

Young-Hag Koh

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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.

146 papers	5,143 citations	42 h-index	63 g-index
150 ext. papers	5,606 ext. citations	4.7 avg, IF	5.59 L-index

#	Paper	IF	Citations
146	Membrane of hybrid chitosan-silica xerogel for guided bone regeneration. <i>Biomaterials</i> , 2009 , 30, 743-50	15.6	212
145	The electron beam deposition of titanium on polyetheretherketone (PEEK) and the resulting enhanced biological properties. <i>Biomaterials</i> , 2010 , 31, 3465-70	15.6	185
144	Aligned porous alumina ceramics with high compressive strengths for bone tissue engineering. <i>Scripta Materialia</i> , 2008 , 58, 537-540	5.6	157
143	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> , 2009 , 91, 213-20	3.5	133
142	Highly Aligned Porous Silicon Carbide Ceramics by Freezing Polycarbosilane/Camphene Solution. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 1753-1759	3.8	133
141	Densification and Mechanical Properties of B4C with Al2O3 as a Sintering Aid. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 2863-2865	3.8	123
140	Highly porous hydroxyapatite bioceramics with interconnected pore channels using camphene-based freeze casting. <i>Materials Letters</i> , 2007 , 61, 2270-2273	3.3	111
139	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	3.8	99
138	Nanostructured poly(epsilon-caprolactone)-silica xerogel fibrous membrane for guided bone regeneration. <i>Acta Biomaterialia</i> , 2010 , 6, 3557-65	10.8	97
137	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	3.8	97
136	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		93
135	Freezing Dilute Ceramic/Camphene Slurry for Ultra-High Porosity Ceramics with Completely Interconnected Pore Networks. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 3089-3093	3.8	85
134	Densification and Mechanical Properties of Titanium Diboride with Silicon Nitride as a Sintering Aid. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 3037-3042	3.8	83
133	Oxidation Behavior of Titanium Boride at Elevated Temperatures. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 239-241	3.8	83
132	A bioactive coating of a silica xerogel/chitosan hybrid on titanium by a room temperature sol-gel process. <i>Acta Biomaterialia</i> , 2010 , 6, 302-7	10.8	79
131	Reverse freeze casting: a new method for fabricating highly porous titanium scaffolds with aligned large pores. <i>Acta Biomaterialia</i> , 2012 , 8, 2401-10	10.8	75
130	Calcium phosphates and glass composite coatings on zirconia for enhanced biocompatibility. <i>Biomaterials</i> , 2004 , 25, 4203-13	15.6	74

129	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> , 2007 , 90, 2807-2813	3.8	71
128	Hydroxyapatite coating on magnesium with MgF ₂ Interlayer for enhanced corrosion resistance and biocompatibility. <i>Journal of Materials Science: Materials in Medicine</i> , 2011 , 22, 2437-47	4.5	70
127	Improved compressive strength of reticulated porous zirconia using carbon coated polymeric sponge as novel template. <i>Materials Letters</i> , 2006 , 60, 2507-2510	3.3	70
126	Dynamic freeze casting for the production of porous titanium (Ti) scaffolds. <i>Materials Science and Engineering C</i> , 2013 , 33, 59-63	8.3	68
125	Porous titanium (Ti) scaffolds by freezing TiH ₂ /camphene slurries. <i>Materials Letters</i> , 2008 , 62, 4506-4508	3.3	68
124	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> , 2014 , 102, 429-437	5.4	67
123	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, 773-82	4.5	65
122	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	3.8	62
121	Pressureless Sintering and Mechanical and Biological Properties of Fluor-hydroxyapatite Composites with Zirconia. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 2019-2026	3.8	62
120	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, 2808-15	8.3	55
119	Fabrication of porous titanium scaffolds with high compressive strength using camphene-based freeze casting. <i>Materials Letters</i> , 2009 , 63, 1502-1504	3.3	55
118	Highly porous hydroxyapatite scaffolds with elongated pores using stretched polymeric sponges as novel template. <i>Materials Letters</i> , 2009 , 63, 1702-1704	3.3	55
117	Fabrication of titanium scaffolds with porosity and pore size gradients by sequential freeze casting. <i>Materials Letters</i> , 2009 , 63, 1545-1547	3.3	53
116	Production of Poly(εCaprolactone)/Hydroxyapatite Composite Scaffolds with a Tailored Macro/Micro-Porous Structure, High Mechanical Properties, and Excellent Bioactivity. <i>Materials</i> , 2017 , 10,	3.5	52
115	Strong and Biostable Hyaluronic Acid-Calcium Phosphate Nanocomposite Hydrogel via in Situ Precipitation Process. <i>Biomacromolecules</i> , 2016 , 17, 841-51	6.9	50
114	Piezoelectric Properties of PZT-Based Ceramic with Highly Aligned Pores. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 1912-1915	3.8	50
113	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> , 2004 , 83, 1542-1544	3.8	50
112	Compressive strength and processing of camphene-based freeze cast calcium phosphate scaffolds with aligned pores. <i>Materials Letters</i> , 2009 , 63, 1548-1550	3.3	49

