

# Hyoun-Ee Kim

## List of Publications by Year in descending order

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357  
papers

16,951  
citations

15466

65  
h-index

29081

104  
g-index

359  
all docs

359  
docs citations

359  
times ranked

14193  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved biological performance of Ti implants due to surface modification by micro-arc oxidation. <i>Biomaterials</i> , 2004, 25, 2867-2875.	5.7	629
2	Magnetolectric Effect in Composites of Magnetostrictive and Piezoelectric Materials. , 2002, 8, 107-119.		628
3	Hydroxyapatite/poly( $\mu$ -caprolactone) composite coatings on hydroxyapatite porous bone scaffold for drug delivery. <i>Biomaterials</i> , 2004, 25, 1279-1287.	5.7	480
4	Stimulation of osteoblast responses to biomimetic nanocomposites of gelatin-hydroxyapatite for tissue engineering scaffolds. <i>Biomaterials</i> , 2005, 26, 5221-5230.	5.7	416
5	Hydroxyapatite coating on titanium substrate with titania buffer layer processed by sol-gel method. <i>Biomaterials</i> , 2004, 25, 2533-2538.	5.7	360
6	Title is missing!. , 2001, 7, 17-24.		300
7	Effect of the Magnetostrictive Layer on Magnetolectric Properties in Lead Zirconate Titanate/Terfenol-D Laminate Composites. <i>Journal of the American Ceramic Society</i> , 2001, 84, 2905-2908.	1.9	265
8	The electron beam deposition of titanium on polyetheretherketone (PEEK) and the resulting enhanced biological properties. <i>Biomaterials</i> , 2010, 31, 3465-3470.	5.7	230
9	Membrane of hybrid chitosan-silica xerogel for guided bone regeneration. <i>Biomaterials</i> , 2009, 30, 743-750.	5.7	228
10	Fluor-hydroxyapatite sol-gel coating on titanium substrate for hard tissue implants. <i>Biomaterials</i> , 2004, 25, 3351-3358.	5.7	212
11	Aligned porous alumina ceramics with high compressive strengths for bone tissue engineering. <i>Scripta Materialia</i> , 2008, 58, 537-540.	2.6	181
12	Porous ZrO <sub>2</sub> bone scaffold coated with hydroxyapatite with fluorapatite intermediate layer. <i>Biomaterials</i> , 2003, 24, 3277-3284.	5.7	178
13	Hydroxyapatite porous scaffold engineered with biological polymer hybrid coating for antibiotic Vancomycin release. <i>Journal of Materials Science: Materials in Medicine</i> , 2005, 16, 189-195.	1.7	176
14	Hydroxyapatite and gelatin composite foams processed via novel freeze-drying and crosslinking for use as temporary hard tissue scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 72A, 136-145.	2.1	167
15	Perovskite stabilization and electromechanical properties of polycrystalline lead zinc niobate-lead zirconate titanate. <i>Journal of Applied Physics</i> , 2002, 91, 317.	1.1	157
16	<i>In vitro</i> and <i>in vivo</i> biocompatibility and mechanical properties of bioactive glass nanofiber and poly( $\mu$ -caprolactone) composite materials. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 91B, 213-220.	1.6	151
17	Densification and Mechanical Properties of B <sub>4</sub> C with Al <sub>2</sub> O <sub>3</sub> as a Sintering Aid. <i>Journal of the American Ceramic Society</i> , 2000, 83, 2863-2865.	1.9	149
18	Mechanical and <i>in vitro</i> biological performances of hydroxyapatite-carbon nanotube composite coatings deposited on Ti by aerosol deposition. <i>Acta Biomaterialia</i> , 2009, 5, 3205-3214.	4.1	148

