Cijun Shuai

List of Publications by Year
in descending order

279 papers	14,169 citations	24978 57 h-index	29081 104 g-index
279 all docs	279 docs citations	279 times ranked	15611 citing authors

#	Article	IF	Citations
1	Hydroxyapatite Whisker Reinforced 63s Glass Scaffolds for Bone Tissue Engineering. BioMed Research International, 2015, 2015, 1-8.	0.9	2,383
2	Bone biomaterials and interactions with stem cells. Bone Research, 2017, 5, 17059.	5.4	503
3	A Multimaterial Scaffold With Tunable Properties: Toward Bone Tissue Repair. Advanced Science, 2018, 5, 1700817.	5.6	264
4	A strawberry-like Ag-decorated barium titanate enhances piezoelectric and antibacterial activities of polymer scaffold. Nano Energy, 2020, 74, 104825.	8.2	264
5	Mg bone implant: Features, developments and perspectives. Materials and Design, 2020, 185, 108259.	3.3	251
6	Current Progress in Bioactive Ceramic Scaffolds for Bone Repair and Regeneration. International Journal of Molecular Sciences, 2014, 15, 4714-4732.	1.8	243
7	Accelerated degradation of HAP/PLLA bone scaffold by PGA blending facilitates bioactivity and osteoconductivity. Bioactive Materials, 2021, 6, 490-502.	8.6	236
8	A graphene oxide-Ag co-dispersing nanosystem: Dual synergistic effects on antibacterial activities and mechanical properties of polymer scaffolds. Chemical Engineering Journal, 2018, 347, 322-333.	6.6	209
9	Carbon nanotube, graphene and boron nitride nanotube reinforced bioactive ceramics for bone repair. Acta Biomaterialia, 2017, 61, 1-20.	4.1	170
10	Biodegradable metallic bone implants. Materials Chemistry Frontiers, 2019, 3, 544-562.	3.2	150
11	Trabecular-like Ti-6Al-4V scaffolds for orthopedic: fabrication by selective laser melting and in vitro biocompatibility. Journal of Materials Science and Technology, 2019, 35, 1284-1297.	5.6	149
12	Antibacterial polymer scaffold based on mesoporous bioactive glass loaded with in situ grown silver. Chemical Engineering Journal, 2019, 374, 304-315.	6.6	133
13	Microstructure evolution and texture tailoring of reduced graphene oxide reinforced Zn scaffold. Bioactive Materials, 2021, 6, 1230-1241.	8.6	132
14	Enhancement mechanisms of graphene in nano-58S bioactive glass scaffold: mechanical and biological performance. Scientific Reports, 2014, 4, 4712.	1.6	125
15	A novel two-step sintering for nano-hydroxyapatite scaffolds for bone tissue engineering. Scientific Reports, 2014, 4, 5599.	1.6	124
16	3D honeycomb nanostructure-encapsulated magnesium alloys with superior corrosion resistance and mechanical properties. Composites Part B: Engineering, 2019, 162, 611-620.	5.9	124
17	In situ synthesis of hydroxyapatite nanorods on graphene oxide nanosheets and their reinforcement in biopolymer scaffold. Journal of Advanced Research, 2022, 35, 13-24.	4.4	124
18	Additive manufacturing of bone scaffolds. International Journal of Bioprinting, 2018, 5, 148.	1.7	120

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19	Molybdenum disulfide nanosheets embedded with nanodiamond particles: co-dispersion nanostructures as reinforcements for polymer scaffolds. Applied Materials Today, 2019, 17, 216-226.	2.3	116
20	Structure and properties of nano-hydroxypatite scaffolds for bone tissue engineering with a selective laser sintering system. Nanotechnology, 2011, 22, 285703.	1.3	115
21	Vibration analysis of functionally graded carbon nanotube reinforced composites (FG-CNTRC) circular, annular and sector plates. Composite Structures, 2018, 194, 49-67.	3.1	111
22	Free vibrations of functionally graded porous rectangular plate with uniform elastic boundary conditions. Composites Part B: Engineering, 2019, 168, 106-120.	5.9	106
23	Optimization of TCP/HAP ratio for better properties of calcium phosphate scaffold via selective laser sintering. Materials Characterization, 2013, 77, 23-31.	1.9	104
24	Laser rapid solidification improves corrosion behavior of Mg-Zn-Zr alloy. Journal of Alloys and Compounds, 2017, 691, 961-969.	2.8	104