111	Porous Hydroxyapatite Scaffolds Coated With Bioactive Apatite/Wollastonite Glass Ceramics. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 2703-2708	3.8	48
110	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	6	47
109	Novel strategy for mechanically tunable and bioactive metal implants. <i>Biomaterials</i> , 2015 , 37, 49-61	15.6	46
108	Fabrication of a Porous Bioactive Glass Ceramic Using Room-Temperature Freeze Casting. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 2649-2653	3.8	46
107	Silica xerogel-chitosan nano-hybrids for use as drug eluting bone replacement. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 207-14	4.5	45
106	Highly porous titanium (Ti) scaffolds with bioactive microporous hydroxyapatite/TiO ₂ hybrid coating layer. <i>Materials Letters</i> , 2009 , 63, 1995-1998	3.3	44
105	Sol-gel derived nanoscale bioactive glass (NBG) particles reinforced poly(ϵ -caprolactone) composites for bone tissue engineering. <i>Materials Science and Engineering C</i> , 2013 , 33, 1102-8	8.3	42
104	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	3.8	42
103	Cytocompatibility of TiAlC, TiSiC, and TiAlN: Tests and First-Principles Calculations. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 2293-2301	5.5	40
102	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	3.8	40
101	Production and bio-corrosion resistance of porous magnesium with hydroxyapatite coating for biomedical applications. <i>Materials Letters</i> , 2013 , 108, 122-124	3.3	39
100	Bioactive glass microspheres as reinforcement for improving the mechanical properties and biological performance of poly(ϵ -caprolactone) polymer for bone tissue regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 967-75	3.5	39
99	Biomimetic porous Mg with tunable mechanical properties and biodegradation rates for bone regeneration. <i>Acta Biomaterialia</i> , 2019 , 84, 453-467	10.8	38
98	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	5.1	37
97	Reaction sintering and mechanical properties of B ₄ C with addition of ZrO ₂ . <i>Journal of Materials Research</i> , 2000 , 15, 2431-2436	2.5	37
96	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, 913-21	3.5	36
95	Fabrication of Macrochannelled-Hydroxyapatite Bioceramic by a Coextrusion Process. <i>Journal of the American Ceramic Society</i> , 2002 , 85, 2578-2580	3.8	36
94	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	3.8	35