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19	Highly Aligned Porous Silicon Carbide Ceramics by Freezing Polycarbosilane/Camphene Solution. <i>Journal of the American Ceramic Society</i> , 2007, 90, 1753-1759.	1.9	142
20	Porous scaffolds of gelatin-hydroxyapatite nanocomposites obtained by biomimetic approach: Characterization and antibiotic drug release. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2005, 74B, 686-698.	1.6	141
21	Microstructural Evolution and Mechanical Properties of $\text{Si}_3\text{N}_4$ with $\text{Yb}_2\text{O}_3$ as a Sintering Additive. <i>Journal of the American Ceramic Society</i> , 1997, 80, 750-756.	1.9	136
22	Formation of hydroxyapatite within porous $\text{TiO}_2$ layer by micro-arc oxidation coupled with electrophoretic deposition. <i>Acta Biomaterialia</i> , 2009, 5, 2196-2205.	4.1	130
23	Improvement in biocompatibility of $\text{ZrO}_2/\text{Al}_2\text{O}_3$ nano-composite by addition of HA. <i>Biomaterials</i> , 2005, 26, 509-517.	5.7	128
24	Bioactive glass nanofiber/collagen nanocomposite as a novel bone regeneration matrix. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 79A, 698-705.	2.1	123
25	Highly porous hydroxyapatite bioceramics with interconnected pore channels using camphene-based freeze casting. <i>Materials Letters</i> , 2007, 61, 2270-2273.	1.3	123
26	Sol-gel derived fluor-hydroxyapatite biocoatings on zirconia substrate. <i>Biomaterials</i> , 2004, 25, 2919-2926.	5.7	122
27	Biocompatibility of titanium implants modified by microarc oxidation and hydroxyapatite coating. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 73A, 48-54.	2.1	122
28	Enhancement of bio-stability and mechanical properties of hyaluronic acid hydrogels by tannic acid treatment. <i>Carbohydrate Polymers</i> , 2018, 186, 290-298.	5.1	115
29	Reinforcement of Hydroxyapatite Bioceramic by Addition of $\text{ZrO}_2$ Coated with $\text{Al}_2\text{O}_3$ . <i>Journal of the American Ceramic Society</i> , 1999, 82, 2963-2968.	1.9	113
30	Generation of Large Pore Channels for Bone Tissue Engineering Using Camphene-Based Freeze Casting. <i>Journal of the American Ceramic Society</i> , 2007, 90, 1744-1752.	1.9	113
31	Effect of $\text{CaF}_2$ on densification and properties of hydroxyapatite/zirconia composites for biomedical applications. <i>Biomaterials</i> , 2002, 23, 4113-4121.	5.7	109
32	Nanostructured poly( $\mu$ -caprolactone)/silica xerogel fibrous membrane for guided bone regeneration. <i>Acta Biomaterialia</i> , 2010, 6, 3557-3565.	4.1	109
33	Chitosan/nanohydroxyapatite composite membranes via dynamic filtration for guided bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 88A, 569-580.	2.1	108
34	Development of hydroxyapatite bone scaffold for controlled drug release via poly( $\epsilon$ -caprolactone) and hydroxyapatite hybrid coatings. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 70B, 240-249.	3.0	105
35	Effect of Polystyrene Addition on Freeze Casting of Ceramic/Camphene Slurry for Ultra-High Porosity Ceramics with Aligned Pore Channels. <i>Journal of the American Ceramic Society</i> , 2006, 89, 3646-3653.	1.9	104
36	Nanofibrous gelatin/silica hybrid scaffolds mimicking the native extracellular matrix (ECM) using thermally induced phase separation. <i>Journal of Materials Chemistry</i> , 2012, 22, 14133.	6.7	104

