

Huinan Liu

List of Publications by Year in descending order

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123
papers

4,635
citations

87843

38
h-index

106281

65
g-index

126
all docs

126
docs citations

126
times ranked

5856
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanomedicine for implants: A review of studies and necessary experimental tools. <i>Biomaterials</i> , 2007, 28, 354-369.	5.7	513
2	An in vitro evaluation of the Ca/P ratio for the cytocompatibility of nano-to-micron particulate calcium phosphates for bone regeneration. <i>Acta Biomaterialia</i> , 2008, 4, 1472-1479.	4.1	206
3	Mimicking the nanofeatures of bone increases bone-forming cell adhesion and proliferation. <i>Nanotechnology</i> , 2005, 16, 1828-1835.	1.3	194
4	Antimicrobial Activities and Mechanisms of Magnesium Oxide Nanoparticles (nMgO) against Pathogenic Bacteria, Yeasts, and Biofilms. <i>Scientific Reports</i> , 2018, 8, 16260.	1.6	188
5	Less harmful acidic degradation of poly(lactic-co-glycolic acid) bone tissue engineering scaffolds through titania nanoparticle addition. <i>International Journal of Nanomedicine</i> , 2006, 1, 541-545.	3.3	179
6	Label-Free SERS Selective Detection of Dopamine and Serotonin Using Graphene-Au Nanopyramid Heterostructure. <i>Analytical Chemistry</i> , 2015, 87, 10255-10261.	3.2	146
7	Degradation and antibacterial properties of magnesium alloys in artificial urine for potential resorbable ureteral stent applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 781-792.	2.1	128
8	Magnetic Nanocomposite Hydrogel for Potential Cartilage Tissue Engineering: Synthesis, Characterization, and Cytocompatibility with Bone Marrow Derived Mesenchymal Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 20987-20998.	4.0	123
9	Increased osteoblast functions among nanophase titania/poly(lactide-co-glycolide) composites of the highest nanometer surface roughness. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 78A, 798-807.	2.1	100
10	Development and evaluation of a magnesium-zinc-strontium alloy for biomedical applications Alloy processing, microstructure, mechanical properties, and biodegradation. <i>Materials Science and Engineering C</i> , 2013, 33, 3661-3669.	3.8	91
11	Electrodeposition of hydroxyapatite coating on Mg-4.0Zn-1.0Ca-0.6Zr alloy and in vitro evaluation of degradation, hemolysis, and cytotoxicity. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 999-1015.	2.1	90
12	An in vivo study on the metabolism and osteogenic activity of bioabsorbable Mg-1Sr alloy. <i>Acta Biomaterialia</i> , 2016, 29, 455-467.	4.1	85
13	Mechanical properties of dispersed ceramic nanoparticles in polymer composites for orthopedic applications. <i>International Journal of Nanomedicine</i> , 2010, 5, 299.	3.3	84
14	Nanomaterials for treating cardiovascular diseases: A review. <i>Bioactive Materials</i> , 2017, 2, 185-198.	8.6	82
15	Cytocompatibility and early inflammatory response of human endothelial cells in direct culture with Mg-Zn-Sr alloys. <i>Acta Biomaterialia</i> , 2017, 48, 499-520.	4.1	74
16	The effects of nanostructured hydroxyapatite coating on the biodegradation and cytocompatibility of magnesium implants. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 2340-2354.	2.1	72
17	Investigation of magnesium-zinc-calcium alloys and bone marrow derived mesenchymal stem cell response in direct culture. <i>Acta Biomaterialia</i> , 2015, 12, 298-321.	4.1	71
18	Nanomaterials enhance osteogenic differentiation of human mesenchymal stem cells similar to a short peptide of BMP-7. <i>International Journal of Nanomedicine</i> , 2011, 6, 2769.	3.3	66

