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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.

129 papers	6,939 citations	45 h-index	80 g-index
133 ext. papers	7,461 ext. citations	6 avg, IF	5.66 L-index

#	Paper	IF	Citations
129	A review on calcium phosphate coatings produced using a sputtering process--an alternative to plasma spraying. <i>Biomaterials</i> , 2005 , 26, 327-37	15.6	530
128	In vitro anti-bacterial and biological properties of magnetron co-sputtered silver-containing hydroxyapatite coating. <i>Biomaterials</i> , 2006 , 27, 5512-7	15.6	479
127	Diffusion in musculoskeletal tissue engineering scaffolds: design issues related to porosity, permeability, architecture, and nutrient mixing. <i>Annals of Biomedical Engineering</i> , 2004 , 32, 1728-43	4.7	326
126	The effect of filler loading and morphology on the mechanical properties of contemporary composites. <i>Journal of Prosthetic Dentistry</i> , 2002 , 87, 642-9	4	305
125	The effect of cross-linking of chitosan microspheres with genipin on protein release. <i>Carbohydrate Polymers</i> , 2007 , 68, 561-567	10.3	238
124	Hydroxyapatite and their use as coatings in dental implants: a review. <i>Critical Reviews in Biomedical Engineering</i> , 2000 , 28, 667-707	1.1	203
123	Structure, solubility and bond strength of thin calcium phosphate coatings produced by ion beam sputter deposition. <i>Biomaterials</i> , 1992 , 13, 249-54	15.6	197
122	Current trends in dental implants. <i>Journal of the Korean Association of Oral and Maxillofacial Surgeons</i> , 2014 , 40, 50-60	1.6	196
121	Contact angle, protein adsorption and osteoblast precursor cell attachment to chitosan coatings bonded to titanium. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2003 , 14, 1401-9	3.5	146
120	Design and characterization of a novel chitosan/nanocrystalline calcium phosphate composite scaffold for bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 88, 491-502	5.4	132
119	Porous hydroxyapatite scaffold with three-dimensional localized drug delivery system using biodegradable microspheres. <i>Journal of Controlled Release</i> , 2011 , 153, 133-40	11.7	127
118	Protein adsorption on titanium surfaces and their effect on osteoblast attachment. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 67, 344-9		123
117	Post-deposition heat treatments for ion beam sputter deposited calcium phosphate coatings. <i>Biomaterials</i> , 1994 , 15, 337-41	15.6	123
116	Rapid-prototyped PLGA/ETCP/hydroxyapatite nanocomposite scaffolds in a rabbit femoral defect model. <i>Biofabrication</i> , 2012 , 4, 025003	10.5	111
115	Evaluation of titanium plasma-sprayed and plasma-sprayed hydroxyapatite implants in vivo. <i>Biomaterials</i> , 2004 , 25, 4601-6	15.6	109
114	Bioceramics for Tissue Engineering Applications 2006 Review. <i>American Journal of Biochemistry and Biotechnology</i> , 2006 , 2, 49-56	0.4	97
113	Modulating bone cells response onto starch-based biomaterials by surface plasma treatment and protein adsorption. <i>Biomaterials</i> , 2007 , 28, 307-15	15.6	91