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37	Oxidation Behavior of Titanium Boride at Elevated Temperatures. Journal of the American Ceramic Society, 2001, 84, 239-241.	1.9	103
38	Strong and biocompatible poly(lactic acid) membrane enhanced by Ti <sub>3</sub> C <sub>2</sub> T <sub>z</sub> (MXene) nanosheets for Guided bone regeneration. Materials Letters, 2018, 229, 114-117.	1.3	100
39	Hydroxyapatite-coated magnesium implants with improved <i>in vitro</i> and <i>in vivo</i> biocorrosion, biocompatibility, and bone response. Journal of Biomedical Materials Research - Part A, 2014, 102, 429-441.	2.1	97
40	Calcium Phosphate Bioceramics with Various Porosities and Dissolution Rates. Journal of the American Ceramic Society, 2002, 85, 3129-3131.	1.9	96
41	Densification and Mechanical Properties of Titanium Diboride with Silicon Nitride as a Sintering Aid. Journal of the American Ceramic Society, 1999, 82, 3037-3042.	1.9	96
42	Freezing Dilute Ceramic/Camphene Slurry for Ultra-High Porosity Ceramics with Completely Interconnected Pore Networks. Journal of the American Ceramic Society, 2006, 89, 3089-3093.	1.9	95
43	Reinforcement of Hydroxyapatite Bioceramic by Addition of Ni <sub>3</sub> Al and Al <sub>2</sub> O <sub>3</sub> . Journal of the American Ceramic Society, 1998, 81, 1743-1748.	1.9	92
44	Osteoconductive hydroxyapatite coated PEEK for spinal fusion surgery. Applied Surface Science, 2013, 283, 6-11.	3.1	92
45	Strontium substituted calcium phosphate biphasic ceramics obtained by a powder precipitation method. Journal of Materials Science: Materials in Medicine, 2004, 15, 1129-1134.	1.7	89
46	Calcium phosphates and glass composite coatings on zirconia for enhanced biocompatibility. Biomaterials, 2004, 25, 4203-4213.	5.7	89
47	Fabrication of strong, bioactive vascular grafts with PCL/collagen and PCL/silica bilayers for small-diameter vascular applications. Materials and Design, 2019, 181, 108079.	3.3	89
48	Fluoridated apatite coatings on titanium obtained by electron-beam deposition. Biomaterials, 2005, 26, 3843-3851.	5.7	87
49	Fabrication of Porous PZT/PZN Piezoelectric Ceramics With High Hydrostatic Figure of Merits Using Camphene-Based Freeze Casting. Journal of the American Ceramic Society, 2007, 90, 2807-2813.	1.9	86
50	Reverse freeze casting: A new method for fabricating highly porous titanium scaffolds with aligned large pores. Acta Biomaterialia, 2012, 8, 2401-2410.	4.1	86
51	Electrospun fibrous web of collagen-apatite precipitated nanocomposite for bone regeneration. Journal of Materials Science: Materials in Medicine, 2008, 19, 2925-2932.	1.7	85
52	Collagen/hydroxyapatite composite nanofibers by electrospinning. Materials Letters, 2008, 62, 3055-3058.	1.3	85
53	Hydroxyapatite and titania sol-gel composite coatings on titanium for hard tissue implants; Mechanical and <i>in vitro</i> biological performance. Journal of Biomedical Materials Research Part B, 2005, 72B, 1-8.	3.0	84
54	Three-layered membranes of collagen/hydroxyapatite and chitosan for guided bone regeneration. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 87B, 132-138.	1.6	83

