

# Hyoun-Ee Kim

## List of Publications by Year in Descending Order

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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	Accelerated biodegradation of iron-based implants via tantalum-implanted surface nanostructures. <i>Bioactive Materials</i> , <b>2022</b> , 9, 239-250	16.7	8
356	Improved Biocompatibility of Intra-Arterial Poly-L-Lactic Acid Stent by Tantalum Ion Implantation : 3-Month Results in a Swine Model. <i>Journal of Korean Neurosurgical Society</i> , <b>2021</b> , 64, 853-863	2.3	0
355	Characterization of Titanium Surface Modification Strategies for Osseointegration Enhancement. <i>Metals</i> , <b>2021</b> , 11, 618	2.3	4
354	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
353	3D-printed biodegradable composite scaffolds with significantly enhanced mechanical properties via the combination of binder jetting and capillary rise infiltration process. <i>Additive Manufacturing</i> , <b>2021</b> , 41, 101988	6.1	7
352	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
351	Nano-Topographical Control of Ti-Nb-Zr Alloy Surfaces for Enhanced Osteoblastic Response. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	6
350	Novel camphene/photopolymer solution as pore-forming agent for photocuring-assisted additive manufacturing of porous ceramics. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 655-662	6	5
349	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
348	Construction of tantalum/poly(ether imide) coatings on magnesium implants with both corrosion protection and osseointegration properties. <i>Bioactive Materials</i> , <b>2021</b> , 6, 1189-1200	16.7	17
347	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
346	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
345	A combination strategy of functionalized polymer coating with Ta ion implantation for multifunctional and biodegradable vascular stents. <i>Journal of Magnesium and Alloys</i> , <b>2021</b> , 9, 2194-2194	8.8	0
344	UV curing-assisted 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
343	Tantalum - Poly (L-lactic acid) nerve conduit for peripheral nerve regeneration. <i>Neuroscience Letters</i> , <b>2020</b> , 731, 135049	3.3	5
342	Tantalum-coated polylactic acid fibrous membranes for guided bone regeneration. <i>Materials Science and Engineering C</i> , <b>2020</b> , 115, 111112	8.3	15
341	Novel poly( $\epsilon$ -caprolactone) scaffolds comprised of tailored core/shell-structured filaments using 3D plotting technique. <i>Materials Letters</i> , <b>2020</b> , 269, 127659	3.3	2

340	Porous calcium phosphate-collagen composite microspheres for effective growth factor delivery and bone tissue regeneration. <i>Materials Science and Engineering C</i> , <b>2020</b> , 109, 110480	8.3	20
339	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
338	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
337	Polydeoxyribonucleotide-delivering therapeutic hydrogel for diabetic wound healing. <i>Scientific Reports</i> , <b>2020</b> , 10, 16811	4.9	13
336	Enhanced Bioactivity of Micropatterned Hydroxyapatite Embedded Poly(L-lactic) Acid for a Load-Bearing Implant. <i>Polymers</i> , <b>2020</b> , 12,	4.5	3
335	PLLA Membrane with Embedded Hydroxyapatite Patterns for Improved Bioactivity and Efficient Delivery of Growth Factor. <i>Macromolecular Bioscience</i> , <b>2020</b> , 20, e2000136	5.5	3
334	Bioactive and mechanically stable hydroxyapatite patterning for rapid endothelialization of artificial vascular graft. <i>Materials Science and Engineering C</i> , <b>2020</b> , 106, 110287	8.3	5
333	Biodegradable magnesium alloy (WE43) in bone-fixation plate and screw. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2020</b> , 108, 2505-2512	3.5	21
332	Ta ion implanted nanoridge-platform for enhanced vascular responses. <i>Biomaterials</i> , <b>2019</b> , 223, 119461	15.6	16
331	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
330	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> , <b>2019</b> , 30, 100883	6.1	25
329	Photocurable ceramic slurry using solid camphor as novel diluent for conventional digital light processing (DLP) process. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 4358-4365	6	30
328	Reduced fibrous capsule formation at nano-engineered silicone surfaces via tantalum ion implantation. <i>Biomaterials Science</i> , <b>2019</b> , 7, 2907-2919	7.4	26
327	In-vitro blood and vascular compatibility of sirolimus-eluting organic/inorganic hybrid stent coatings. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 179, 405-413	6	14
326	Hyaluronic Acid-Based Hybrid Hydrogel Microspheres with Enhanced Structural Stability and High Injectability. <i>ACS Omega</i> , <b>2019</b> , 4, 13834-13844	3.9	12
325	Preparation of Hyaluronic-Acid-Based Microspherical Particles with Tunable Morphology Using a Spray Method on a Superhydrophobic Surface. <i>Macromolecular Materials and Engineering</i> , <b>2019</b> , 304, 1900100	3.9	1
324	Novel additive manufacturing of photocurable ceramic slurry containing freezing vehicle as porogen for hierarchical porous structure. <i>Ceramics International</i> , <b>2019</b> , 45, 21321-21327	5.1	12
323	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

