

# Hyoun-Ee Kim

## List of Publications by Citations

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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.

357  
papers

14,268  
citations

62  
h-index

102  
g-index

359  
ext. papers

15,519  
ext. citations

5  
avg, IF

6.55  
L-index

#	Paper	IF	Citations
357	Magnetolectric Effect in Composites of Magnetostrictive and Piezoelectric Materials <b>2002</b> , 8, 107-119		560
356	Improved biological performance of Ti implants due to surface modification by micro-arc oxidation. <i>Biomaterials</i> , <b>2004</b> , 25, 2867-75	15.6	550
355	Hydroxyapatite/poly(epsilon-caprolactone) composite coatings on hydroxyapatite porous bone scaffold for drug delivery. <i>Biomaterials</i> , <b>2004</b> , 25, 1279-87	15.6	435
354	Stimulation of osteoblast responses to biomimetic nanocomposites of gelatin-hydroxyapatite for tissue engineering scaffolds. <i>Biomaterials</i> , <b>2005</b> , 26, 5221-30	15.6	381
353	Hydroxyapatite coating on titanium substrate with titania buffer layer processed by sol-gel method. <i>Biomaterials</i> , <b>2004</b> , 25, 2533-8	15.6	309
352	Piezoelectric and Magnetolectric Properties of Lead Zirconate Titanate/Ni-Ferrite Particulate Composites <b>2001</b> , 7, 17-24		277
351	Effect of the Magnetostrictive Layer on Magnetolectric Properties in Lead Zirconate Titanate/Terfenol-D Laminate Composites. <i>Journal of the American Ceramic Society</i> , <b>2001</b> , 84, 2905-2908 <sup>3.8</sup>		233
350	Membrane of hybrid chitosan-silica xerogel for guided bone regeneration. <i>Biomaterials</i> , <b>2009</b> , 30, 743-50	15.6	212
349	The electron beam deposition of titanium on polyetheretherketone (PEEK) and the resulting enhanced biological properties. <i>Biomaterials</i> , <b>2010</b> , 31, 3465-70	15.6	185
348	Fluor-hydroxyapatite sol-gel coating on titanium substrate for hard tissue implants. <i>Biomaterials</i> , <b>2004</b> , 25, 3351-8	15.6	183
347	Porous ZrO <sub>2</sub> bone scaffold coated with hydroxyapatite with fluorapatite intermediate layer. <i>Biomaterials</i> , <b>2003</b> , 24, 3277-84	15.6	164
346	Hydroxyapatite porous scaffold engineered with biological polymer hybrid coating for antibiotic Vancomycin release. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2005</b> , 16, 189-95	4.5	159
345	Aligned porous alumina ceramics with high compressive strengths for bone tissue engineering. <i>Scripta Materialia</i> , <b>2008</b> , 58, 537-540	5.6	157
344	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> , <b>2005</b> , 72, 136-45 <sup>5.4</sup>		151
343	Perovskite stabilization and electromechanical properties of polycrystalline lead zinc niobate/lead zirconate titanate. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 317	2.5	142
342	Mechanical and in vitro biological performances of hydroxyapatite-carbon nanotube composite coatings deposited on Ti by aerosol deposition. <i>Acta Biomaterialia</i> , <b>2009</b> , 5, 3205-14	10.8	136
341	In vitro/in vivo biocompatibility and mechanical properties of bioactive glass nanofiber and poly(epsilon-caprolactone) composite materials. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2009</b> , 91, 213-20	3.5	133