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55	A bioactive coating of a silica xerogel/chitosan hybrid on titanium by a room temperature sol-gel process. <i>Acta Biomaterialia</i> , 2010, 6, 302-307.	4.1	83
56	Hydroxyapatite-TiO <sub>2</sub> Hybrid Coating on Ti Implants. <i>Journal of Biomaterials Applications</i> , 2006, 20, 195-208.	1.2	82
57	Hydroxyapatite coating on magnesium with MgF <sub>2</sub> interlayer for enhanced corrosion resistance and biocompatibility. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 2437-2447.	1.7	82
58	Stability and cellular responses to fluorapatite-collagen composites. <i>Biomaterials</i> , 2005, 26, 2957-2963.	5.7	81
59	Improved compressive strength of reticulated porous zirconia using carbon coated polymeric sponge as novel template. <i>Materials Letters</i> , 2006, 60, 2507-2510.	1.3	79
60	Dynamic freeze casting for the production of porous titanium (Ti) scaffolds. <i>Materials Science and Engineering C</i> , 2013, 33, 59-63.	3.8	78
61	Collagen-apatite nanocomposite membranes for guided bone regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007, 83B, 248-257.	1.6	77
62	Effect of Heating Rate on the Sintering Behavior and the Piezoelectric Properties of Lead Zirconate Titanate Ceramics. <i>Journal of the American Ceramic Society</i> , 2001, 84, 902-904.	1.9	76
63	Bone morphogenic protein-2 (BMP-2) loaded hybrid coating on porous hydroxyapatite scaffolds for bone tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 773-782.	1.7	76
64	Cytocompatibility of Ti <sub>3</sub> AlC <sub>2</sub> , Ti <sub>3</sub> SiC <sub>2</sub> , and Ti <sub>2</sub> AlN: <i>In Vitro</i> Tests and First-Principles Calculations. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 2293-2301.	2.6	75
65	Porous titanium (Ti) scaffolds by freezing TiH <sub>2</sub> /camphene slurries. <i>Materials Letters</i> , 2008, 62, 4506-4508.	1.3	72
66	Calcium Sulfate Hemihydrate Powders with a Controlled Morphology for Use as Bone Cement. <i>Journal of the American Ceramic Society</i> , 2008, 91, 2039-2042.	1.9	71
67	Fabrication of porous titanium scaffold with controlled porous structure and net-shape using magnesium as spacer. <i>Materials Science and Engineering C</i> , 2013, 33, 2808-2815.	3.8	70
68	Biomimetic porous Mg with tunable mechanical properties and biodegradation rates for bone regeneration. <i>Acta Biomaterialia</i> , 2019, 84, 453-467.	4.1	69
69	Effect of Lead Content on the Structure and Electrical Properties of Pb((Zn <sub>1/3</sub> Nb <sub>2/3</sub> ) <sub>0.5</sub> (Zr <sub>0.47</sub> Ti <sub>0.53</sub> ) <sub>0.5</sub> )O <sub>3</sub> Ceramics. <i>Journal of the American Ceramic Society</i> , 2001, 84, 636-638.	3.3	68
70	Pressureless Sintering and Mechanical and Biological Properties of Fluorapatite Hydroxyapatite Composites with Zirconia. <i>Journal of the American Ceramic Society</i> , 2003, 86, 2019-2026.	1.9	67
71	Bioactive nanocomposite coatings of collagen/hydroxyapatite on titanium substrates. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 2453-2461.	1.7	67
72	Low-temperature sintering of MnO <sub>2</sub> -doped PZT-PZN Piezoelectric ceramics. <i>Journal of Electroceramics</i> , 2007, 18, 311-315.	0.8	64

