline structure of calcium phosphates obtained from aqueous solutions. Dairy Science and Technology, 2009, 89, 301-316.	2.2	111
52	Human Primary Osteocyte Differentiation in a 3D Culture System. Journal of Bone and Mineral Research, 2009, 24, 1927-1935.	3.1	103
53	Reaction of Zoledronate with β-Tricalcium Phosphate for the Design of Potential Drug Device Combined Systems. Chemistry of Materials, 2008, 20, 182-191.	3.2	48
54	Orthopedic Implant Used as Drug Delivery System: Clinical Situation and State of the Research. Current Drug Delivery, 2008, 5, 59-63.	0.8	24

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55	Implants delivering bisphosphonate locally increase periprosthetic bone density in an osteoporotic sheep model. A pilot study. , 2008, 16, 10-16.		88
56	Validation of an Analytical Model Describing Mechanical Properties of Porous BCP Ceramics. Key Engineering Materials, 2007, 361-363, 15-18.	0.4	0
57	Influence of Association Type of Bisphosphonates with Calcium-Deficient Apatite on Drug Release. Key Engineering Materials, 2007, 361-363, 51-54.	0.4	0
58	Vibrational Properties of Sodium Substituted β-Tricalcium Phosphate. Key Engineering Materials, 2007, 361-363, 75-78.	0.4	2
59	Rheological Properties of an Injectable Bioactive Calcium Phosphate Material. Key Engineering Materials, 2007, 330-332, 847-850.	0.4	2
60	Calcium-deficient apatite synthesized by ammonia hydrolysis of dicalcium phosphate dihydrate: Influence of temperature, time, and pressure. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 80B, 32-42.	1.6	26
61	Effect of Sodium Doping in β-Tricalcium Phosphate on Its Structure and Properties. Chemistry of Materials, 2006, 18, 1425-1433.	3.2	60
62	Novel phosphate–phosphonate hybrid nanomaterials applied to biology. Progress in Solid State Chemistry, 2006, 34, 257-266.	3.9	25
63	Modelling the mechanical properties of microporous and macroporous biphasic calcium phosphate bioceramics. Journal of the European Ceramic Society, 2006, 26, 3647-3656.	2.8	83
64	Injectable bone substitute to preserve alveolar ridge resorption after tooth extraction: A study in dog. Journal of Materials Science: Materials in Medicine, 2006, 17, 1145-1152.	1.7	32
65	Injectable calcium phosphate scaffold and bone marrow graft for bone reconstruction in irradiated areas: An experimental study in rats. Biomaterials, 2006, 27, 4566-4572.	5.7	35
66	Local delivery of bisphosphonate from coated orthopedic implants increases implants mechanical stability in osteoporotic rats. Journal of Biomedical Materials Research - Part A, 2006, 76A, 133-143.	2.1	153
67	Modeling Relations between Processing, Microstructure and Mechanical Properties of Porous Bioceramics. Advanced Materials Research, 2006, 15-17, 519-524.	0.3	0
68	Improvement of macroporous biphasic phosphocalcic ceramics for the filling of bone defects. IRBM News, 2005, 26, 247-248.	0.1	5
69	Novel biomaterials for bisphosphonate delivery. Biomaterials, 2005, 26, 2073-2080.	5.7	143
70	In vivo bone regeneration with injectable calcium phosphate biomaterial: A three-dimensional micro-computed tomographic, biomechanical and SEM study. Biomaterials, 2005, 26, 5444-5453.	5.7	175
71	Hybrid materials applied to biotechnologies: coating of calcium phosphates for the design of implants active against bone resorption disorders. Journal of Materials Chemistry, 2005, 15, 3869.	6.7	41
72	Improvement of Porosity of a Calcium Phosphate Cement by Incorporation of Biodegradable Polymer Microspheres. Key Engineering Materials, 2005, 284-286, 129-132.	0.4	3