340	Highly Aligned Porous Silicon Carbide Ceramics by Freezing Polycarbosilane/Camphene Solution. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 1753-1759	3.8	133
339	Densification and Mechanical Properties of B4C with Al2O3 as a Sintering Aid. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 83, 2863-2865	3.8	123
338	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> , <b>2005</b> , 74, 686-98	3.5	123
337	Formation of hydroxyapatite within porous TiO(2) layer by micro-arc oxidation coupled with electrophoretic deposition. <i>Acta Biomaterialia</i> , <b>2009</b> , 5, 2196-205	10.8	117
336	Improvement in biocompatibility of ZrO2-Al2O3 nano-composite by addition of HA. <i>Biomaterials</i> , <b>2005</b> , 26, 509-17	15.6	116
335	Sol-gel derived fluor-hydroxyapatite biocoatings on zirconia substrate. <i>Biomaterials</i> , <b>2004</b> , 25, 2919-26	15.6	113
334	Microstructural Evolution and Mechanical Properties of Si3N4 with Yb2O3 as a Sintering Additive. <i>Journal of the American Ceramic Society</i> , <b>1997</b> , 80, 750-756	3.8	112
333	Highly porous hydroxyapatite bioceramics with interconnected pore channels using camphene-based freeze casting. <i>Materials Letters</i> , <b>2007</b> , 61, 2270-2273	3.3	111
332	Biocompatibility of titanium implants modified by microarc oxidation and hydroxyapatite coating. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2005</b> , 73, 48-54	5.4	111
331	Bioactive glass nanofiber-collagen nanocomposite as a novel bone regeneration matrix. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2006</b> , 79, 698-705	5.4	107
330	Reinforcement of Hydroxyapatite Bioceramic by Addition of ZrO2 Coated with Al2O3. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 82, 2963-2968	3.8	103
329	Generation of Large Pore Channels for Bone Tissue Engineering Using Camphene-Based Freeze Casting. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 1744-1752	3.8	99
328	Nanostructured poly(epsilon-caprolactone)-silica xerogel fibrous membrane for guided bone regeneration. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 3557-65	10.8	97
327	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> , <b>2006</b> , 89, 3646-3653	3.8	97
326	Effect of CaF2 on densification and properties of hydroxyapatite-zirconia composites for biomedical applications. <i>Biomaterials</i> , <b>2002</b> , 23, 4113-21	15.6	96
325	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> , <b>2004</b> , 70, 240-9		95
324	Chitosan/nanohydroxyapatite composite membranes via dynamic filtration for guided bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 88, 569-80	5.4	94
323	Nanofibrous gelatin/silica hybrid scaffolds mimicking the native extracellular matrix (ECM) using thermally induced phase separation. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 14133		93

322	Freezing Dilute Ceramic/Camphene Slurry for Ultra-High Porosity Ceramics with Completely Interconnected Pore Networks. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 3089-3093	3.8	85
321	Reinforcement of Hydroxyapatite Bioceramic by Addition of Ni3Al and Al2O3. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 81, 1743-1748	3.8	85
320	Strontium substituted calcium phosphate biphasic ceramics obtained by a powder precipitation method. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2004</b> , 15, 1129-34	4.5	84
319	Densification and Mechanical Properties of Titanium Diboride with Silicon Nitride as a Sintering Aid. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 82, 3037-3042	3.8	83
318	Oxidation Behavior of Titanium Boride at Elevated Temperatures. <i>Journal of the American Ceramic Society</i> , <b>2001</b> , 84, 239-241	3.8	83
317	Fluoridated apatite coatings on titanium obtained by electron-beam deposition. <i>Biomaterials</i> , <b>2005</b> , 26, 3843-51	15.6	80
316	Osteoconductive hydroxyapatite coated PEEK for spinal fusion surgery. <i>Applied Surface Science</i> , <b>2013</b> , 283, 6-11	6.7	79
315	A bioactive coating of a silica xerogel/chitosan hybrid on titanium by a room temperature sol-gel process. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 302-7	10.8	79
314	Electrospun fibrous web of collagen-apatite precipitated nanocomposite for bone regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2008</b> , 19, 2925-32	4.5	78
313	Three-layered membranes of collagen/hydroxyapatite and chitosan for guided bone regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2008</b> , 87, 132-8	3.5	76
312	Hydroxyapatite and titania sol-gel composite coatings on titanium for hard tissue implants; mechanical and in vitro biological performance. <i>Journal of Biomedical Materials Research Part B</i> , <b>2005</b> , 72, 1-8		76
311	Reverse freeze casting: a new method for fabricating highly porous titanium scaffolds with aligned large pores. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 2401-10	10.8	75
310	Collagen/hydroxyapatite composite nanofibers by electrospinning. <i>Materials Letters</i> , <b>2008</b> , 62, 3055-3058	3.3	75
309	Calcium phosphates and glass composite coatings on zirconia for enhanced biocompatibility. <i>Biomaterials</i> , <b>2004</b> , 25, 4203-13	15.6	74
308	Enhancement of bio-stability and mechanical properties of hyaluronic acid hydrogels by tannic acid treatment. <i>Carbohydrate Polymers</i> , <b>2018</b> , 186, 290-298	10.3	72
307	Hydroxyapatite-TiO2 hybrid coating on Ti implants. <i>Journal of Biomaterials Applications</i> , <b>2006</b> , 20, 195-208	3.9	72
306	Fabrication of Porous PZT/BZN Piezoelectric Ceramics With High Hydrostatic Figure of Merits Using Camphene-Based Freeze Casting. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 2807-2813	3.8	71
305	Calcium Phosphate Bioceramics with Various Porosities and Dissolution Rates. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 85, 3129-3131	3.8	71