25	A combined strategy to enhance the properties of Zn by laser rapid solidification and laser alloying. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 82, 51-60.	1.5	103
26	Functionalized BaTiO3 enhances piezoelectric effect towards cell response of bone scaffold. Colloids and Surfaces B: Biointerfaces, 2020, 185, 110587.	2.5	102
27	A magnetic micro-environment in scaffolds for stimulating bone regeneration. Materials and Design, 2020, 185, 108275.	3.3	101
28	Fabrication and properties of zirconia/hydroxyapatite composite scaffold based on digital light processing. Ceramics International, 2020, 46, 2300-2308.	2.3	96
29	Laser additive manufacturing of Zn-2Al part for bone repair: Formability, microstructure and properties. Journal of Alloys and Compounds, 2019, 798, 606-615.	2.8	93
30	Fabrication of porous polyvinyl alcohol scaffold for bone tissue engineering via selective laser sintering. Biofabrication, 2013, 5, 015014.	3.7	92
31	Characterizations and interfacial reinforcement mechanisms of multicomponent biopolymer based scaffold. Materials Science and Engineering C, 2019, 100, 809-825.	3.8	90
32	Surface modification of nanodiamond: Toward the dispersion of reinforced phase in poly-l-lactic acid scaffolds. International Journal of Biological Macromolecules, 2019, 126, 1116-1124.	3.6	86
33	Characterization of Mechanical and Biological Properties of 3-D Scaffolds Reinforced with Zinc Oxide for Bone Tissue Engineering. PLoS ONE, 2014, 9, e87755.	1.1	85
34	Graphene oxide reinforced poly(vinyl alcohol): nanocomposite scaffolds for tissue engineering applications. RSC Advances, 2015, 5, 25416-25423.	1.7	82
35	Laser additive manufacturing of Mg-based composite with improved degradation behaviour. Virtual and Physical Prototyping, 2020, 15, 278-293.	5.3	82
36	Graphene oxide assists polyvinylidene fluoride scaffold to reconstruct electrical microenvironment of bone tissue. Materials and Design, 2020, 190, 108564.	3.3	81

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37	Microstructure, biodegradation, antibacterial and mechanical properties of ZK60-Cu alloys prepared by selective laser melting technique. Journal of Materials Science and Technology, 2018, 34, 1944-1952.	5.6	80
38	Nano-SiC reinforced Zn biocomposites prepared via laser melting: Microstructure, mechanical properties and biodegradability. Journal of Materials Science and Technology, 2019, 35, 2608-2617.	5.6	80
39	An Overview of Long Noncoding RNAs Involved in Bone Regeneration from Mesenchymal Stem Cells. Stem Cells International, 2018, 2018, 1-11.	1.2	79
40	Vibration behavior of the functionally graded porous (FGP) doubly-curved panels and shells of revolution by using a semi-analytical method. Composites Part B: Engineering, 2019, 157, 219-238.	5.9	79
41	LncRNA ODIR1 inhibits osteogenic differentiation of hUC-MSCs through the FBXO25/H2BK120ub/H3K4me3/OSX axis. Cell Death and Disease, 2019, 10, 947.	2.7	79
42	Effect of grain refinement and crystallographic texture produced by friction stir processing on the biodegradation behavior of a Mg-Nd-Zn alloy. Journal of Materials Science and Technology, 2019, 35, 777-783.	5.6	77
43	Interfacial reinforcement in bioceramic/biopolymer composite bone scaffold: The role of coupling agent. Colloids and Surfaces B: Biointerfaces, 2020, 193, 111083.	2.5	76
44	Highly biodegradable and bioactive Fe-Pd-bredigite biocomposites prepared by selective laser melting. Journal of Advanced Research, 2019, 20, 91-104.	4.4	75
45	Three-dimensional exact solution for vibration analysis of thick functionally graded porous (FGP) rectangular plates with arbitrary boundary conditions. Composites Part B: Engineering, 2018, 155, 369-381.	5.9	74
46	Graphene oxide as an interface phase between polyetheretherketone and hydroxyapatite for tissue engineering scaffolds. Scientific Reports, 2017, 7, 46604.	1.6	73
47	A unified solution for the vibration analysis of functionally graded porous (FGP) shallow shells with general boundary conditions. Composites Part B: Engineering, 2019, 156, 406-424.	5.9	73