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73	Production of Poly( $\mu$ -Caprolactone)/Hydroxyapatite Composite Scaffolds with a Tailored Macro/Micro-Porous Structure, High Mechanical Properties, and Excellent Bioactivity. <i>Materials</i> , 2017, 10, 1123.	1.3	64
74	Biological performance of calcium phosphate films formed on commercially pure Ti by electron-beam evaporation. <i>Biomaterials</i> , 2002, 23, 609-615.	5.7	63
75	Fabrication of porous titanium scaffolds with high compressive strength using camphene-based freeze casting. <i>Materials Letters</i> , 2009, 63, 1502-1504.	1.3	63
76	Photocurable ceramic slurry using solid camphor as novel diluent for conventional digital light processing (DLP) process. <i>Journal of the European Ceramic Society</i> , 2019, 39, 4358-4365.	2.8	63
77	Measurement of piezoelectric coefficients of lead zirconate titanate thin films by strain-monitoring pneumatic loading method. <i>Applied Physics Letters</i> , 2002, 80, 4606-4608.	1.5	62
78	Fibrillar assembly and stability of collagen coating on titanium for improved osteoblast responses. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 75A, 629-638.	2.1	61
79	Fabrication of titanium scaffolds with porosity and pore size gradients by sequential freeze casting. <i>Materials Letters</i> , 2009, 63, 1545-1547.	1.3	61
80	Highly porous hydroxyapatite scaffolds with elongated pores using stretched polymeric sponges as novel template. <i>Materials Letters</i> , 2009, 63, 1702-1704.	1.3	61
81	Strong and Biostable Hyaluronic Acid-Calcium Phosphate Nanocomposite Hydrogel via in Situ Precipitation Process. <i>Biomacromolecules</i> , 2016, 17, 841-851.	2.6	60
82	Effect of biphasic calcium phosphates on drug release and biological and mechanical properties of poly( $\epsilon$ -caprolactone) composite membranes. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 70A, 467-479.	3.0	59
83	Effect of Flaw State on the Strength of Brittle Coatings on Soft Substrates. <i>Journal of the American Ceramic Society</i> , 2001, 84, 2377-2384.	1.9	58
84	Piezoelectric Properties of PZT-Based Ceramic with Highly Aligned Pores. <i>Journal of the American Ceramic Society</i> , 2008, 91, 1912-1915.	1.9	58
85	Fabrication and compressive strength of porous hydroxyapatite scaffolds with a functionally graded core/shell structure. <i>Journal of the European Ceramic Society</i> , 2011, 31, 13-18.	2.8	58
86	Hierarchical micro-nano structured Ti6Al4V surface topography via two-step etching process for enhanced hydrophilicity and osteoblastic responses. <i>Materials Science and Engineering C</i> , 2017, 73, 90-98.	3.8	57
87	Dense Nanostructured Hydroxyapatite Coating on Titanium by Aerosol Deposition. <i>Journal of the American Ceramic Society</i> , 2009, 92, 683-687.	1.9	56
88	Blend fibers of chitosan-agarose by electrospinning. <i>Materials Letters</i> , 2009, 63, 2510-2512.	1.3	56
89	Compressive strength and processing of camphene-based freeze cast calcium phosphate scaffolds with aligned pores. <i>Materials Letters</i> , 2009, 63, 1548-1550.	1.3	55
90	Aerosol deposition of silicon-substituted hydroxyapatite coatings for biomedical applications. <i>Thin Solid Films</i> , 2010, 518, 2194-2199.	0.8	55