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19	<i>In vitro</i> evaluation of the surface effects on magnesium-yttrium alloy degradation and mesenchymal stem cell adhesion. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 477-485.	2.1	66
20	Concentration-dependent behaviors of bone marrow derived mesenchymal stem cells and infectious bacteria toward magnesium oxide nanoparticles. <i>Acta Biomaterialia</i> , 2016, 35, 341-356.	4.1	63
21	A Study on Factors Affecting the Degradation of Magnesium and a Magnesium-Yttrium Alloy for Biomedical Applications. <i>PLoS ONE</i> , 2013, 8, e65603.	1.1	61
22	Increased osteoblast adhesion on nanoparticulate calcium phosphates with higher Ca/P ratios. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 85A, 236-241.	2.1	60
23	Increased osteoblast functions on nanophase titania dispersed in poly-lactic-co-glycolic acid composites. <i>Nanotechnology</i> , 2005, 16, S601-S608.	1.3	59
24	The effects of surface and biomolecules on magnesium degradation and mesenchymal stem cell adhesion. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 99A, 249-260.	2.1	59
25	Anodization of magnesium for biomedical applications – Processing, characterization, degradation and cytocompatibility. <i>Acta Biomaterialia</i> , 2017, 62, 397-417.	4.1	57
26	Nanostructured hydroxyapatite/poly(lactic-co-glycolic acid) composite coating for controlling magnesium degradation in simulated body fluid. <i>Nanotechnology</i> , 2013, 24, 375103.	1.3	56
27	Comparison Study on Four Biodegradable Polymer Coatings for Controlling Magnesium Degradation and Human Endothelial Cell Adhesion and Spreading. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 936-950.	2.6	56
28	Increased osteoblast adhesion on nanograined hydroxyapatite and tricalcium phosphate containing calcium titanate. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 80A, 990-997.	2.1	54
29	<i>In vitro</i> degradation of four magnesium-zinc-strontium alloys and their cytocompatibility with human embryonic stem cells. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 989-1003.	1.7	54
30	Nanophase hydroxyapatite and poly(lactide-co-glycolide) composites promote human mesenchymal stem cell adhesion and osteogenic differentiation <i>in vitro</i> . <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 2543-2552.	1.7	53
31	Anodic Growth and Biomedical Applications of TiO ₂ Nanotubes. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 2977-3003.	0.5	53
32	<i>In vitro</i> evaluation of MgSr and MgCaSr alloys via direct culture with bone marrow derived mesenchymal stem cells. <i>Acta Biomaterialia</i> , 2018, 72, 407-423.	4.1	48
33	Dissociation of magnesium oxide and magnesium hydroxide nanoparticles in physiologically relevant fluids. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	0.8	45
34	Graphene and carbon nanotube-graphene hybrid nanomaterials for human embryonic stem cell culture. <i>Materials Letters</i> , 2013, 92, 122-125.	1.3	44
35	Bone marrow derived mesenchymal stem cell response to the RF magnetron sputter deposited hydroxyapatite coating on AZ91 magnesium alloy. <i>Materials Chemistry and Physics</i> , 2019, 221, 89-98.	2.0	44
36	Bone Marrow Stromal Cell Adhesion and Morphology on Micro- and Sub-Micropatterned Titanium. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 660-668.	0.5	41

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37	Ultra-fine-grained Zn-0.5Mn alloy processed by multi-pass hot extrusion: Grain refinement mechanism and room-temperature superplasticity. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 748, 262-266.	2.6	41
38	Enhanced biological and mechanical properties of well-dispersed nanophase ceramics in polymer composites: From 2D to 3D printed structures. <i>Materials Science and Engineering C</i> , 2011, 31, 77-89.	3.8	38
39	Influence of Mg on the mechanical properties and degradation performance of as-extruded Zn Mg Ca alloys: In vitro and in vivo behavior. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 95, 220-231.	1.5	38
40	In vivo assessment of biodegradable magnesium alloy ureteral stents in a pig model. <i>Acta Biomaterialia</i> , 2020, 116, 415-425.	4.1	38
41	The Effects of Serum Proteins on Magnesium Alloy Degradation in Vitro. <i>Scientific Reports</i> , 2017, 7, 14335.	1.6	37
42	Photo-assisted green synthesis of silver doped silk fibroin/carboxymethyl cellulose nanocomposite hydrogels for biomedical applications. <i>Materials Science and Engineering C</i> , 2020, 107, 110219.	3.8	37
43	An In Vitro Mechanism Study on the Proliferation and Pluripotency of Human Embryonic Stems Cells in Response to Magnesium Degradation. <i>PLoS ONE</i> , 2013, 8, e76547.	1.1	36
44	Grain refinement in an Al Er alloy during accumulative continuous extrusion forming. <i>Journal of Alloys and Compounds</i> , 2016, 680, 283-290.	2.8	35
45	Electrophoretic deposition and characterization of nanocomposites and nanoparticles on magnesium substrates. <i>Nanotechnology</i> , 2015, 26, 175102.	1.3	34
46	Degradation of Bioresorbable Mg ⁴ Zn ¹ Sr Intramedullary Pins and Associated Biological Responses in Vitro and in Vivo. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 44332-44355.	4.0	34
47	Ceramic/polymer nanocomposites with tunable drug delivery capability at specific disease sites. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 93A, 1180-1192.	2.1	33
48	Evaluation of as-extruded ternary Zn ⁴ Mg ⁴ Zr alloys for biomedical implantation material: In vitro and in vivo behavior. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 1056-1070.	0.8	32
49	Electrochemical deposition and evaluation of electrically conductive polymer coating on biodegradable magnesium implants for neural applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 307-316.	1.7	31
50	Antimicrobial Bioresorbable Mg ⁴ Zn ⁴ Ca Alloy for Bone Repair in a Comparison Study with Mg ⁴ Zn ⁴ Sr Alloy and Pure Mg. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 517-538.	2.6	31
51	Nano-to-Submicron Hydroxyapatite Coatings for Magnesium-based Bioresorbable Implants Deposition, Characterization, Degradation, Mechanical Properties, and Cytocompatibility. <i>Scientific Reports</i> , 2019, 9, 810.	1.6	29
52	Antimicrobial Properties of MgO Nanostructures on Magnesium Substrates. <i>ACS Omega</i> , 2020, 5, 24613-24627.	1.6	29
53	Angiogenic Hyaluronic Acid Hydrogels with Curcumin-Coated Magnetic Nanoparticles for Tissue Repair. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 11051-11067.	4.0	29
54	Superhydrophobic fluoride conversion coating on bioresorbable magnesium alloy fabrication, characterization, degradation and cytocompatibility with BMSCs. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 1246-1260.	5.5	28