93	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	6	34
92	Polyetheretherketone/magnesium composite selectively coated with hydroxyapatite for enhanced in vitro bio-corrosion resistance and biocompatibility. <i>Materials Letters</i> , 2014 , 116, 20-22	3.3	33
91	Creation of nanoporous TiO ₂ 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	5.4	33
90	Sol-Gel Preparation and Properties of Fluoride-Substituted Hydroxyapatite Powders. <i>Journal of the American Ceramic Society</i> , 2005 , 87, 1939-1944	3.8	32
89	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	6	30
88	Synthesis of aligned porous poly(ε-caprolactone) (PCL)/hydroxyapatite (HA) composite microspheres. <i>Materials Science and Engineering C</i> , 2013 , 33, 2266-72	8.3	30
87	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> , 2013 , 39, 5879-5885	5.1	30
86	In-situ fabrication of porous hydroxyapatite (HA) scaffolds with dense shells by freezing HA/camphene slurry. <i>Materials Letters</i> , 2008 , 62, 1700-1703	3.3	30
85	Fabrication of poly(ε-caprolactone)/hydroxyapatite scaffold using rapid direct deposition. <i>Materials Letters</i> , 2006 , 60, 1184-1187	3.3	30
84	Hydroxyapatite (HA) bone scaffolds with controlled macrochannel pores. <i>Journal of Materials Science: Materials in Medicine</i> , 2006 , 17, 517-21	4.5	30
83	Improvement of compressive strength of porous hydroxyapatite scaffolds by adding polystyrene to camphene-based slurries. <i>Materials Letters</i> , 2009 , 63, 955-958	3.3	29
82	Three-dimensional Ceramic/Camphene-based Coextrusion for Unidirectionally Macrochanneled Alumina Ceramics with Controlled Porous Walls. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 32-34	3.8	27
81	Creation of hierarchical micro/nano-porous TiO ₂ surface layer onto Ti implants for improved biocompatibility. <i>Surface and Coatings Technology</i> , 2014 , 251, 226-231	4.4	26
80	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> , 2012 , 100, 321-30	3.5	26
79	Synthesis and Bioactivity of Sol-Gel Derived Porous, Bioactive Glass Microspheres Using Chitosan as Novel Biomolecular Template. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 30-33	3.8	26
78	Assembling unidirectionally frozen alumina/camphene bodies for aligned porous alumina ceramics with larger dimensions. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 415-419	6	26
77	Porous gelatin-siloxane hybrid scaffolds with biomimetic structure and properties for bone tissue regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014 , 102, 1528-36	3.5	25
76	Improving the strength and biocompatibility of porous titanium scaffolds by creating elongated pores coated with a bioactive, nanoporous TiO ₂ layer. <i>Materials Letters</i> , 2010 , 64, 2526-2529	3.3	25

75	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> , 2012 , 32, 1029-1034 ²⁴	6	24
74	Porous Calcium Phosphate Ceramic Scaffolds with Tailored Pore Orientations and Mechanical Properties Using Lithography-Based Ceramic 3D Printing Technique. <i>Materials</i> , 2018 , 11,	3.5	24
73	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> , 2013 , 101, 1708-15	5.4	23
72	Macroporous Alumina Ceramics with Aligned Microporous Walls by Unidirectionally Freezing Foamed Aqueous Ceramic Suspensions. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 1580	3.8	23
71	Fabrication and Characterization of Thin and Dense Electrolyte-Coated Anode Tube Using Thermoplastic Coextrusion. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 1713-1716	3.8	23
70	Poly(ether imide)-silica hybrid coatings for tunable corrosion behavior and improved biocompatibility of magnesium implants. <i>Biomedical Materials (Bristol)</i> , 2016 , 11, 035003	3.5	23
69	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> , 2016 , 104, 141-8	3.5	22
68	Effects of acidic catalysts on the microstructure and biological property of sol-gel bioactive glass microspheres. <i>Journal of Sol-Gel Science and Technology</i> , 2011 , 58, 656-663	2.3	22
67	Synthesis of nanoporous calcium phosphate spheres using poly(acrylic acid) as a structuring unit. <i>Materials Letters</i> , 2009 , 63, 1207-1209	3.3	20
66	Production of highly porous titanium (Ti) scaffolds by vacuum-assisted foaming of titanium hydride (TiH ₂) suspension. <i>Materials Letters</i> , 2014 , 120, 228-231	3.3	19
65	Highly Porous Biphasic Calcium Phosphate (BCP) Ceramics with Large Interconnected Pores by Freezing Vigorously Foamed BCP Suspensions under Reduced Pressure. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 4154-4156	3.8	19
64	Production of highly aligned porous alumina ceramics by extruding frozen alumina/camphene body. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 1945-1950	6	19
63	Macrochanneled poly (epsilon-caprolactone)/ hydroxyapatite scaffold by combination of bi-axial machining and lamination. <i>Journal of Materials Science: Materials in Medicine</i> , 2006 , 17, 773-8	4.5	19
62	Collagen-silica xerogel nanohybrid membrane for guided bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 841-7	5.4	18
61	Production, mechanical properties and in vitro biocompatibility of highly aligned porous poly(E-caprolactone) (PCL)/hydroxyapatite (HA) scaffolds. <i>Journal of Porous Materials</i> , 2013 , 20, 701-708 ^{2.4}	2.4	17
60	Large-scale nanopatterning of metal surfaces by target-ion induced plasma sputtering (TIPS). <i>RSC Advances</i> , 2016 , 6, 23702-23708	3.7	16
59	Novel rapid direct deposition of ceramic paste for porous biphasic calcium phosphate (BCP) scaffolds with tightly controlled 3-D macrochannels. <i>Ceramics International</i> , 2014 , 40, 11079-11084	5.1	16
58	Silica-chitosan hybrid coating on Ti for controlled release of growth factors. <i>Journal of Materials Science: Materials in Medicine</i> , 2011 , 22, 2757-64	4.5	16