48	Graphene oxide-driven interfacial coupling in laser 3D printed PEEK/PVA scaffolds for bone regeneration. Virtual and Physical Prototyping, 2020, 15, 211-226.	5.3	70
49	TiO₂-Induced In Situ Reaction in Graphene Oxide-Reinforced AZ61 Biocomposites to Enhance the Interfacial Bonding. ACS Applied Materials & Interfaces, 2020, 12, 23464-23473.	4.0	69
50	Regulating Degradation Behavior by Incorporating Mesoporous Silica for Mg Bone Implants. ACS Biomaterials Science and Engineering, 2018, 4, 1046-1054.	2.6	67
51	Magnetically actuated bone scaffold: Microstructure, cell response and osteogenesis. Composites Part B: Engineering, 2020, 192, 107986.	5.9	67
52	Mechanical Alloying of Immiscible Metallic Systems: Process, Microstructure, and Mechanism. Advanced Engineering Materials, 2021, 23, 2001098.	1.6	67
53	Metal organic frameworks as a compatible reinforcement in a biopolymer bone scaffold. Materials Chemistry Frontiers, 2020, 4, 973-984.	3.2	67
54	Rare earth improves strength and creep resistance of additively manufactured Zn implants. Composites Part B: Engineering, 2021, 216, 108882.	5.9	66

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55	Organic montmorillonite produced an interlayer locking effect in a polymer scaffold to enhance interfacial bonding. Materials Chemistry Frontiers, 2020, 4, 2398-2408.	3.2	64
56	Dynamic analysis of laminated doubly-curved shells with general boundary conditions by means of a domain decomposition method. International Journal of Mechanical Sciences, 2018, 138-139, 159-186.	3.6	62
57	System development, formability quality and microstructure evolution of selective laser-melted magnesium. Virtual and Physical Prototyping, 2016, 11, 173-181.	5.3	61
58	Dynamics analysis of functionally graded porous (FGP) circular, annular and sector plates with general elastic restraints. Composites Part B: Engineering, 2019, 159, 20-43.	5.9	61
59	nMgO-incorporated PLLA bone scaffolds: Enhanced crystallinity and neutralized acidic products. Materials and Design, 2019, 174, 107801.	3.3	58
60	A modified series solution for free vibration analyses of moderately thick functionally graded porous (FGP) deep curved and straight beams. Composites Part B: Engineering, 2019, 165, 155-166.	5.9	58
61	In Situ Generation of Hydroxyapatite on Biopolymer Particles for Fabrication of Bone Scaffolds Owning Bioactivity. ACS Applied Materials & Interfaces, 2020, 12, 46743-46755.	4.0	58
62	Electrostatic self-assembly of pFe3O4 nanoparticles on graphene oxide: A co-dispersed nanosystem reinforces PLLA scaffolds. Journal of Advanced Research, 2020, 24, 191-203.	4.4	58
63	A combined nanostructure constructed by graphene and boron nitride nanotubes reinforces ceramic scaffolds. Chemical Engineering Journal, 2017, 313, 487-497.	6.6	57
64	Positive feedback effects of Mg on the hydrolysis of poly-l-lactic acid (PLLA): Promoted degradation of PLLA scaffolds. Polymer Testing, 2018, 68, 27-33.	2.3	57
65	Improved biodegradation resistance by grain refinement of novel antibacterial ZK30-Cu alloys produced via selective laser melting. Materials Letters, 2019, 237, 253-257.	1.3	57
66	Interfacial strengthening by reduced graphene oxide coated with MgO in biodegradable Mg composites. Materials and Design, 2020, 191, 108612.	3.3	57
67	Synthesis of a mace-like cellulose nanocrystal@Ag nanosystem via in-situ growth for antibacterial activities of poly-L-lactide scaffold. Carbohydrate Polymers, 2021, 262, 117937.	5.1	56
68	Development of composite porous scaffolds based on poly(lactide-co-glycolide)/nano-hydroxyapatite via selective laser sintering. International Journal of Advanced Manufacturing Technology, 2013, 69, 51-57.	1.5	53
69	Degradation mechanisms and acceleration strategies of poly (lactic acid) scaffold for bone regeneration. Materials and Design, 2021, 210, 110066.	3.3	53
70	Additive manufacturing of Bio-inspired ceramic bone Scaffolds: Structural Design, mechanical properties and biocompatibility. Materials and Design, 2022, 217, 110610.	3.3	53