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55	Cytocompatibility of Magnesium Alloys with Human Urothelial Cells: A Comparison of Three Culture Methodologies. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1559-1571.	2.6	27
56	Label-free distinction between p53+/+ and p53 -/- colon cancer cells using a graphene based SERS platform. <i>Biosensors and Bioelectronics</i> , 2018, 118, 108-114.	5.3	25
57	A systemic study on key parameters affecting nanocomposite coatings on magnesium substrates. <i>Acta Biomaterialia</i> , 2016, 36, 332-349.	4.1	23
58	Electrochemical deposition of conductive polymers onto magnesium microwires for neural electrode applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 1887-1895.	2.1	23
59	Responses of human urothelial cells to magnesium-zinc-strontium alloys and associated insoluble degradation products for urological stent applications. <i>Materials Science and Engineering C</i> , 2019, 96, 248-262.	3.8	23
60	Osteoblast adhesion on novel machinable calcium phosphate/lanthanum phosphate composites for orthopedic applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 89A, 727-733.	2.1	22
61	The effects of eutectic silicon on grain refinement in an Al-Si alloy processed by accumulative continuous extrusion forming. <i>Journal of Materials Science</i> , 2017, 52, 1137-1148.	1.7	22
62	A Comparison Study on the Degradation and Cytocompatibility of Mg-4Zn-xSr Alloys in Direct Culture. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 540-550.	2.6	20
63	<i>In vitro</i> interactions of blood, platelet, and fibroblast with biodegradable magnesium-zinc-strontium alloys. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 2974-2986.	2.1	19
64	Degradation behaviors and cytocompatibility of Mg/2 α -tricalcium phosphate composites produced by spark plasma sintering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 2238-2253.	1.6	19
65	Tunable Crosslinking, Reversible Phase Transition, and 3D Printing of Hyaluronic Acid Hydrogels via Dynamic Coordination of Innate Carboxyl Groups and Metallic Ions. <i>ACS Applied Bio Materials</i> , 2021, 4, 2408-2428.	2.3	18
66	Optimization of nano-hydroxyapatite/poly(lactic-co-glycolic acid) coatings on magnesium substrates using one-step electrophoretic deposition. <i>Materials Letters</i> , 2017, 186, 12-16.	1.3	17
67	Effects of pre-precipitation of Cr ₂ N on microstructures and properties of high nitrogen stainless steel. <i>Journal of Central South University</i> , 2012, 19, 1189-1195.	1.2	16
68	The effects of poly(3,4-ethylenedioxythiophene) coating on magnesium degradation and cytocompatibility with human embryonic stem cells for potential neural applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 25-37.	2.1	16
69	Bioinspired Nanocomposites for Orthopedic Applications. , 2007, , 1-51.		14
70	Investigation on magnesium degradation under flow versus static conditions using a novel impedance-driven flow apparatus. <i>Progress in Natural Science: Materials International</i> , 2014, 24, 554-560.	1.8	13
71	Nanostructured calcium phosphate coatings on magnesium alloys: characterization and cytocompatibility with mesenchymal stem cells. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 189.	1.7	13
72	Magnesium-based Biodegradable Materials for Biomedical Applications. <i>MRS Advances</i> , 2018, 3, 2359-2364.	0.5	13