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91	Effect of Hot-Pressing Temperature on Densification and Mechanical Properties of Titanium Diboride with Silicon Nitride as a Sintering Aid. <i>Journal of the American Ceramic Society</i> , 2000, 83, 1542-1544.	1.9	54
92	Porous Hydroxyapatite Scaffolds Coated With Bioactive Apatite-Wollastonite Glass-Ceramics. <i>Journal of the American Ceramic Society</i> , 2007, 90, 2703-2708.	1.9	52
93	Electro-optic characteristics of (001)-oriented Ba <sub>0.6</sub> Sr <sub>0.4</sub> TiO <sub>3</sub> thin films. <i>Applied Physics Letters</i> , 2003, 82, 1455-1457.	1.5	51
94	Low-Temperature Sintering and Piezoelectric Properties of 0.6Pb(Zr <sub>0.47</sub> Ti <sub>0.53</sub> )O <sub>3</sub> ·0.4Pb(Zn <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> . <i>Ceramics International</i> , 2004, 30, 1238-1243.	1.5	51
95	Oxidation and Strength Retention of Monolithic Si <sub>3</sub> N <sub>4</sub> and Nanocomposite Si <sub>3</sub> N <sub>4</sub> -SiC with Yb <sub>2</sub> O <sub>3</sub> as a Sintering Aid. <i>Journal of the American Ceramic Society</i> , 1998, 81, 2130-2134.	1.9	51
96	Sol-gel-modified titanium with hydroxyapatite thin films and effect on osteoblast-like cell responses. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 74A, 294-305.	2.1	51
97	Highly porous titanium (Ti) scaffolds with bioactive microporous hydroxyapatite/TiO <sub>2</sub> hybrid coating layer. <i>Materials Letters</i> , 2009, 63, 1995-1998.	1.3	51
98	Novel strategy for mechanically tunable and bioactive metal implants. <i>Biomaterials</i> , 2015, 37, 49-61.	5.7	51
99	Hydroxyapatite and fluor-hydroxyapatite layered film on titanium processed by a sol-gel route for hard-tissue implants. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 71B, 66-76.	3.0	50
100	Fabrication of a Porous Bioactive Glass-Ceramic Using Room-Temperature Freeze Casting. <i>Journal of the American Ceramic Society</i> , 2006, 89, 2649-2653.	1.9	50
101	Silica xerogel-chitosan nano-hybrids for use as drug eluting bone replacement. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 207-214.	1.7	49
102	Production and bio-corrosion resistance of porous magnesium with hydroxyapatite coating for biomedical applications. <i>Materials Letters</i> , 2013, 108, 122-124.	1.3	49
103	Piezoelectric and ferroelectric properties of 1-¼m-thick lead zirconate titanate film fabricated by a double-spin-coating process. <i>Applied Physics Letters</i> , 2004, 85, 2322-2324.	1.5	48
104	Porous alumina ceramic scaffolds with biomimetic macro/micro-porous structure using three-dimensional (3-D) ceramic/camphene-based extrusion. <i>Ceramics International</i> , 2015, 41, 12371-12377.	2.3	48
105	Construction of tantalum/poly(ether imide) coatings on magnesium implants with both corrosion protection and osseointegration properties. <i>Bioactive Materials</i> , 2021, 6, 1189-1200.	8.6	48
106	Effect of calcinations of starting powder on mechanical properties of hydroxyapatite-alumina bioceramic composite. <i>Journal of Materials Science: Materials in Medicine</i> , 2002, 13, 307-310.	1.7	47
107	Functionally gradient chitosan/hydroxyapatite composite scaffolds for controlled drug release. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 90B, 275-282.	1.6	47
108	Enhanced performance of fluorine substituted hydroxyapatite composites for hard tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2003, 14, 899-904.	1.7	46



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109	Effect of lead zinc niobate addition on sintering behavior and piezoelectric properties of lead zirconate titanate ceramic. <i>Journal of Materials Research</i> , 2004, 19, 2553-2556.	1.2	46
110	Dissolution control and cellular responses of calcium phosphate coatings on zirconia porous scaffold. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 68A, 522-530.	3.0	46
111	Bone Formation on the Apatite-coated Zirconia Porous Scaffolds within a Rabbit Calvarial Defect. <i>Journal of Biomaterials Applications</i> , 2008, 22, 485-504.	1.2	46
112	Creation of nanoporous TiO <sub>2</sub> surface onto polyetheretherketone for effective immobilization and delivery of bone morphogenetic protein. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 793-800.	2.1	45
113	Fabrication of Macrochannelled-Hydroxyapatite Bioceramic by a Coextrusion Process. <i>Journal of the American Ceramic Society</i> , 2002, 85, 2578-2580.	1.9	44
114	In situ Fabrication of a Dense/Porous Bi-layered Ceramic Composite using Freeze Casting of a Ceramic-Camphene Slurry. <i>Journal of the American Ceramic Society</i> , 2006, 89, 763-766.	1.9	44
115	Sol-gel derived nanoscale bioactive glass (NBC) particles reinforced poly( $\mu$ -caprolactone) composites for bone tissue engineering. <i>Materials Science and Engineering C</i> , 2013, 33, 1102-1108.	3.8	44
116	Fabrication of poly(lactic acid)/Ti composite scaffolds with enhanced mechanical properties and biocompatibility via fused filament fabrication (FFF)-based 3D printing. <i>Additive Manufacturing</i> , 2019, 30, 100883.	1.7	44
117	Microstructural Evolution of Transparent PLZT Ceramics Sintered in Air and Oxygen Atmospheres. <i>Journal of the American Ceramic Society</i> , 2001, 84, 1465-1469.	1.9	43
118	Fabrication of a Highly Porous Bioactive Glass-Ceramic Scaffold with a High Surface Area and Strength. <i>Journal of the American Ceramic Society</i> , 2006, 89, 391-394.	1.9	43
119	Highly aligned porous Ti scaffold coated with bone morphogenetic protein-loaded silica/chitosan hybrid for enhanced bone regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014, 102, 913-921.	1.6	43
120	MgF <sub>2</sub> -coated porous magnesium/alumina scaffolds with improved strength, corrosion resistance, and biological performance for biomedical applications. <i>Materials Science and Engineering C</i> , 2016, 62, 634-642.	3.8	43
121	Enhanced Osseointegration Ability of Poly(lactic acid) via Tantalum Sputtering-Based Plasma Immersion Ion Implantation. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 10492-10504.	4.0	43
122	Biodegradable magnesium alloy (WE43) in bone-fixation plate and screw. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 2505-2512.	1.6	43
123	Reaction sintering and mechanical properties of B <sub>4</sub> C with addition of ZrO <sub>2</sub> . <i>Journal of Materials Research</i> , 2000, 15, 2431-2436.	1.2	42
124	Enhancing biocompatibility and corrosion resistance of Mg implants via surface treatments. <i>Journal of Biomaterials Applications</i> , 2012, 27, 469-476.	1.2	42
125	Bioactive glass microspheres as reinforcement for improving the mechanical properties and biological performance of poly( $\mu$ -caprolactone) polymer for bone tissue regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012, 100B, 967-975.	1.6	42
126	<i>In Situ</i> Synthesis of Porous Silicon Carbide (SiC) Ceramics Decorated with SiC Nanowires. <i>Journal of the American Ceramic Society</i> , 2007, 90, 3759-3766.	1.9	41