71	Linc02349 promotes osteogenesis of human umbilical cordâ€derived stem cells by acting as a competing endogenous RNA for miRâ€25â€3p and miRâ€33bâ€5p. Cell Proliferation, 2020, 53, e12814.	2.4	52
72	Structural Design and Experimental Analysis of a Selective Laser Sintering System with Nano-Hydroxyapatite Powder. Journal of Biomedical Nanotechnology, 2010, 6, 370-374.	0.5	50

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73	Dysregulated Expression of Long Noncoding RNAs in Ovarian Cancer. International Journal of Gynecological Cancer, 2016, 26, 1564-1570.	1.2	50
74	Selective laser melted Fe-Mn bone scaffold: microstructure, corrosion behavior and cell response. Materials Research Express, 2020, 7, 015404.	0.8	50
75	Coreâ€“shell-Structured ZIF-8@PDA-HA with Controllable Zinc Ion Release and Superior Bioactivity for Improving a Poly-<scp>l</scp>-lactic Acid Scaffold. ACS Sustainable Chemistry and Engineering, 2021, 9, 1814-1825.	3.2	50
76	Selective laser melting of Znâ€“Ag alloys for bone repair: microstructure, mechanical properties and degradation behaviour. Virtual and Physical Prototyping, 2018, 13, 146-154.	5.3	49
77	Formation and characteristic corrosion behavior of alternately lamellar arranged Î± and Î² in as-cast AZ91 Mg alloy. Journal of Alloys and Compounds, 2019, 770, 549-558.	2.8	49
78	Halloysite nanotubes loaded with nano silver for the sustained-release of antibacterial polymer nanocomposite scaffolds. Journal of Materials Science and Technology, 2020, 46, 237-247.	5.6	49
79	A novel design of SiH/CeO₂(111) van der Waals type-II heterojunction for water splitting. Physical Chemistry Chemical Physics, 2021, 23, 2812-2818.	1.3	49
80	Boosting the photocatalytic hydrogen evolution performance of monolayer C₂N coupled with MoSi₂N₄: density-functional theory calculations. Physical Chemistry Chemical Physics, 2021, 23, 8318-8325.	1.3	49
81	3D Printed Zn-doped Mesoporous Silica-incorporated Poly-L-lactic Acid Scaffolds for Bone Repair. International Journal of Bioprinting, 2021, 7, 346.	1.7	49
82	The Enhancement of Mg Corrosion Resistance by Alloying Mn and Laser-Melting. Materials, 2016, 9, 216.	1.3	48
83	A bifunctional bone scaffold combines osteogenesis and antibacterial activity via in situ grown hydroxyapatite and silver nanoparticles. Bio-Design and Manufacturing, 2021, 4, 452-468.	3.9	48
84	Phosphonic Acid Coupling Agent Modification of HAP Nanoparticles: Interfacial Effects in PLLA/HAP Bone Scaffold. Polymers, 2020, 12, 199.	2.0	47
85	Constructing core-shell structured BaTiO3@carbon boosts piezoelectric activity and cell response of polymer scaffolds. Materials Science and Engineering C, 2021, 126, 112129.	3.8	47
86	A nano-sandwich construct built with graphene nanosheets and carbon nanotubes enhances mechanical properties of hydroxyapatite–polyetheretherketone scaffolds. International Journal of Nanomedicine, 2016, Volume 11, 3487-3500.	3.3	46
87	Surface modification enhances interfacial bonding in PLLA/MgO bone scaffold. Materials Science and Engineering C, 2020, 108, 110486.	3.8	46
88	Free vibration analysis of laminated composite elliptic cylinders with general boundary conditions. Composites Part B: Engineering, 2019, 158, 55-66.	5.9	45
89	Dual alloying improves the corrosion resistance of biodegradable Mg alloys prepared by selective laser melting. Journal of Magnesium and Alloys, 2021, 9, 305-316.	5.5	45
90	Application of the differential quadrature finite element method to free vibration of elastically restrained plate with irregular geometries. Engineering Analysis With Boundary Elements, 2018, 90, 1-16.	2.0	44

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91	Magnetostrictive alloys: Promising materials for biomedical applications. Bioactive Materials, 2022, 8, 177-195.	8.6	44
92	Calcium silicate ceramic scaffolds toughened with hydroxyapatite whiskers for bone tissue engineering. Materials Characterization, 2014, 97, 47-56.	1.9	42