304	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> , <b>2011</b> , 22, 2437-47	4.5	70
303	Improved compressive strength of reticulated porous zirconia using carbon coated polymeric sponge as novel template. <i>Materials Letters</i> , <b>2006</b> , 60, 2507-2510	3.3	70
302	Dynamic freeze casting for the production of porous titanium (Ti) scaffolds. <i>Materials Science and Engineering C</i> , <b>2013</b> , 33, 59-63	8.3	68
301	Porous titanium (Ti) scaffolds by freezing TiH <sub>2</sub> /camphene slurries. <i>Materials Letters</i> , <b>2008</b> , 62, 4506-4508	3.3	68
300	Stability and cellular responses to fluorapatite-collagen composites. <i>Biomaterials</i> , <b>2005</b> , 26, 2957-63	15.6	68
299	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> , <b>2001</b> , 84, 902-904	3.8	68
298	Hydroxyapatite-coated magnesium implants with improved in vitro and in vivo biocorrosion, biocompatibility, and bone response. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2014</b> , 102, 429-435	5.4	67
297	Collagen-apatite nanocomposite membranes for guided bone regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2007</b> , 83, 248-57	3.5	66
296	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> , <b>2013</b> , 24, 773-82	4.5	65
295	Calcium Sulfate Hemihydrate Powders with a Controlled Morphology for Use as Bone Cement. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 2039-2042	3.8	62
294	Pressureless Sintering and Mechanical and Biological Properties of Fluor-hydroxyapatite Composites with Zirconia. <i>Journal of the American Ceramic Society</i> , <b>2003</b> , 86, 2019-2026	3.8	62
293	Biological performance of calcium phosphate films formed on commercially pure Ti by electron-beam evaporation. <i>Biomaterials</i> , <b>2002</b> , 23, 609-15	15.6	58
292	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> , <b>2001</b> , 84, 636-638	3.8	58
291	Low-temperature sintering of MnO <sub>2</sub> -doped PZT/BZN Piezoelectric ceramics. <i>Journal of Electroceramics</i> , <b>2007</b> , 18, 311-315	1.5	56
290	Bioactive nanocomposite coatings of collagen/hydroxyapatite on titanium substrates. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2008</b> , 19, 2453-61	4.5	56
289	Fibrillar assembly and stability of collagen coating on titanium for improved osteoblast responses. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2005</b> , 75, 629-38	5.4	56
288	Fabrication of porous titanium scaffold with controlled porous structure and net-shape using magnesium as spacer. <i>Materials Science and Engineering C</i> , <b>2013</b> , 33, 2808-15	8.3	55
287	Fabrication of porous titanium scaffolds with high compressive strength using camphene-based freeze casting. <i>Materials Letters</i> , <b>2009</b> , 63, 1502-1504	3.3	55