322	Enhanced biolubrication on biomedical devices using hyaluronic acid-silica nanohybrid hydrogels. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 184, 110503	6	2
321	Enhanced Osseointegration Ability of Poly(lactic acid) via Tantalum Sputtering-Based Plasma Immersion Ion Implantation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 10492-10504	9.5	24
320	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
319	Multilayered Polyurethane-Hydroxyapatite Composite for Meniscus Replacements. <i>Macromolecular Materials and Engineering</i> , <b>2019</b> , 304, 1800352	3.9	3
318	Fluorine-ion-releasing injectable alginate nanocomposite hydrogel for enhanced bioactivity and antibacterial property. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 123, 866-877	7.9	14
317	One-pot synthesis of silane-modified hyaluronic acid hydrogels for effective antibacterial drug delivery via sol-gel stabilization. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 174, 308-315	6	20
316	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
315	Effect of HF/HNO <sub>3</sub> -treatment on the porous structure and cell penetrability of titanium (Ti) scaffold. <i>Materials and Design</i> , <b>2018</b> , 145, 65-73	8.1	13
314	Ultrafast Single-Band Upconversion Luminescence in a Liquid-Quenched Amorphous Matrix. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800008	24	11
313	Zirconia-Polyurethane Aneurysm Clip. <i>World Neurosurgery</i> , <b>2018</b> , 115, 14-23	2.1	1
312	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
311	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
310	Acceleration of the healing process of full-thickness wounds using hydrophilic chitosan-silica hybrid sponge in a porcine model. <i>Journal of Biomaterials Applications</i> , <b>2018</b> , 32, 1011-1023	2.9	17
309	In vitro and in vivo evaluation of polylactic acid-based composite with tricalcium phosphate microsphere for enhanced biodegradability and osseointegration. <i>Journal of Biomaterials Applications</i> , <b>2018</b> , 32, 1360-1370	2.9	12
308	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. <i>Materials Letters</i> , <b>2018</b> , 229, 114-117	3.3	46
307	Strategy for Preparing Mechanically Strong Hyaluronic Acid-Silica Nanohybrid Hydrogels via In Situ Sol-Gel Process. <i>Macromolecular Materials and Engineering</i> , <b>2018</b> , 303, 1800213	3.9	4
306	Hydroxyapatite Microspheres as an Additive to Enhance Radiopacity, Biocompatibility, and Osteoconductivity of Poly(methyl methacrylate) Bone Cement. <i>Materials</i> , <b>2018</b> , 11,	3.5	20
305	Effective Wound Healing by Antibacterial and Bioactive Calcium-Fluoride-Containing Composite Hydrogel Dressings Prepared Using in Situ Precipitation. <i>ACS Biomaterials Science and Engineering</i> , <b>2018</b> , 4, 2380-2389	5.5	23