112	Effect of hydrothermally treated anodic oxide films on osteoblast attachment and proliferation. <i>Biomaterials</i> , 2003 , 24, 347-55	15.6	85
111	Surface characteristics and structure of anodic oxide films containing Ca and P on a titanium implant material. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 60, 333-8		79
110	BMP stimulation of bone response adjacent to titanium implants in vivo. <i>Clinical Oral Implants Research</i> , 1999 , 10, 212-8	4.8	79
109	Interaction of hydroxyapatite-titanium at elevated temperature in vacuum environment. <i>Biomaterials</i> , 2004 , 25, 2927-32	15.6	78
108	Electrochemical corrosion analyses and characterization of surface-modified titanium. <i>Applied Surface Science</i> , 1993 , 72, 7-13	6.7	74
107	The integration of chitosan-coated titanium in bone: an in vivo study in rabbits. <i>Implant Dentistry</i> , 2007 , 16, 66-79	2.4	73
106	In vivo histological response to anodized and anodized/hydrothermally treated titanium implants. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 66, 520-5		73
105	Efficacy of glow discharge gas plasma treatment as a surface modification process for three-dimensional poly (D,L-lactide) scaffolds. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 65, 327-35		72
104	Spectroscopic characterization of passivated titanium in a physiologic solution. <i>Journal of Materials Science: Materials in Medicine</i> , 1995 , 6, 113-119	4.5	67
103	Characterization of chitosan films and effects on fibroblast cell attachment and proliferation. <i>Journal of Materials Science: Materials in Medicine</i> , 2006 , 17, 1373-81	4.5	65
102	In vitro osteoblast response to anodized titanium and anodized titanium followed by hydrothermal treatment. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 65, 352-8		64
101	In vivo study on hydroxyapatite scaffolds with trabecular architecture for bone repair. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 89, 1019-27	5.4	60
100	Morphological behavior of osteoblast-like cells on surface-modified titanium in vitro. <i>Biomaterials</i> , 2002 , 23, 1383-9	15.6	59
99	Effects of dissolved calcium and phosphorous on osteoblast responses. <i>Journal of Oral Implantology</i> , 2005 , 31, 61-7	1.2	59
98	A comparative study of two noninvasive techniques to evaluate implant stability: Periotest and Osstell Mentor. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2009 , 107, 513-8		58
97	Deposition and investigation of functionally graded calcium phosphate coatings on titanium. <i>Acta Biomaterialia</i> , 2009 , 5, 3563-72	10.8	56
96	Effects of applied voltages on hydroxyapatite coating of titanium by electrophoretic deposition. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006 , 78, 373-7	3.5	56
95	Deposition of highly adhesive ZrO ₂ coating on Ti and CoCrMo implant materials using plasma spraying. <i>Biomaterials</i> , 2003 , 24, 619-27	15.6	55

94	Effect of post-deposition heating temperature and the presence of water vapor during heat treatment on crystallinity of calcium phosphate coatings. <i>Biomaterials</i> , 2003 , 24, 5131-7	15.6	53
93	Bone cell attachment and growth on well-characterized chitosan films. <i>Polymer International</i> , 2007 , 56, 641-647	3.3	52
92	A study on functionally graded HA coatings processed using ion beam assisted deposition with in situ heat treatment. <i>Surface and Coatings Technology</i> , 2006 , 200, 6111-6116	4.4	51
91	Synthesis of a novel, sequentially active-targeted drug delivery nanoplatfrom for breast cancer therapy. <i>Biomaterials</i> , 2015 , 59, 88-101	15.6	50
90	Protein adsorption and osteoblast responses to different calcium phosphate surfaces. <i>Journal of Oral Implantology</i> , 1998 , 24, 67-73	1.2	50
89	Auger electron spectroscopy and its use for the characterization of titanium and hydroxyapatite surfaces. <i>Biomaterials</i> , 1998 , 19, 455-64	15.6	48
88	Calcium phosphate coatings for medical and dental implants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1993 , 77, 141-147	5.1	48
87	Evaluation of sinus bone resorption and marginal bone loss after sinus bone grafting and implant placement. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2009 , 107, e21-8		47
86	Antibacterial effect and cytotoxicity of Ag-doped functionally graded hydroxyapatite coatings. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 553-61	3.5	46
85	Growth of calcium phosphate on poling treated ferroelectric BaTiO ₃ ceramics. <i>Biomaterials</i> , 2002 , 23, 3859-64	15.6	46
84	Decellularization and Solubilization of Porcine Liver for Use as a Substrate for Porcine Hepatocyte Culture: Method Optimization and Comparison. <i>Cell Transplantation</i> , 2017 , 26, 1840-1854	4	45
83	A cellular perspective to bioceramic scaffolds for bone tissue engineering: the state of the art. <i>Current Topics in Medicinal Chemistry</i> , 2008 , 8, 290-9	3	45
82	Osteoblast precursor cell attachment on heat-treated calcium phosphate coatings. <i>Journal of Dental Research</i> , 2003 , 82, 449-53	8.1	45
81	Bond strength, compositional, and structural properties of hydroxyapatite coating on Ti, ZrO ₂ -coated Ti, and TPS-coated Ti substrate. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 64, 509-16		45
80	Fibronectin adsorption on titanium surfaces and its effect on osteoblast precursor cell attachment. <i>Colloids and Surfaces B: Biointerfaces</i> , 2003 , 30, 291-297	6	45
79	Effect of protein on the dissolution of HA coatings. <i>Biomaterials</i> , 2000 , 21, 299-305	15.6	45
78	Hydroxyapatite coating on PEEK implants: Biomechanical and histological study in a rabbit model. <i>Materials Science and Engineering C</i> , 2016 , 68, 723-731	8.3	43
77	Hydroxyapatite/polylactide biphasic combination scaffold loaded with dexamethasone for bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 99, 638-47	5.4	43