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73	Novel nanostructured hydroxyapatite coating for dental and orthopedic implants. <i>Jom</i> , 2009, 61, 67-69.	0.9	12
74	Development of a novel loading device for studying magnesium degradation under compressive load for implant applications. <i>Materials Letters</i> , 2018, 217, 27-32.	1.3	12
75	Dispersibility and characterization of polyvinyl alcohol-coated magnetic nanoparticles in poly(glycerol sebacate) for biomedical applications. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	0.8	12
76	In vivo degradability and biocompatibility of a rheo-formed Mg-Zn-Sr alloy for ureteral implantation. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 1631-1639.	5.5	11
77	Measuring the mass, volume, and density of microgram-sized objects in fluid. <i>PLoS ONE</i> , 2017, 12, e0174068.	1.1	11
78	Optical and biological properties of polymer-based nanocomposites with improved dispersion of ceramic nanoparticles. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 2692-2707.	2.1	10
79	Synthesis, characterization, and cytocompatibility of yttria stabilized zirconia nanopowders for creating a window to the brain. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 925-938.	1.6	10
80	Corrosion characteristics of zinc-zirconium alloy in SBF and its biocompatibility in vitro/in vivo. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2020, 71, 196-208.	0.8	10
81	Microstructure of Biodegradable Zn-Fe Alloys and Mechanical and Corrosion Properties. <i>Jom</i> , 2020, 72, 3661-3671.	0.9	10
82	Increased Osteoblast Functions on (Poly-lactic-co-glycolic acid) with Highly Dispersed Nanophase Titania. <i>Journal of Biomedical Nanotechnology</i> , 2005, 1, 83-89.	0.5	9
83	Engineering Nano-to-Micron-Patterned Polymer Coatings on Bioresorbable Magnesium for Controlling Human Endothelial Cell Adhesion and Morphology. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 3878-3898.	2.6	9
84	Surface Modification and Coatings for Controlling the Degradation and Bioactivity of Magnesium Alloys for Medical Applications. , 2017, , 331-363.		8
85	Magnesium-based biodegradable microelectrodes for neural recording. <i>Materials Science and Engineering C</i> , 2020, 110, 110614.	3.8	8
86	In vivo urinary compatibility of Mg-Sr-Ag alloy in swine model. <i>Bioactive Materials</i> , 2022, 7, 254-262.	8.6	8
87	Corrosion and Biocompatibility of Pure Zn with a Micro-Arc-Oxidized Layer Coated with Calcium Phosphate. <i>Coatings</i> , 2021, 11, 1425.	1.2	8
88	Electrophoretic Deposition and Characterization of Biocomposites on Magnesium for Orthopedic Applications. <i>Advanced Materials Research</i> , 0, 922, 761-766.	0.3	7
89	Electrophoretic Deposition of Magnesium Oxide Nanoparticles on Magnesium: Processing Parameters, Microstructures, Degradation, and Cytocompatibility. <i>ACS Applied Bio Materials</i> , 2019, 2, 5634-5652.	2.3	7
90	Effects of magnesium on growth and proliferation of human embryonic stem cells. , 2012, 2012, 723-6.		5