286	Highly porous hydroxyapatite scaffolds with elongated pores using stretched polymeric sponges as novel template. <i>Materials Letters</i> , <b>2009</b> , 63, 1702-1704	3.3	55
285	Effect of Flaw State on the Strength of Brittle Coatings on Soft Substrates. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 84, 2377-2384	3.8	55
284	Fabrication of titanium scaffolds with porosity and pore size gradients by sequential freeze casting. <i>Materials Letters</i> , <b>2009</b> , 63, 1545-1547	3.3	53
283	Production of Poly( $\epsilon$ -Caprolactone)/Hydroxyapatite Composite Scaffolds with a Tailored Macro/Micro-Porous Structure, High Mechanical Properties, and Excellent Bioactivity. <i>Materials</i> , <b>2017</b> , 10,	3.5	52
282	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> , <b>2004</b> , 70, 467-79		51
281	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> , <b>2017</b> , 73, 90-98	8.3	50
280	Strong and Biostable Hyaluronic Acid-Calcium Phosphate Nanocomposite Hydrogel via in Situ Precipitation Process. <i>Biomacromolecules</i> , <b>2016</b> , 17, 841-51	6.9	50
279	Piezoelectric Properties of PZT-Based Ceramic with Highly Aligned Pores. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 1912-1915	3.8	50
278	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> , <b>2004</b> , 83, 1542-1544	3.8	50
277	Measurement of piezoelectric coefficients of lead zirconate titanate thin films by strain-monitoring pneumatic loading method. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 4606-4608	3.4	50
276	Compressive strength and processing of camphene-based freeze cast calcium phosphate scaffolds with aligned pores. <i>Materials Letters</i> , <b>2009</b> , 63, 1548-1550	3.3	49
275	Blend fibers of chitosan/garose by electrospinning. <i>Materials Letters</i> , <b>2009</b> , 63, 2510-2512	3.3	48
274	Porous Hydroxyapatite Scaffolds Coated With Bioactive Apatite/Wollastonite Glass Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 2703-2708	3.8	48
273	Low-Temperature Sintering and Piezoelectric Properties of $0.6\text{Pb}(\text{Zr}_{0.47}\text{Ti}_{0.53})\text{O}_3/0.4\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 87, 1238-1243	3.8	48
272	Oxidation and Strength Retention of Monolithic $\text{Si}_3\text{N}_4$ and Nanocomposite $\text{Si}_3\text{N}_4\text{-SiC}$ with $\text{Yb}_2\text{O}_3$ as a Sintering Aid. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 81, 2130-2134	3.8	48
271	Fabrication and compressive strength of porous hydroxyapatite scaffolds with a functionally graded core/shell structure. <i>Journal of the European Ceramic Society</i> , <b>2011</b> , 31, 13-18	6	47
270	Electro-optic characteristics of (001)-oriented $\text{Ba}_{0.6}\text{Sr}_{0.4}\text{TiO}_3$ thin films. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 1455-1457	3.4	47
269	Novel strategy for mechanically tunable and bioactive metal implants. <i>Biomaterials</i> , <b>2015</b> , 37, 49-61	15.6	46

268	Strong and biocompatible poly(lactic acid) membrane enhanced by Ti3C2Tx (MXene) nanosheets for Guided bone regeneration. <i>Materials Letters</i> , <b>2018</b> , 229, 114-117	3.3	46
267	Fabrication of strong, bioactive vascular grafts with PCL/collagen and PCL/silica bilayers for small-diameter vascular applications. <i>Materials and Design</i> , <b>2019</b> , 181, 108079	8.1	46
266	Aerosol deposition of silicon-substituted hydroxyapatite coatings for biomedical applications. <i>Thin Solid Films</i> , <b>2010</b> , 518, 2194-2199	2.2	46
265	Fabrication of a Porous Bioactive Glass/Ceramic Using Room-Temperature Freeze Casting. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 2649-2653	3.8	46
264	Dense Nanostructured Hydroxyapatite Coating on Titanium by Aerosol Deposition. <i>Journal of the American Ceramic Society</i> , <b>2009</b> , 92, 683-687	3.8	45
263	Silica xerogel-chitosan nano-hybrids for use as drug eluting bone replacement. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2010</b> , 21, 207-14	4.5	45
262	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> , <b>2004</b> , 71, 66-76		45
261	Sol-gel-modified titanium with hydroxyapatite thin films and effect on osteoblast-like cell responses. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2005</b> , 74, 294-305	5.4	45
260	Highly porous titanium (Ti) scaffolds with bioactive microporous hydroxyapatite/TiO2 hybrid coating layer. <i>Materials Letters</i> , <b>2009</b> , 63, 1995-1998	3.3	44
259	Enhanced performance of fluorine substituted hydroxyapatite composites for hard tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2003</b> , 14, 899-904	4.5	44
258	Dissolution control and cellular responses of calcium phosphate coatings on zirconia porous scaffold. <i>Journal of Biomedical Materials Research Part B</i> , <b>2004</b> , 68, 522-30		43
257	Effect of calcinations of starting powder on mechanical properties of hydroxyapatite-alumina bioceramic composite. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2002</b> , 13, 307-10	4.5	43
256	Sol-gel derived nanoscale bioactive glass (NBG) particles reinforced poly(L-lactide) composites for bone tissue engineering. <i>Materials Science and Engineering C</i> , <b>2013</b> , 33, 1102-8	8.3	42
255	In situ Fabrication of a Dense/Porous Bi-layered Ceramic Composite using Freeze Casting of a Ceramic/Amphiphilic Slurry. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 763-766	3.8	42
254	Effect of lead zinc niobate addition on sintering behavior and piezoelectric properties of lead zirconate titanate ceramic. <i>Journal of Materials Research</i> , <b>2004</b> , 19, 2553-2556	2.5	42
253	Piezoelectric and ferroelectric properties of 1- $\mu$ m-thick lead zirconate titanate film fabricated by a double-spin-coating process. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 2322-2324	3.4	42
252	Bone formation on the apatite-coated zirconia porous scaffolds within a rabbit calvarial defect. <i>Journal of Biomaterials Applications</i> , <b>2008</b> , 22, 485-504	2.9	41
251	Cytocompatibility of TiAlC, TiSiC, and TiAlN: Tests and First-Principles Calculations. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 2293-2301	5.5	40