76	Effect of silver nanoparticle geometry on methicillin susceptible and resistant <i>Staphylococcus aureus</i> , and osteoblast viability. <i>Journal of Materials Science: Materials in Medicine</i> , 2015 , 26, 215	4.5	40
75	Microstructure, mechanical properties, and biological response to functionally graded HA coatings. <i>Materials Science and Engineering C</i> , 2007 , 27, 529-533	8.3	39
74	X-ray Photoelectron Spectroscopy Characterization of Ion-Beam Sputter-Deposited Calcium Phosphate Coatings. <i>Journal of the American Ceramic Society</i> , 1991 , 74, 2301-2304	3.8	39
73	Ectopic osteoinduction and early degradation of recombinant human bone morphogenetic protein-2-loaded porous beta-tricalcium phosphate in mice. <i>Biomaterials</i> , 2005 , 26, 4265-71	15.6	37
72	Guided bone regeneration in long-bone defects with a structural hydroxyapatite graft and collagen membrane. <i>Tissue Engineering - Part A</i> , 2013 , 19, 1879-88	3.9	36
71	Effect of poling conditions on growth of calcium phosphate crystal in ferroelectric BaTiO ₃ ceramics. <i>Journal of Materials Science: Materials in Medicine</i> , 2002 , 13, 133-8	4.5	36
70	Characterization of hydrothermally treated anodic oxides containing Ca and P on titanium. <i>Journal of Materials Science: Materials in Medicine</i> , 2003 , 14, 629-34	4.5	36
69	Cellular response to well-characterized calcium phosphate coatings and titanium surfaces in vitro. <i>Journal of Biomedical Materials Research Part B</i> , 1995 , 29, 165-72		35
68	Design of a paclitaxel prodrug conjugate for active targeting of an enzyme upregulated in breast cancer cells. <i>Molecular Pharmaceutics</i> , 2014 , 11, 1906-18	5.6	34
67	Rapid sintering of hydroxyapatite by microwave processing. <i>Journal of Materials Science Letters</i> , 2002 , 21, 67-69		34
66	Stability of antibacterial self-assembled monolayers on hydroxyapatite. <i>Acta Biomaterialia</i> , 2010 , 6, 3242-53	4.5	33
65	Surface characterization of ion-beam sputter-deposited Ca-P coatings after in vitro immersion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1994 , 87, 151-162	5.1	33
64	Properties of calcium phosphate coatings before and after exposure to simulated biological fluid. <i>Biomaterials</i> , 1997 , 18, 1271-5	15.6	31
63	Effects of trabecular calcium phosphate scaffolds on stress signaling in osteoblast precursor cells. <i>Biomaterials</i> , 2007 , 28, 2747-53	15.6	31
62	Ultrasound effect on osteoblast precursor cells in trabecular calcium phosphate scaffolds. <i>Biomaterials</i> , 2007 , 28, 4788-94	15.6	31
61	Dissolution/precipitation and protein adsorption studies of calcium phosphate coatings by FT-IR/ATR techniques. <i>Journal of Biomedical Materials Research Part B</i> , 1994 , 28, 1337-46		31
60	Influence of post-deposition heating time and the presence of water vapor on sputter-coated calcium phosphate crystallinity. <i>Journal of Dental Research</i> , 2003 , 82, 833-7	8.1	30
59	Hydroxyapatite scaffold pore architecture effects in large bone defects in vivo. <i>Journal of Biomaterials Applications</i> , 2014 , 28, 1016-27	2.9	29