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91	A Review of Current Advances in Biomaterials for Neural Tissue Regeneration. Recent Patents on Biomedical Engineering, 2013, 6, 29-39.	0.5	5
92	In vitro degradation and cytocompatibility of Magnesium-Zinc-Strontium alloys with human embryonic stem cells. , 2012, 2012, 2432-5.		4
93	A portable device for studying the effects of fluid flow on degradation properties of biomaterials inside cell incubators. International Journal of Energy Production and Management, 2019, 6, 39-48.	1.9	4
94	Improved bone marrow stromal cell adhesion on micropatterned Titanium surfaces. , 2012, 2012, 5666-9.		3
95	Antimicrobial properties of biodegradable magnesium for next generation ureteral stent applications. , 2012, 2012, 1378-81.		3
96	Nanostructured Ceramic and Ceramic-Polymer Composites as Dual Functional Interface for Bioresorbable Metallic Implants. Materials Research Society Symposia Proceedings, 2014, 1621, 39-45.	0.1	3
97	Characterization of Hydroxyapatite Coated Mg for Biomedical Applications. MRS Advances, 2018, 3, 2385-2389.	0.5	3
98	A study on calcium phosphate/barium titanate composites: phase characterization, piezoelectric property, and cytocompatibility. Journal of the Australian Ceramic Society, 2020, 56, 1197-1216.	1.1	3
99	Biodegradable Materials for Medical Applications II. Jom, 2020, 72, 1830-1832.	0.9	3
100	Biodegradable Metals and Responsive Biosensors for Musculoskeletal Applications. , 2011, , 115-137.		3
101	Bioceramics for Orthopaedic Device Applications: Hydroxyapatite. , 2017, , 49-77.		2
102	Fabrication and Characterization of Biodegradable Metal Based Microelectrodes for In Vivo Neural Recording. MRS Advances, 2019, 4, 2471-2477.	0.5	2
103	Ceramic/Polymer Nanocomposite Tissue Engineering Scaffolds for More Effective Orthopedic Applications: From 2D Surfaces to Novel 3D Architectures. Materials Research Society Symposia Proceedings, 2006, 950, 1.	0.1	1
104	Controlling the Biodegradation of Magnesium Implants Through Nanostructured Coatings. , 2011, , .		1
105	Interactions between aggressive ions and the surface of a magnesium-yttrium alloy. , 2012, 2012, 5670-3.		1
106	Surface Characterization of Magnesium Anodized in a 10M KOH Electrolyte. Advanced Materials Research, 0, 922, 513-518.	0.3	1
107	Nanomaterials as Improved Implants: a of Review Recent Studies. Ceramic Engineering and Science Proceedings, 0, , 165-180.	0.1	1
108	Direct and Indirect Culture Methods for Studying Biodegradable Implant Materials &em>In Vitro. Journal of Visualized Experiments, 2022, , .	0.2	1

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109	Enhanced Osteoblast Functions on Nanophase Titania in Poly-lactic-co-glycolic Acid (PLGA) Composites. Materials Research Society Symposia Proceedings, 2004, 845, 175.	0.1	0
110	Surface Roughness Values Closer to Bone for Titania Nanoparticle/Poly-lactic-co-glycolic Acid (PLGA) Composites Increases Bone Cell Adhesion. Materials Research Society Symposia Proceedings, 2005, 873, 1.	0.1	0
111	Increased Osteoblast Adhesion on Nanograined Hydroxyapatite and Tricalcium Phosphate Calcium Titanate Composites. Materials Research Society Symposia Proceedings, 2006, 950, 1.	0.1	0
112	Nano-dispersed Particulate Ceramics in Poly-Lactide-Co-Glycolide Composites Improve Implantable Bone Substitute Properties. Materials Research Society Symposia Proceedings, 2007, 1056, 1.	0.1	0
113	Nanophase ceramic/polymer composite scaffolds for bone regeneration: From 2D to 3D. , 2007, , .		0
114	Electrochemical Deposition and Evaluation of Conductive Polymer Coating on Biodegradable Magnesium Implants for Neural Applications. Materials Research Society Symposia Proceedings, 2012, 1466, 44.	0.1	0
115	Nanotechnology Enabled Drug Delivery Systems for Bone and Cartilage Regeneration. Recent Patents on Biomedical Engineering, 2012, 5, 51-56.	0.5	0
116	Characterization of Magnesium Alloy Degradation in Whole Blood and Platelet Rich Plasma. Advanced Materials Research, 0, 922, 543-548.	0.3	0
117	Cytocompatibility of Magnesium-Zinc-Calcium Alloys with Bone Marrow Derived Mesenchymal Stem Cells. Advanced Materials Research, 0, 922, 1-6.	0.3	0
118	Investigation of Biodegradable Composite Coated Magnesium Alloy Using Optical Coherence Tomography. Advanced Materials Research, 0, 922, 292-297.	0.3	0
119	Improved Mechanical Properties of Nanocrystalline Hydroxyapatite Coating for Dental and Orthopedic Implants. , 2008, , .		0
120	Nanophase Hydroxyapatite in Biodegradable Polymer Composites as Novel Drug-Carrying Implants for Treating Bone Diseases at Targeted Sites. Ceramic Transactions, 0, , 183-191.	0.1	0
121	Synthesis and Characterization of Al, Ag, Ti, Cu, and B Substituted Hydroxylapatite. , 0, , 131-137.		0
122	A review on the 3D printing of composite scaffolds for bone tissue engineering. , 2022, , 201-241.		0
123	Nanocrystalline Yttria-Stabilized Zirconia Ceramics for Cranial Window Applications. ACS Applied Bio Materials, 2022, 5, 2664-2675.	2.3	0