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73	Bone Marrow Autograft Associated to Macroporous Biphasic Calcium Phosphate for Bone Substitution in an Animal Model of Sequels of Radiotherapy. Key Engineering Materials, 2005, 284-286, 285-288.	0.4	0
74	Calcium phosphate scaffold and bone marrow for bone reconstruction in irradiated area: a dog study. Bone, 2005, 36, 323-330.	1.4	60
75	Calcium phosphate drug delivery system: influence of local zoledronate release on bone implant osteointegration. Bone, 2005, 36, 52-60.	1.4	250
76	Vancomycin biodegradable poly(lactide-co-glycolide) microparticles for bone implantation. Influence of the formulation parameters on the size, morphology, drug loading andin vitrorelease. Journal of Microencapsulation, 2005, 22, 841-852.	1.2	27
77	Mechanical Properties of Macroporous Biphasic Calcium Phosphate Bioceramics Fabricated Using a Porogen. Key Engineering Materials, 2005, 280-283, 1549-1554.	0.4	1
78	Maxillary Sinus Bone Grafting with an Injectable Bone Substitute: a Sheep Study. Key Engineering Materials, 2004, 254-256, 193-196.	0.4	1
79	Assessment of Cancellous Bone Architecture after Implantation of an Injectable Bone Substitute. Key Engineering Materials, 2004, 254-256, 55-58.	0.4	0
80	Surface potential and osteoblast attraction to calcium phosphate compounds is affected by selected alkaline hydrolysis processing. Journal of Materials Science: Materials in Medicine, 2004, 15, 841-846.	1.7	14
81	Chemically Modified Calcium Phosphates as Novel Materials for Bisphosphonate Delivery. Advanced Materials, 2004, 16, 1423-1427.	11.1	63
82	Calcium-deficient apatite: A firstin vivo study concerning bone ingrowth. Journal of Biomedical Materials Research Part B, 2003, 65A, 402-408.	3.0	70
83	Calcium-deficient apatite: influence of granule size and consolidation mode on release and in vitro activity of vancomycin. Biomaterials, 2003, 24, 1265-1270.	5.7	31
84	Calcium Deficient Apatite: An In-Vitro Model for Vancomycin Controlled Release. Key Engineering Materials, 2002, 218-220, 179-182.	0.4	0
85	Skin sensitization study of two hydroxypropyl methylcellulose components (Benecel and E4M) of an injectable bone substitute in guinea pigs. Journal of Materials Science: Materials in Medicine, 2002, 13, 149-154.	1.7	7
86	NMR Spectroscopy Contribution to the Study of Biomaterial Mineralisation. , 2002, , 209-218.		0
87	Macroporous biphasic calcium phosphate ceramics versus injectable bone substitute: a comparative study 3 and 8 weeks after implantation in rabbit bone. Journal of Materials Science: Materials in Medicine, 2001, 12, 385-390.	1.7	82
88	Biphasic calcium phosphates: Influence of three synthesis parameters on the HA/?-TCP ratio. Journal of Biomedical Materials Research Part B, 2000, 51, 680-684.	3.0	133
89	In Vivo Comparison of Two Injectable Calcium Phosphate Biomaterials: Ionic Cement and Polymer-Associated Particulate Ceramic. Key Engineering Materials, 2000, 192-195, 801-804.	0.4	2
90	In Vitro Carbonated Apatite Precipitation on Biphasic Calcium Phosphate Pellets Presenting Various HA/β-TCP Ratios. Key Engineering Materials, 2000, 192-195, 119-122.	0.4	12

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91	NMR Spectroscopy of Bone and Bone Substitutes. Key Engineering Materials, 2000, 192-195, 759-764.	0.4	2
92	Elaboration conditions influence physicochemical properties and in vivo bioactivity of macroporous biphasic calcium phosphate ceramics. Journal of Materials Science: Materials in Medicine, 1999, 10, 199-204.	1.7	86
93	Kinetic study of bone ingrowth and ceramic resorption associated with the implantation of different injectable calcium-phosphate bone substitutes. , 1999, 47, 28-35.		138
94	Biphasic calcium phosphate/hydrosoluble polymer composites: a new concept for bone and dental substitution biomaterials. Bone, 1999, 25, 59S-61S.	1.4	120
95	Short-term effects of mineral particle sizes on cellular degradation activity after implantation of injectable calcium phosphate biomaterials and the consequences for bone substitution. Bone, 1999, 25, 71S-74S.	1.4	72
96	Nuclear magnetic resonance spectroscopy of bone substitutes. Bone, 1999, 25, 103S-105S.	1.4	16
97	Injectable bone substitute using a hydrophilic polymer. Bone, 1999, 25, 67S-70S.	1.4	74
98	A New Injectable Calcium Phosphate Biomaterial for Immediate Bone Filling of Extraction Sockets: A Preliminary Study in Dogs. Journal of Periodontology, 1999, 70, 375-383.	1.7	85
99	Macroporous biphasic calcium phosphate ceramics: influence of macropore diameter and macroporosity percentage on bone ingrowth. Biomaterials, 1998, 19, 133-139.	5.7	587
100	Adaptive Crystal Formation in Normal and Pathological Calcifications in Synthetic Calcium Phosphate and Related Biomaterials. International Review of Cytology, 1997, 172, 129-191.	6.2	166
101	Osteoclastic resorption of biphasic calcium phosphate ceramicin vitro. , 1997, 37, 346-352.		88
102	Macroporous biphasic calcium phosphate ceramics. , 1997, , 71-74.		4
103	Macroporous biphasic calcium phosphate ceramics: Influence of five synthesis parameters on compressive strength. , 1996, 32, 603-609.		165
104	Calcium Phosphates / Biphosphonates Combinations…Towards a Therapeutic Synergy. Key Engineering Materials, 0, 377, 99-110.	0.4	0
105	Calcium Phosphate Ceramics as Bone Drug-Combined Devices. Key Engineering Materials, 0, 441, 181-201.	0.4	11
106	Mechanical Properties of Calcium Phosphate Cements (CPC) for Bone Substitution: Influence of Fabrication and Microstructure. Key Engineering Materials, 0, 493-494, 409-414.	0.4	1
107	Raman and Infrared Studies of Substituted Î ² -TCP. Key Engineering Materials, 0, 493-494, 225-230.	0.4	5