58	The effect of sputtered calcium phosphate coatings of different crystallinity on osteoblast differentiation. <i>Journal of Periodontology</i> , 2005 , 76, 1697-709	4.6	29
57	In vivo performance of bilayer hydroxyapatite scaffolds for bone tissue regeneration in the rabbit radius. <i>Journal of Materials Science: Materials in Medicine</i> , 2011 , 22, 647-56	4.5	28
56	Osteogenic activity of the mixture of chitosan and particulate dentin. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 87, 618-23	5.4	28
55	Preparation and characterization of anodized titanium surfaces and their effect on osteoblast responses. <i>Journal of Oral Implantology</i> , 2006 , 32, 8-13	1.2	28
54	Clinical evaluations of OSTEON as a new alloplastic material in sinus bone grafting and its effect on bone healing. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008 , 86, 270-7	3.5	27
53	Osteoblast response to phospholipid modified titanium surface. <i>Biomaterials</i> , 2003 , 24, 4585-9	15.6	27
52	Hydroxyapatite Characterized by XPS. <i>Surface Science Spectra</i> , 1996 , 4, 9-13	1.2	27
51	Characterization and dissolution behavior of sputtered calcium phosphate coatings after different postdeposition heat treatment temperatures. <i>Journal of Oral Implantology</i> , 2003 , 29, 270-7	1.2	26
50	Antimicrobial surfaces for craniofacial implants: state of the art. <i>Journal of the Korean Association of Oral and Maxillofacial Surgeons</i> , 2013 , 39, 43-54	1.6	26
49	BMP-2 tethered hydroxyapatite for bone tissue regeneration: coating chemistry and osteoblast attachment. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 3117-23	5.4	23
48	Bone response to plasma-sprayed hydroxyapatite and radiofrequency-sputtered calcium phosphate implants in vivo. <i>International Journal of Oral and Maxillofacial Implants</i> , 2002 , 17, 581-6	2.8	23
47	Sintering effects on chemical and physical properties of bioactive ceramics. <i>Journal of Advanced Ceramics</i> , 2013 , 2, 274-284	10.7	22
46	Effect of cell-seeded hydroxyapatite scaffolds on rabbit radius bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 1458-66	5.4	21
45	Quantification of leucite concentration using X-ray diffraction. <i>Dental Materials</i> , 2000 , 16, 20-5	5.7	21
44	In vivo evaluation of hydroxyapatite coatings of different crystallinities. <i>International Journal of Oral and Maxillofacial Implants</i> , 2005 , 20, 726-31	2.8	20
43	Osteoblast progenitor cell responses to characterized titanium surfaces in the presence of bone morphogenetic protein-atelopeptide type I collagen in vitro. <i>Journal of Oral Implantology</i> , 1999 , 25, 95-100	1.2	19
42	Light-polymerized compomers: coefficient of thermal expansion and microhardness. <i>Journal of Prosthetic Dentistry</i> , 2002 , 88, 396-401	4	18
41	Migration of co-cultured endothelial cells and osteoblasts in composite hydroxyapatite/polylactic acid scaffolds. <i>Annals of Biomedical Engineering</i> , 2011 , 39, 2501-9	4.7	17

40	Development of sputtered nanoscale titanium oxide coating on osseointegrated implant devices and their biological evaluation. <i>Vacuum</i> , 2008 , 83, 569-574	3.7	17
39	In vivo evaluation of modified titanium implant surfaces produced using a hybrid plasma spraying processing. <i>Materials Science and Engineering C</i> , 2002 , 20, 117-124	8.3	17
38	Effect of heat-treated titanium surfaces on protein adsorption and osteoblast precursor cell initial attachment. <i>Implant Dentistry</i> , 2005 , 14, 70-6	2.4	17
37	Progress in Wear Resistant Materials for Total Hip Arthroplasty. <i>Coatings</i> , 2017 , 7, 99	2.9	15
36	Osteoblast responses to as-deposited and heat treated sputtered CaP surfaces. <i>Journal of Materials Science: Materials in Medicine</i> , 2001 , 12, 491-5	4.5	15
35	Beta-nerve growth factor promotes neurogenesis and angiogenesis during the repair of bone defects. <i>Neural Regeneration Research</i> , 2015 , 10, 1159-65	4.5	15
34	Silk fibroin scaffolds promote formation of the ex vivo niche for salivary gland epithelial cell growth, matrix formation, and retention of differentiated function. <i>Tissue Engineering - Part A</i> , 2015 , 21, 1611-20	3.9	14
33	Gold and titanium nitride coatings on cast and machined commercially pure titanium to improve titanium- porcelain adhesion. <i>Surface and Coatings Technology</i> , 2009 , 203, 3243-3249	4.4	13
32	Silver (Ag) doped magnesium phosphate microplatelets as next-generation antibacterial orthopedic biomaterials. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020 , 108, 976-989	3.5	12
31	Histologic and histomorphometric evaluation of early and immediately loaded implants in the dog mandible. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 86, 1122-7	5.4	11
30	Effect of plasma-glow discharge as a sterilization of titanium surfaces. <i>Implant Dentistry</i> , 2003 , 12, 54-60	2.4	11
29	Hepatocyte-like cells derived from human amniotic epithelial, bone marrow, and adipose stromal cells display enhanced functionality when cultured on decellularized liver substrate. <i>Stem Cell Research</i> , 2019 , 38, 101471	1.6	10
28	A short-term study on immediate functional loading and immediate nonfunctional loading implant in dogs: histomorphometric evaluation of bone reaction. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2009 , 107, 519-24		10
27	Protein Adsorption and Osteoblast Responses to Heat-Treated Titanium Surfaces. <i>Implant Dentistry</i> , 1999 , 8, 126-132	2.4	10
26	In vivo hydroxyapatite scaffold performance in infected bone defects. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020 , 108, 1157-1166	3.5	10
25	A Review of Hydroxyapatite and its use as a Coating in Dental Implants. <i>Critical Reviews in Biomedical Engineering</i> , 2017 , 45, 411-451	1.1	9
24	Evaluation of BMP-2 tethered polyelectrolyte coatings on hydroxyapatite scaffolds in vivo. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 1782-91	3.5	9
23	Osteoblast response and calcium deposition on phospholipid modified surfaces. <i>Journal of Materials Science: Materials in Medicine</i> , 2004 , 15, 693-7	4.5	8