304	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
303	Chitosan-Based Dressing Materials for Problematic Wound Management. <i>Advances in Experimental Medicine and Biology</i> , <b>2018</b> , 1077, 527-537	3.6	7
302	Porous Calcium Phosphate Ceramic Scaffolds with Tailored Pore Orientations and Mechanical Properties Using Lithography-Based Ceramic 3D Printing Technique. <i>Materials</i> , <b>2018</b> , 11,	3.5	24
301	Facile strategy involving low-temperature chemical cross-linking to enhance the physical and biological properties of hyaluronic acid hydrogel. <i>Carbohydrate Polymers</i> , <b>2018</b> , 202, 545-553	10.3	12
300	The accelerating effect of chitosan-silica hybrid dressing materials on the early phase of wound healing. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2017</b> , 105, 1828-1839	3.5	12
299	Radiological, histological, and hematological evaluation of hydroxyapatite-coated resorbable magnesium alloy screws placed in rabbit tibia. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2017</b> , 105, 1636-1644	3.5	14
298	Biomimetic Coating of Hydroxyapatite on Glycerol Phosphate-Conjugated Polyurethane via Mineralization. <i>ACS Omega</i> , <b>2017</b> , 2, 981-987	3.9	9
297	Polyurethane-silica hybrid foams from a one-step foaming reaction, coupled with a sol-gel process, for enhanced wound healing. <i>Materials Science and Engineering C</i> , <b>2017</b> , 79, 866-874	8.3	25
296	Multiscale porous titanium surfaces via a two-step etching process for improved mechanical and biological performance. <i>Biomedical Materials (Bristol)</i> , <b>2017</b> , 12, 025008	3.5	22
295	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
294	Calcium Phosphate-Collagen Scaffold with Aligned Pore Channels for Enhanced Osteochondral Regeneration. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1700966	10.1	19
293	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
292	Hyaluronic acid-hydroxyapatite nanocomposite hydrogels for enhanced biophysical and biological performance in a dermal matrix. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2017</b> , 105, 3315-3325	5.4	11
291	Innovative micro-textured hydroxyapatite and poly(L-lactic)-acid polymer composite film as a flexible, corrosion resistant, biocompatible, and bioactive coating for Mg implants. <i>Materials Science and Engineering C</i> , <b>2017</b> , 81, 97-103	8.3	21
290	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
289	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
288	Enhancement of osseointegration by direct coating of rhBMP-2 on target-ion induced plasma sputtering treated SLA surface for dental application. <i>Journal of Biomaterials Applications</i> , <b>2017</b> , 31, 807-818	2.9	11
287	The Production of Porous Hydroxyapatite Scaffolds with Graded Porosity by Sequential Freeze-Casting. <i>Materials</i> , <b>2017</b> , 10,	3.5	27