57	Production and characterization of calcium phosphate (CaP) whisker-reinforced poly(ϵ -caprolactone) composites as bone regenerative. <i>Materials Science and Engineering C</i> , 2010 , 30, 1280-1284	8.3	16
56	Processing and Performance of Hydroxyapatite/Fluorapatite Double Layer Coating on Zirconia by the Powder Slurry Method. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 2466-2472	3.8	16
55	Improved Low-Temperature Environmental Degradation of Yttria-Stabilized Tetragonal Zirconia Polycrystals by Surface Encapsulation. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 1456-1458	3.8	16
54	Strengthening and Prevention of Oxidation of Aluminum Nitride by Formation of a Silica Layer on the Surface. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 306-310	3.8	16
53	Improvement in oxidation resistance of TiB ₂ by formation of protective SiO ₂ layer on surface. <i>Journal of Materials Research</i> , 2001 , 16, 132-137	2.5	16
52	Synthesis and evaluation of bone morphogenetic protein (BMP)-loaded hydroxyapatite microspheres for enhanced bone regeneration. <i>Ceramics International</i> , 2016 , 42, 7748-7756	5.1	15
51	Novel Ceramic/Camphene-Based Co-Extrusion for Highly Aligned Porous Alumina Ceramic Tubes. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 1803-1806	3.8	15
50	Novel self-assembly-induced 3D plotting for macro/nano-porous collagen scaffolds comprised of nanofibrous collagen filaments. <i>Materials Letters</i> , 2015 , 143, 265-268	3.3	14
49	Highly porous gelatin/silica hybrid scaffolds with textured surfaces using new direct foaming/freezing technique. <i>Materials Chemistry and Physics</i> , 2014 , 145, 397-402	4.4	14
48	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> , 2012 , 22, 24798		14
47	Improving the surface hardness of zirconia toughened alumina (ZTA) composites by surface treatment with a boehmite sol. <i>Ceramics International</i> , 2012 , 38, 2889-2892	5.1	14
46	Production of porous poly(ϵ -caprolactone)/silica hybrid membranes with patterned surface pores. <i>Materials Letters</i> , 2011 , 65, 1903-1906	3.3	14
45	Direct coating of bioactive sol/gel derived silica on poly(ϵ -caprolactone) nanofibrous scaffold using co-electrospinning. <i>Materials Letters</i> , 2010 , 64, 1539-1542	3.3	13
44	Multilayer Actuator Composed of PZNBZT and PZNBZT/Ag Fabricated by Co-Extrusion Process. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 1625-1627	3.8	13
43	Oxidation Behavior and Effect of Oxidation on Strength of Si ₃ N ₄ /SiC Nanocomposites. <i>Journal of Materials Research</i> , 2000 , 15, 1478-1482	2.5	13
42	Ti scaffolds with tailored porosities and mechanical properties using porous polymer templates. <i>Materials and Design</i> , 2016 , 101, 323-331	8.1	13
41	Synthesis of nanofibrous gelatin/silica bioglass composite microspheres using emulsion coupled with thermally induced phase separation. <i>Materials Science and Engineering C</i> , 2016 , 62, 678-85	8.3	12
40	Novel additive manufacturing of photocurable ceramic slurry containing freezing vehicle as porogen for hierarchical porous structure. <i>Ceramics International</i> , 2019 , 45, 21321-21327	5.1	12