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127	Macroporous alumina scaffolds consisting of highly microporous hollow filaments using three-dimensional ceramic/camphene-based co-extrusion. <i>Journal of the European Ceramic Society</i> , 2015, 35, 4623-4627.	2.8	41
128	The Production of Porous Hydroxyapatite Scaffolds with Graded Porosity by Sequential Freeze-Casting. <i>Materials</i> , 2017, 10, 367.	1.3	41
129	Oxidation Behavior and Flexural Strength of Aluminum Nitride Exposed to Air at Elevated Temperatures. <i>Journal of the American Ceramic Society</i> , 1994, 77, 1037-1041.	1.9	40
130	Formation and characterization of hydroxyapatite coating layer on Ti-based metal implant by electron-beam deposition. <i>Journal of Materials Research</i> , 1999, 14, 2980-2985.	1.2	40
131	Effect of lanthanum on the piezoelectric properties of lead zirconate titanate/lead zinc niobate ceramics. <i>Journal of Materials Research</i> , 2003, 18, 1765-1770.	1.2	40
132	Porous Calcium Phosphate Ceramic Scaffolds with Tailored Pore Orientations and Mechanical Properties Using Lithography-Based Ceramic 3D Printing Technique. <i>Materials</i> , 2018, 11, 1711.	1.3	40
133	Preparation and Improvement in the Electrical Properties of Lead-zinc-niobate-based Ceramics by Thermal Treatments. <i>Journal of Materials Research</i> , 2002, 17, 180-185.	1.2	39
134	Hydroxyapatite (HA)/poly-l-lactic acid (PLLA) dual coating on magnesium alloy under deformation for biomedical applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 34.	1.7	39
135	Reaction Sintering and Mechanical Properties of Hydroxyapatite/Zirconia Composites with Calcium Fluoride Additions. <i>Journal of the American Ceramic Society</i> , 2002, 85, 1634-1636.	1.9	38
136	Microsphere of apatite-gelatin nanocomposite as bone regenerative filler. <i>Journal of Materials Science: Materials in Medicine</i> , 2005, 16, 1105-1109.	1.7	37
137	Effects of Residual Stress on the Electrical Properties of PZT Films. <i>Journal of the American Ceramic Society</i> , 2007, 90, 1077-1080.	1.9	37
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