250	Fabrication of a Highly Porous Bioactive Glass/Ceramic Scaffold with a High Surface Area and Strength. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 391-394	3.8	40
249	Effect of lanthanum on the piezoelectric properties of lead zirconate titanate/lead zinc niobate ceramics. <i>Journal of Materials Research</i> , <b>2003</b> , 18, 1765-1770	2.5	40
248	Production and bio-corrosion resistance of porous magnesium with hydroxyapatite coating for biomedical applications. <i>Materials Letters</i> , <b>2013</b> , 108, 122-124	3.3	39
247	Bioactive glass microspheres as reinforcement for improving the mechanical properties and biological performance of poly( $\epsilon$ -caprolactone) polymer for bone tissue regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2012</b> , 100, 967-75	3.5	39
246	Microstructural Evolution of Transparent PLZT Ceramics Sintered in Air and Oxygen Atmospheres. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 84, 1465-1469	3.8	38
245	Biomimetic porous Mg with tunable mechanical properties and biodegradation rates for bone regeneration. <i>Acta Biomaterialia</i> , <b>2019</b> , 84, 453-467	10.8	38
244	Porous alumina ceramic scaffolds with biomimetic macro/micro-porous structure using three-dimensional (3-D) ceramic/camphene-based extrusion. <i>Ceramics International</i> , <b>2015</b> , 41, 12371-12377	5.1	37
243	Reaction sintering and mechanical properties of B <sub>4</sub> C with addition of ZrO <sub>2</sub> . <i>Journal of Materials Research</i> , <b>2000</b> , 15, 2431-2436	2.5	37
242	Formation and characterization of hydroxyapatite coating layer on Ti-based metal implant by electron-beam deposition. <i>Journal of Materials Research</i> , <b>1999</b> , 14, 2980-2985	2.5	37
241	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> , <b>2014</b> , 102, 913-21	3.5	36
240	Enhancing biocompatibility and corrosion resistance of Mg implants via surface treatments. <i>Journal of Biomaterials Applications</i> , <b>2012</b> , 27, 469-76	2.9	36
239	Effects of Residual Stress on the Electrical Properties of PZT Films. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 1077-1080	3.8	36
238	Fabrication of Macrochannelled-Hydroxyapatite Bioceramic by a Coextrusion Process. <i>Journal of the American Ceramic Society</i> , <b>2002</b> , 85, 2578-2580	3.8	36
237	Preparation and Improvement in the Electrical Properties of Lead-zinc-niobate-Based Ceramics by Thermal Treatments. <i>Journal of Materials Research</i> , <b>2002</b> , 17, 180-185	2.5	36
236	Design and characterization of broadband magnetoelectric sensor. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 094111	2.5	35
235	Reaction Sintering and Mechanical Properties of Hydroxyapatite/Zirconia Composites with Calcium Fluoride Additions. <i>Journal of the American Ceramic Society</i> , <b>2002</b> , 85, 1634-1636	3.8	35
234	Oxidation Behavior and Flexural Strength of Aluminum Nitride Exposed to Air at Elevated Temperatures. <i>Journal of the American Ceramic Society</i> , <b>1994</b> , 77, 1037-1041	3.8	35
233	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> , <b>2015</b> , 35, 4623-4627	6	34