22	Evaluation of peri-implant tissue in nonsubmerged dental implants: a multicenter retrospective study. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2009 , 108, 189-95		7
21	Electrically Stimulated Tunable Drug Delivery From Polypyrrole-Coated Polyvinylidene Fluoride. <i>Frontiers in Chemistry</i> , 2021 , 9, 599631	5	7
20	Bilayer hydroxyapatite scaffolds for maxillofacial bone tissue engineering. <i>International Journal of Oral and Maxillofacial Implants</i> , 2012 , 27, 288-94	2.8	7
19	Polyelectrolyte multilayers and capsules: S-layer functionalization for improving stability and biocompatibility. <i>Journal of Drug Delivery Science and Technology</i> , 2017 , 38, 1-8	4.5	6
18	Three-dimensional printing for craniomaxillofacial regeneration. <i>Journal of the Korean Association of Oral and Maxillofacial Surgeons</i> , 2017 , 43, 288-298	1.6	5
17	Vascular endothelial growth factor attachment to hydroxyapatite via self-assembled monolayers promotes angiogenic activity of endothelial cells. <i>Thin Solid Films</i> , 2013 , 537, 256-262	2.2	5
16	Calcium Phosphate Coating Produced by a Sputter Deposition Process 2009 , 175-198		5
15	Surface characterization and dissolution study of biodegradable calcium metaphosphate coated by sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2010 , 53, 627-633	2.3	4
14	Histomorphometric evaluation of immediately loaded SSII implants of different surface treatments in a dog model. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 90, 396-400	5.4	3
13	Properties and cyclic fatigue of glass infiltrated tape cast alumina cores produced using a water-based solvent. <i>Dental Materials</i> , 2007 , 23, 442-9	5.7	3
12	Novel fabrication of nano-rod array structures on titanium and in vitro cell responses. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 2735-41	4.5	3
11	Polyvinyl alcohol-poly acrylic acid bilayer oral drug delivery systems: A comparison between thin films and inverse double network bilayers. <i>Journal of Biomaterials Applications</i> , 2019 , 34, 523-532	2.9	2
10	Stress corrosion cracking of an aluminum alloy used in external fixation devices. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008 , 86, 430-7	3.5	2
9	Histomorphometric analysis of delayed implantation after horizontal distraction osteogenesis of the mandible in dogs. <i>Implant Dentistry</i> , 2009 , 18, 413-9	2.4	1
8	Effect of biofluid environment on the dissolution and flexural strength of calcium phosphate bone cements. <i>Implant Dentistry</i> , 2001 , 10, 143-8	2.4	1
7	Scaffold Architecture and Matrix Strain Modulate Mesenchymal Cell and Microvascular Growth and Development in a Time Dependent Manner. <i>Cellular and Molecular Bioengineering</i> , 2020 , 13, 507-526	3.9	1
6	Ti-9Mn Ti alloy exhibits better osteogenicity than Ti-15Mn alloy in vitro. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021 , 109, 2154-2161	3.5	1
5	Reactions: Antibacterial and bioactive dental restorative materials: Do they really work?. <i>American Journal of Dentistry</i> , 2018 , 31, 32B-36B	1.3	1

4	Regeneration enhanced in critical-sized bone defects using bone-specific extracellular matrix protein. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021 , 109, 538-547	3.5	○
3	Development of bioinks for 3D printing microporous, sintered calcium phosphate scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2021 , 32, 94	4.5	○
2	Development of a Bioinspired, Self-Adhering, and Drug-Eluting Laryngotracheal Patch. <i>Laryngoscope</i> , 2021 , 131, 1958-1966	3.6	
1	Hard and soft tissue evaluation of titanium dental implants and abutments with nanotubes in canines. <i>Journal of Periodontology</i> , 2020 , 91, 516-523	4.6	