286	Novel Self-Assembly-Induced Gelation for Nanofibrous Collagen/Hydroxyapatite Composite Microspheres. <i>Materials</i> , <b>2017</b> , 10,	3.5	5
285	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
284	Biocompatibility and Biocorrosion of Hydroxyapatite-Coated Magnesium Plate: Animal Experiment. <i>Materials</i> , <b>2017</b> , 10,	3.5	12
283	Multi-scale porous Ti6Al4V scaffolds with enhanced strength and biocompatibility formed via dynamic freeze-casting coupled with micro-arc oxidation. <i>Materials Letters</i> , <b>2016</b> , 185, 21-24	3.3	24
282	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
281	Novel Three-Dimensional Extrusion of Multilayered Ceramic/Camphene Mixture for Gradient Porous Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 395-398	3.8	7
280	Reinforcement of polyetheretherketone polymer with titanium for improved mechanical properties and in vitro biocompatibility. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2016</b> , 104, 141-8	3.5	22
279	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> , <b>2016</b> , 27, 34	4.5	30
278	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
277	Synthesis of nanofibrous gelatin/silica bioglass composite microspheres using emulsion coupled with thermally induced phase separation. <i>Materials Science and Engineering C</i> , <b>2016</b> , 62, 678-85	8.3	12
276	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> , <b>2016</b> , 62, 634-42	8.3	31
275	Synthesis and evaluation of bone morphogenetic protein (BMP)-loaded hydroxyapatite microspheres for enhanced bone regeneration. <i>Ceramics International</i> , <b>2016</b> , 42, 7748-7756	5.1	15
274	Large-scale nanopatterning of metal surfaces by target-ion induced plasma sputtering (TIPS). <i>RSC Advances</i> , <b>2016</b> , 6, 23702-23708	3.7	16
273	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
272	Ultrafine-grained porous titanium and porous titanium/magnesium composites fabricated by space holder-enabled severe plastic deformation. <i>Materials Science and Engineering C</i> , <b>2016</b> , 59, 754-765	8.3	12
271	Effect of lithium content on spinel phase evolution in the composite material Li <sub>x</sub> Ni <sub>0.25</sub> Co <sub>0.10</sub> Mn <sub>0.65</sub> O(3.4 + x) / 2 (0.8 ≤ x ≤ 1.6) for Li-ion batteries. <i>Solid State Ionics</i> , <b>2016</b> , 293, 77-84	3.3	5
270	Long-lasting and bioactive hyaluronic acid-hydroxyapatite composite hydrogels for injectable dermal fillers: Physical properties and in vivo durability. <i>Journal of Biomaterials Applications</i> , <b>2016</b> , 31, 464-74	2.9	14
269	Ti scaffolds with tailored porosities and mechanical properties using porous polymer templates. <i>Materials and Design</i> , <b>2016</b> , 101, 323-331	8.1	13

268	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
267	Poly(ether imide)-silica hybrid coatings for tunable corrosion behavior and improved biocompatibility of magnesium implants. <i>Biomedical Materials (Bristol)</i> , <b>2016</b> , 11, 035003	3.5	23
266	Novel self-assembly-induced 3D plotting for macro/nano-porous collagen scaffolds comprised of nanofibrous collagen filaments. <i>Materials Letters</i> , <b>2015</b> , 143, 265-268	3.3	14
265	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	5.7	37
264	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
263	Novel strategy for mechanically tunable and bioactive metal implants. <i>Biomaterials</i> , <b>2015</b> , 37, 49-61	15.6	46
262	Fabrication of Mechanically Tunable and Bioactive Metal Scaffolds for Biomedical Applications. <i>Journal of Visualized Experiments</i> , <b>2015</b> , e53279	1.6	6
261	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
260	Novel rapid direct deposition of ceramic paste for porous biphasic calcium phosphate (BCP) scaffolds with tightly controlled 3-D macrochannels. <i>Ceramics International</i> , <b>2014</b> , 40, 11079-11084	5.1	16
259	Creation of hierarchical micro/nano-porous TiO <sub>2</sub> surface layer onto Ti implants for improved biocompatibility. <i>Surface and Coatings Technology</i> , <b>2014</b> , 251, 226-231	4.4	26
258	Enhancement of mechanical properties of grade 4 titanium by equal channel angular pressing with billet encapsulation. <i>Materials Letters</i> , <b>2014</b> , 114, 144-147	3.3	20
257	Production of highly porous titanium (Ti) scaffolds by vacuum-assisted foaming of titanium hydride (TiH <sub>2</sub> ) suspension. <i>Materials Letters</i> , <b>2014</b> , 120, 228-231	3.3	19
256	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
255	Three-dimensional Ceramic/Camphene-based Coextrusion for Unidirectionally Macrochanneled Alumina Ceramics with Controlled Porous Walls. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 32-34	3.8	27
254	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
253	Biomechanical evaluation of magnesium-based resorbable metallic screw system in a bilateral sagittal split ramus osteotomy model using three-dimensional finite element analysis. <i>Journal of Oral and Maxillofacial Surgery</i> , <b>2014</b> , 72, 402.e1-13	1.8	12
252	Nonsolvent induced phase separation (NIPS)-based 3D plotting for 3-dimensionally macrochanneled poly(L-lactone) scaffolds with highly porous frameworks. <i>Materials Letters</i> , <b>2014</b> , 122, 348-351	3.3	8
251	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, 429-441	5.4	67