232	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> , <b>2014</b> , 102, 793-800	5.4	33
231	Accelerated bony defect healing by chitosan/silica hybrid membrane with localized bone morphogenetic protein-2 delivery. <i>Materials Science and Engineering C</i> , <b>2016</b> , 59, 339-345	8.3	32
230	Hard-tissue-engineered zirconia porous scaffolds with hydroxyapatite sol-gel and slurry coatings. <i>Journal of Biomedical Materials Research Part B</i> , <b>2004</b> , 70, 270-7		32
229	Sol-gel Preparation and Properties of Fluoride-Substituted Hydroxyapatite Powders. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 87, 1939-1944	3.8	32
228	Microsphere of apatite-gelatin nanocomposite as bone regenerative filler. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2005</b> , 16, 1105-9	4.5	32
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101	Piezoelectric ultrasonic motor by co-extrusion process. <i>Sensors and Actuators A: Physical</i> , <b>2005</b> , 121, 515-519	3.9	11
100	Microstructural evolution and mechanical properties of Si <sub>3</sub> N <sub>4</sub> /SiC (nanoparticle)/Si <sub>3</sub> N <sub>4</sub> (whisker) composites. <i>Journal of Materials Research</i> , <b>2000</b> , 15, 364-368	2.5	11
99	The impact of immobilization of BMP-2 on PDO membrane for bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2012</b> , 100, 1488-93	5.4	10
98	Fabrication of ultrahigh porosity ceramics with biaxial pore channels. <i>Materials Letters</i> , <b>2006</b> , 60, 878-882	3.3	10
97	Fabrication and Characterization of Dual-Channeled Zirconia Ceramic Scaffold. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 2021-2026	3.8	10
96	Production of Hydroxyapatite/Bioactive Glass Biomedical Composites by the Hot-Pressing Technique. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 3593-3596	3.8	10
95	Biomimetic Coating of Hydroxyapatite on Glycerol Phosphate-Conjugated Polyurethane via Mineralization. <i>ACS Omega</i> , <b>2017</b> , 2, 981-987	3.9	9
94	Digital Light Processing of Freeze-cast Ceramic Layers for Macroporous Calcium Phosphate Scaffolds with Tailored Microporous Frameworks. <i>Materials</i> , <b>2019</b> , 12,	3.5	9
93	Design and Production of Continuously Gradient Macro/Microporous Calcium Phosphate (CaP) Scaffolds Using Ceramic/Camphene-Based 3D Extrusion. <i>Materials</i> , <b>2017</b> , 10,	3.5	9
92	Coextrusion-Based 3D Plotting of Ceramic Pastes for Porous Calcium Phosphate Scaffolds Comprised of Hollow Filaments. <i>Materials</i> , <b>2018</b> , 11,	3.5	9
91	Dual-Crosslinking of Hyaluronic Acid/Calcium Phosphate Nanocomposite Hydrogels for Enhanced Mechanical Properties and Biological Performance. <i>Macromolecular Materials and Engineering</i> , <b>2017</b> , 302, 1700160	3.9	9
90	Production and evaluation of porous titanium scaffolds with 3-dimensional periodic macrochannels coated with microporous TiO <sub>2</sub> layer. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 135, 897-902	4.4	9
89	Helical-shaped piezoelectric motor using thermoplastic co-extrusion process. <i>Sensors and Actuators A: Physical</i> , <b>2010</b> , 158, 294-299	3.9	9