93	The microstructure, mechanical properties and degradation behavior of laser-melted Mg Sn alloys. Journal of Alloys and Compounds, 2016, 687, 109-114.	2.8	42
94	Advances in the occurrence and biotherapy of osteoporosis. Biochemical Society Transactions, 2020, 48, 1623-1636.	1.6	42
95	Enhanced sintering ability of biphasic calcium phosphate by polymers used for bone scaffold fabrication. Materials Science and Engineering C, 2013, 33, 3802-3810.	3.8	41
96	Free vibration analysis of functionally graded carbon nanotube reinforced composite truncated conical panels with general boundary conditions. Composites Part B: Engineering, 2019, 160, 225-240.	5.9	41
97	A co-dispersed nanosystem of strontium-anchored reduced graphene oxide to enhance the bioactivity and mechanical property of polymer scaffolds. Materials Chemistry Frontiers, 2021, 5, 2373-2386.	3.2	41
98	<i>In vitro</i> bioactivity and degradability of Î²â€tricalcium phosphate porous scaffold fabricated via selective laser sintering. Biotechnology and Applied Biochemistry, 2013, 60, 266-273.	1.4	39
99	Mechanical properties' improvement of a tricalcium phosphate scaffold with poly-l-lactic acid in selective laser sintering. Biofabrication, 2013, 5, 025005.	3.7	39
100	A three-dimensional solution for free vibration of FGP-GPLRC cylindrical shells resting on elastic foundations: a comparative and parametric study. International Journal of Mechanical Sciences, 2020, 187, 105896.	3.6	38
101	Trabecular-like Tiâ€“6Alâ€“4V scaffold for bone repair: A diversified mechanical stimulation environment for bone regeneration. Composites Part B: Engineering, 2022, 241, 110057.	5.9	38
102	Microstructure Evolution and Biodegradation Behavior of Laser Rapid Solidified Mgâ€“Alâ€“Zn Alloy. Metals, 2017, 7, 105.	1.0	37
103	Rare Earth Element Yttrium Modified Mg-Al-Zn Alloy: Microstructure, Degradation Properties and Hardness. Materials, 2017, 10, 477.	1.3	37
104	Toughening and strengthening mechanisms of porous akermanite scaffolds reinforced with nano-titania. RSC Advances, 2015, 5, 3498-3507.	1.7	36
105	Biodegradation Resistance and Bioactivity of Hydroxyapatite Enhanced Mg-Zn Composites via Selective Laser Melting. Materials, 2017, 10, 307.	1.3	36
106	In-situ deposition of apatite layer to protect Mg-based composite fabricated via laser additive manufacturing. Journal of Magnesium and Alloys, 2023, 11, 629-640.	5.5	36
107	Processing and characterization of laser sintered hydroxyapatite scaffold for tissue engineering. Biotechnology and Bioprocess Engineering, 2013, 18, 520-527.	1.4	35
108	Graphene-reinforced mechanical properties of calcium silicate scaffolds by laser sintering. RSC Advances, 2014, 4, 12782-12788.	1.7	35

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109	Rationally designed 2D/2D SiC/g-C₃N₄ photocatalysts for hydrogen production. Catalysis Science and Technology, 2019, 9, 3896-3906.	2.1	35
110	Mechanically driving supersaturated Feâ€“Mg solid solution for bone implant: Preparation, solubility and degradation. Composites Part B: Engineering, 2021, 207, 108564.	5.9	35
111	Transcrystalline growth of PLLA on carbon fiber grafted with nano-SiO2 towards boosting interfacial bonding in bone scaffold. Biomaterials Research, 2022, 26, 2.	3.2	35
112	In Situ Growth of a Metalâ€“Organic Framework on Graphene Oxide for the Chemo-Photothermal Therapy of Bacterial Infection in Bone Repair. ACS Applied Materials & Interfaces, 2022, 14, 21996-22005.	4.0	35
113	Cellulose nanocrystals as biobased nucleation agents in poly-l-lactide scaffold: Crystallization behavior and mechanical properties. Polymer Testing, 2020, 85, 106458.	2.3	34
114	A semi-analytical method for transverse vibration of sector-like thin plate with simply supported radial edges. Applied Mathematical Modelling, 2018, 60, 48-63.	2.2	33
115	Silver-doped bioglass modified scaffolds: A sustained antibacterial efficacy. Materials Science and Engineering C, 2021, 129, 112425.	3.8	33