250	Production, mechanical properties and in vitro biocompatibility of highly aligned porous poly( $\epsilon$ -caprolactone) (PCL)/hydroxyapatite (HA) scaffolds. <i>Journal of Porous Materials</i> , <b>2013</b> , 20, 701-708	2.4	17
249	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
248	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
247	Production of highly porous triphasic calcium phosphate scaffolds with excellent in vitro bioactivity using vacuum-assisted foaming of ceramic suspension (VFC) technique. <i>Ceramics International</i> , <b>2013</b> , 39, 5879-5885	5.1	30
246	Osteoconductive hydroxyapatite coated PEEK for spinal fusion surgery. <i>Applied Surface Science</i> , <b>2013</b> , 283, 6-11	6.7	79
245	Utility of tantalum (Ta) coating to improve surface hardness in vitro bioactivity and biocompatibility of CoCr. <i>Thin Solid Films</i> , <b>2013</b> , 536, 269-274	2.2	30
244	Sol-gel derived nanoscale bioactive glass (NBG) particles reinforced poly( $\epsilon$ -caprolactone) composites for bone tissue engineering. <i>Materials Science and Engineering C</i> , <b>2013</b> , 33, 1102-8	8.3	42
243	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
242	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
241	Synthesis and Characterization of Drug-Loaded Poly( $\epsilon$ -caprolactone)/Silica Hybrid Nanofibrous Scaffolds. <i>Journal of Nanomaterials</i> , <b>2013</b> , 2013, 1-12	3.2	7
240	Effect of fluorine addition on the biological performance of hydroxyapatite coatings on Ti by aerosol deposition. <i>Journal of Biomaterials Applications</i> , <b>2013</b> , 27, 587-94	2.9	25
239	Use of a poly(ether imide) coating to improve corrosion resistance and biocompatibility of magnesium (Mg) implant for orthopedic applications. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2013</b> , 101, 1708-15	5.4	23
238	Hydroxyapatite/poly(epsilon-caprolactone) double coating on magnesium for enhanced corrosion resistance and coating flexibility. <i>Journal of Biomaterials Applications</i> , <b>2013</b> , 28, 617-25	2.9	19
237	Novel Ceramic/Camphene-Based Co-Extrusion for Highly Aligned Porous Alumina Ceramic Tubes. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 1803-1806	3.8	15
236	Hollow porous poly( $\epsilon$ -caprolactone) microspheres by emulsion solvent extraction. <i>Materials Letters</i> , <b>2012</b> , 72, 157-159	3.3	15
235	Porous alumina ceramics with highly aligned pores by heat-treating extruded alumina/camphene body at temperature near its solidification point. <i>Journal of the European Ceramic Society</i> , <b>2012</b> , 32, 1029-1034	6.0	24
234	Collagen-silica xerogel nanohybrid membrane for guided bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2012</b> , 100, 841-7	5.4	18
233	Fibrous membrane of nano-hybrid poly-L-lactic acid/silica xerogel for guided bone regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2012</b> , 100, 321-30	3.5	26



232	Use of Glycerol as a Cryoprotectant in Vacuum-Assisted Foaming of Ceramic Suspension Technique for Improving Compressive Strength of Porous Biphasic Calcium Phosphate Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 3360-3362	3.8	11
231	Creation of nanoporous tantalum (Ta)-incorporated titanium (Ti) surface onto Ti implants by sputtering of Ta in Ar under extremely high negative substrate biases. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 24798		14
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3	Domain Morphology and Field-Induced Phase Transition in 'Two Phase Zone' of PZN-Based Ferroelectrics		1
2	Nano-Sized Hydroxyapatite Coatings on Ti Substrate with TiO <sub>2</sub> Buffer Layer by E-beam Deposition		197-203
1	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