88	Transverse 1-3 piezoelectric ceramic/polymer composite with multi-layered PZT ceramic blocks. <i>Sensors and Actuators A: Physical</i> , <b>2007</b> , 134, 480-485	3.9	9
87	Effects of Excess PbO and Zr/Ti Ratio on Microstructure and Electrical Properties of PZT Films. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 2923-2927	3.8	9
86	Improvement in Biocompatibility of Fluoridated Apatite with Addition of Resorbable Glass. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 1748-1751	3.8	9
85	Piezoelectric Multilayer Ceramic/Polymer Composite Transducer with 2D Connectivity. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 2509-2513	3.8	9
84	Macrochanneled Tetragonal Zirconia Polycrystals Coated by a Calcium Phosphate Layer. <i>Journal of the American Ceramic Society</i> , <b>2003</b> , 86, 2027-2030	3.8	9
83	Birefringence study of the freezing mechanism of lanthanum-modified lead zirconate titanate relaxor ferroelectrics. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 1176-1179	2.5	9
82	Random exchange-type electro-optic behavior of Pb <sub>0.865</sub> La <sub>0.09</sub> (Zr <sub>0.65</sub> Ti <sub>0.35</sub> )O <sub>3</sub> relaxor ferroelectrics. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 706-708	3.4	9
81	Microstructural evolution and mechanical properties of gas-pressure-sintered Si <sub>3</sub> N <sub>4</sub> with Yb <sub>2</sub> O <sub>3</sub> as a sintering aid. <i>Journal of Materials Research</i> , <b>1999</b> , 14, 1904-1909	2.5	9
80	Enhanced endothelial cell activity induced by incorporation of nano-thick tantalum layer in artificial vascular grafts. <i>Applied Surface Science</i> , <b>2020</b> , 508, 144801	6.7	9
79	Digital light processing of zirconia prostheses with high strength and translucency for dental applications. <i>Ceramics International</i> , <b>2020</b> , 46, 28211-28218	5.1	9
78	Rapid direct deposition of TiH <sub>2</sub> paste for porous Ti scaffolds with tailored porous structures and mechanical properties. <i>Materials Chemistry and Physics</i> , <b>2016</b> , 176, 104-109	4.4	9
77	Incorporation of Calcium Sulfate Dihydrate into Hydroxyapatite Microspheres To Improve the Release of Bone Morphogenetic Protein-2 and Accelerate Bone Regeneration. <i>ACS Biomaterials Science and Engineering</i> , <b>2018</b> , 4, 846-856	5.5	8
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75	Effect of residual stress on piezoelectric property of Pb(Zr,Ti)O <sub>3</sub> films fabricated by sol-gel process. <i>Journal of Sol-Gel Science and Technology</i> , <b>2007</b> , 42, 305-308	2.3	8
74	Piezoelectric Fibers with Uniform Internal Electrode by Co-Extrusion Process. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 1333-1336	3.8	8
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71	Improving mechanical properties of porous calcium phosphate scaffolds by constructing elongated gyroid structures using digital light processing. <i>Ceramics International</i> , <b>2021</b> , 47, 3252-3258	5.1	8

70	Accelerated biodegradation of iron-based implants via tantalum-implanted surface nanostructures. <i>Bioactive Materials</i> , <b>2022</b> , 9, 239-250	16.7	8
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67	Reinforcement of a Reticulated Porous Ceramic by a Novel Infiltration Technique. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 060427083300080-???	3.8	7
66	Fabrication and compressive strength of macrochannelled tetragonal zirconia polycrystals with calcium phosphate coating layer. <i>Journal of Materials Research</i> , <b>2003</b> , 18, 2009-2012	2.5	7
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56	Tantalum - Poly (L-lactic acid) nerve conduit for peripheral nerve regeneration. <i>Neuroscience Letters</i> , <b>2020</b> , 731, 135049	3.3	5
55	Calcium phosphate ceramics with continuously gradient macrochannels using three-dimensional extrusion of bilayered ceramic-camphene mixture/pure camphene feedrod. <i>Ceramics International</i> , <b>2016</b> , 42, 15603-15609	5.1	5
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53	Production of porous Calcium Phosphate (CaP) ceramics with aligned pores using ceramic/camphene-based co-extrusion. <i>Biomaterials Research</i> , <b>2015</b> , 19, 16	16.8	5