39	Production of porous calcium phosphate (CaP) ceramics with highly elongated pores using carbon-coated polymeric templates. <i>Ceramics International</i> , 2012 , 38, 93-97	5.1	12
38	Mechanical Properties of Si ₃ N ₄ -SiC Three-Layer Composite Materials. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 2725-2728	3.8	12
37	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> , 2012 , 95, 3360-3362	3.8	11
36	In Situ Synthesis of Porous Silicon Carbide (SiC) Ceramics Decorated with SiC Nanowires. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 070918221104008-???	3.8	11
35	Microstructural evolution and mechanical properties of Si ₃ N ₄ /SiC (nanoparticle)/Si ₃ N ₄ (whisker) composites. <i>Journal of Materials Research</i> , 2000 , 15, 364-368	2.5	11
34	Fabrication of ultrahigh porosity ceramics with biaxial pore channels. <i>Materials Letters</i> , 2006 , 60, 878-882	3.3	10
33	Fabrication and Characterization of Dual-Channeled Zirconia Ceramic Scaffold. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 2021-2026	3.8	10
32	Digital Light Processing of Freeze-cast Ceramic Layers for Macroporous Calcium Phosphate Scaffolds with Tailored Microporous Frameworks. <i>Materials</i> , 2019 , 12,	3.5	9
31	Design and Production of Continuously Gradient Macro/Microporous Calcium Phosphate (CaP) Scaffolds Using Ceramic/Camphene-Based 3D Extrusion. <i>Materials</i> , 2017 , 10,	3.5	9
30	Coextrusion-Based 3D Plotting of Ceramic Pastes for Porous Calcium Phosphate Scaffolds Comprised of Hollow Filaments. <i>Materials</i> , 2018 , 11,	3.5	9
29	Production and evaluation of porous titanium scaffolds with 3-dimensional periodic macrochannels coated with microporous TiO ₂ layer. <i>Materials Chemistry and Physics</i> , 2012 , 135, 897-902	4.4	9
28	Piezoelectric Multilayer Ceramic/Polymer Composite Transducer with 2D Connectivity. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 2509-2513	3.8	9
27	Macrochanneled Tetragonal Zirconia Polycrystals Coated by a Calcium Phosphate Layer. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 2027-2030	3.8	9
26	Microstructural evolution and mechanical properties of gas-pressure-sintered Si ₃ N ₄ with Yb ₂ O ₃ as a sintering aid. <i>Journal of Materials Research</i> , 1999 , 14, 1904-1909	2.5	9
25	Digital light processing of zirconia prostheses with high strength and translucency for dental applications. <i>Ceramics International</i> , 2020 , 46, 28211-28218	5.1	9
24	Innovative in situ photocuring-assisted 3D plotting technique for complex-shaped ceramic architectures with high shape retention. <i>Ceramics International</i> , 2019 , 45, 8440-8447	5.1	8
23	Enhanced Mechanical Strength, Flexibility, and Shape-Restoring Rate of a Drug-Eluting Shape-Memory Polymer by Incorporation of Supramolecular Cross-Linkers. <i>ACS Macro Letters</i> , 2020 , 9, 389-395	6.6	8
22	Nonsolvent induced phase separation (NIPS)-based 3D plotting for 3-dimensionally macrochanneled poly(ϵ -caprolactone) scaffolds with highly porous frameworks. <i>Materials Letters</i> , 2014 , 122, 348-351	3.3	8