52	Fabrication of highly porous titanium (Ti) scaffolds with two interlaced periodic pores. <i>Materials Letters</i> , <b>2009</b> , 63, 1341-1343	3.3	5
51	Windmill-type ultrasonic micromotor fabricated by thermoplastic green machining process. <i>Sensors and Actuators A: Physical</i> , <b>2007</b> , 134, 519-524	3.9	5
50	Spiral-shaped piezoelectric actuator fabricated using thermoplastic co-extrusion process. <i>Sensors and Actuators A: Physical</i> , <b>2008</b> , 148, 245-249	3.9	5
49	Mechanical Properties of Three-Layered Monolithic Silicon Nitride/Bifibrous Silicon Nitride/Boron Nitride Monolith. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 85, 2840-2842	3.8	5
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47	Mechanical and Biological Performance of Calcium Phosphate Coatings on Porous Bone Scaffold. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 87, 2135-2138	3.8	5
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41	Piezoelectric properties of lead-free (Na <sub>0.5</sub> Bi <sub>0.5</sub> )TiO <sub>3</sub> /(Na <sub>0.5</sub> K <sub>0.5</sub> )NbO <sub>3</sub> BaTiO <sub>3</sub> ceramics. <i>Journal of Materials Research</i> , <b>2008</b> , 23, 115-120	2.5	4
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37	Recombinant osteopontin fragment coating on hydroxyapatite for enhanced osteoblast-like cell responses. <i>Journal of Materials Science</i> , <b>2005</b> , 40, 2891-2895	4.3	4
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35	Characterization of Titanium Surface Modification Strategies for Osseointegration Enhancement. <i>Metals</i> , <b>2021</b> , 11, 618	2.3	4

34	Functionally assembled metal platform as lego-like module system for enhanced mechanical tunability and biomolecules delivery. <i>Materials and Design</i> , <b>2021</b> , 207, 109840	8.1	4
33	Identification and characterization of a novel heparin-binding peptide for promoting osteoblast adhesion and proliferation by screening an Escherichia coli cell surface display peptide library. <i>Journal of Peptide Science</i> , <b>2009</b> , 15, 43-7	2.1	3
32	Electrical properties of highly oriented Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> /Pb(Zr,Ti)O <sub>3</sub> thin films fabricated by the sol-gel method. <i>Journal of Materials Research</i> , <b>2006</b> , 21, 1532-1536	2.5	3
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26	Dual-scale porous biphasic calcium phosphate gyroid scaffolds using ceramic suspensions containing polymer microsphere porogen for digital light processing. <i>Ceramics International</i> , <b>2021</b> , 47, 11285-11293	5.1	3
25	Stable sol-gel hydroxyapatite coating on zirconia dental implant for improved osseointegration. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2021</b> , 32, 81	4.5	3
24	Multilayered PolyurethaneHydroxyapatite Composite for Meniscus Replacements. <i>Macromolecular Materials and Engineering</i> , <b>2019</b> , 304, 1800352	3.9	3
23	UV curingassisted 3D plotting of core-shelled feedrod for macroporous hydroxyapatite scaffolds comprised of microporous hollow filaments. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 6729-6737	6	3
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14	Effects of Heat Treatment in a Wet Hydrogen Atmosphere on the Reliability of Sintered Silicon Carbide. <i>Journal of the American Ceramic Society</i> , <b>1995</b> , 78, 1708-1710	3.8	1
13	Domain Morphology and Field-Induced Phase Transition in 'Two Phase Zone' of PZN-Based Ferroelectrics		1
12	Use of thioglycerol on porous polyurethane as an effective theranostic capping agent for bone tissue engineering. <i>Journal of Biomaterials Applications</i> , <b>2019</b> , 33, 955-966	2.9	1
11	Bifunctional poly (l-lactic acid)/hydrophobic silica nanocomposite layer coated on magnesium stents for enhancing corrosion resistance and endothelial cell responses. <i>Materials Science and Engineering C</i> , <b>2021</b> , 127, 112239	8.3	1
10	Customizable design of multiple-biomolecule delivery platform for enhanced osteogenic responses via Tailored assembly system <i>Bio-Design and Manufacturing</i> , 1	4.7	1
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1	Nano-Sized Hydroxyapatite Coatings on Ti Substrate with TiO <sub>2</sub> Buffer Layer by E-beam Deposition	197-203	