21	Novel hydroxyapatite (HA) dual-scaffold with ultra-high porosity, high surface area, and compressive strength. <i>Journal of Materials Science: Materials in Medicine</i> , 2007 , 18, 1071-7	4.5	8
20	Thermoplastic Green Machining for the Fabrication of a Piezoelectric Ceramic/Polymer Composite with 2-2 Connectivity. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 1060-1063	3.8	8
19	Improving mechanical properties of porous calcium phosphate scaffolds by constructing elongated gyroid structures using digital light processing. <i>Ceramics International</i> , 2021 , 47, 3252-3258	5.1	8
18	Novel Three-Dimensional Extrusion of Multilayered Ceramic/Camphene Mixture for Gradient Porous Ceramics. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 395-398	3.8	7
17	Fabrication and compressive strength of macrochannelled tetragonal zirconia polycrystals with calcium phosphate coating layer. <i>Journal of Materials Research</i> , 2003 , 18, 2009-2012	2.5	7
16	Fabrication of Mechanically Tunable and Bioactive Metal Scaffolds for Biomedical Applications. <i>Journal of Visualized Experiments</i> , 2015 , e53279	1.6	6
15	Photocurable ceramic/monomer feedstocks containing terpene crystals as sublimable porogen for UV curing-assisted 3D plotting. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 3469-3477	6	6
14	Calcium phosphate ceramics with continuously gradient macrochannels using three-dimensional extrusion of bilayered ceramic-camphene mixture/pure camphene feedrod. <i>Ceramics International</i> , 2016 , 42, 15603-15609	5.1	5
13	Novel Self-Assembly-Induced Gelation for Nanofibrous Collagen/Hydroxyapatite Composite Microspheres. <i>Materials</i> , 2017 , 10,	3.5	5
12	Production of porous Calcium Phosphate (CaP) ceramics with aligned pores using ceramic/camphene-based co-extrusion. <i>Biomaterials Research</i> , 2015 , 19, 16	16.8	5
11	Fabrication of highly porous titanium (Ti) scaffolds with two interlaced periodic pores. <i>Materials Letters</i> , 2009 , 63, 1341-1343	3.3	5
10	Mechanical Properties of Three-Layered Monolithic Silicon Nitride/Fibrous Silicon Nitride/Boron Nitride Monolith. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 2840-2842	3.8	5
9	Effect of Oxidation on Mechanical Properties of Fibrous Monolith Si ₃ N ₄ /BN at Elevated Temperatures in Air. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 3123-3125	3.8	5
8	Novel camphene/photopolymer solution as pore-forming agent for photocuring-assisted additive manufacturing of porous ceramics. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 655-662	6	5
7	Fabrication of porous calcium phosphate cements using gelatin as porogen. <i>Journal of the Ceramic Society of Japan</i> , 2010 , 118, 34-36	1	4
6	Novel fabrication of a polymer scaffold with a dense bioactive ceramic coating layer. <i>Journal of Materials Science: Materials in Medicine</i> , 2007 , 18, 1537-42	4.5	3
5	Dual-scale porous biphasic calcium phosphate gyroid scaffolds using ceramic suspensions containing polymer microsphere porogen for digital light processing. <i>Ceramics International</i> , 2021 , 47, 11285-11293	5.1	3
4	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> , 2021 , 41, 6729-6737	6	3

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| 3 | Novel poly(ϵ -caprolactone) scaffolds comprised of tailored core/shell-structured filaments using 3D plotting technique. <i>Materials Letters</i> , 2020 , 269, 127659 | 3.3 | 2 |
| 2 | Improvement of oxidation resistance of Si ₃ N ₄ by heat treatment in a wet H ₂ atmosphere. <i>Journal of Materials Research</i> , 2002 , 17, 2321-2326 | 2.5 | |
| 1 | Dual-Scale Porosity Alumina Structures Using Ceramic/Camphene Suspensions Containing Polymer Microspheres. <i>Materials</i> , 2022 , 15, 3875 | 3.5 | |