116	Pre-oxidation induced in situ interface strengthening in biodegradable Zn/nano-SiC composites prepared by selective laser melting. Journal of Advanced Research, 2022, 38, 143-155.	4.4	33
117	Characterization and Bioactivity Evaluation of (Polyetheretherketone/Polyglycolicacid)-Hydroyapatite Scaffolds for Tissue Regeneration. Materials, 2016, 9, 934.	1.3	32
118	Influence of hybrid extrusion and solution treatment on the microstructure and degradation behavior of Mg-0.1Cu alloy. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 229, 105-117.	1.7	32
119	Graphene Oxide Induces Ester Bonds Hydrolysis of Poly-l-lactic Acid Scaffold to Accelerate Degradation. International Journal of Bioprinting, 2019, 6, 249.	1.7	32
120	MnO2 catalysis of oxygen reduction to accelerate the degradation of Fe-C composites for biomedical applications. Corrosion Science, 2020, 170, 108679.	3.0	31
121	Cu ions and cetyltrimethylammonium bromide loaded into montmorillonite: a synergistic antibacterial system for bone scaffolds. Materials Chemistry Frontiers, 2021, 6, 103-116.	3.2	31
122	Biodegradation mechanisms of selective laser-melted Mgâ€“<i>x</i>Alâ€“Zn alloy: grain size and intermetallic phase. Virtual and Physical Prototyping, 2018, 13, 59-69.	5.3	30
123	Interfacial reinforcement in a poly-l-lactic acid/mesoporous bioactive glass scaffold via polydopamine. Colloids and Surfaces B: Biointerfaces, 2018, 170, 45-53.	2.5	30
124	Insight into enhanced visible-light photocatalytic activity of SWCNTs/g-C3N4 nanocomposites from first principles. Applied Surface Science, 2020, 530, 147181.	3.1	30
125	A peritectic phase refines the microstructure and enhances Zn implants. Journal of Materials Research and Technology, 2020, 9, 2623-2634.	2.6	30
126	Physical stimulations and their osteogenesis-inducing mechanisms. International Journal of Bioprinting, 2018, 4, 138.	1.7	30

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127	Water-responsive shape memory thermoplastic polyurethane scaffolds triggered at body temperature for bone defect repair. Materials Chemistry Frontiers, 2022, 6, 1456-1469.	3.2	30
128	Nano SiO2 and MgO Improve the Properties of Porous Î²-TCP Scaffolds via Advanced Manufacturing Technology. International Journal of Molecular Sciences, 2015, 16, 6818-6830.	1.8	29
129	Antibacterial Capability, Physicochemical Properties, and Biocompatibility of nTiO2 Incorporated Polymeric Scaffolds. Polymers, 2018, 10, 328.	2.0	29
130	Corrosion and antibacterial performance of novel selective-laser-melted (SLMed) Ti-xCu biomedical alloys. Journal of Alloys and Compounds, 2021, 864, 158415.	2.8	29
131	Focal Adhesion Kinase Knockdown in Carcinomaâ€Associated Fibroblasts Inhibits Oral Squamous Cell Carcinoma Metastasis via Downregulating MCPâ€1/CCL2 Expression. Journal of Biochemical and Molecular Toxicology, 2015, 29, 70-76.	1.4	28
132	Akermanite scaffolds reinforced with boron nitride nanosheets in bone tissue engineering. Journal of Materials Science: Materials in Medicine, 2015, 26, 188.	1.7	28
133	Calcium Silicate Improved Bioactivity and Mechanical Properties of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Scaffolds. Polymers, 2017, 9, 175.	2.0	28
134	Wave based method (WBM) for free vibration analysis of cross-ply composite laminated cylindrical shells with arbitrary boundaries. Composite Structures, 2019, 213, 284-298.	3.1	28
135	Influence of graphene oxide (GO) on microstructure and biodegradation of ZK30-xGO composites prepared by selective laser melting. Journal of Magnesium and Alloys, 2020, 8, 952-962.	5.5	28
136	A co-dispersion nanosystem of graphene oxide @silicon-doped hydroxyapatite to improve scaffold properties. Materials and Design, 2021, 199, 109399.	3.3	28
137	Dilemma and breakthrough of biodegradable poly-l-lactic acid in bone tissue repair. Journal of Materials Research and Technology, 2022, 17, 2369-2387.	2.6	28
138	Silver-decorated black phosphorus: a synergistic antibacterial strategy. Nanotechnology, 2022, 33, 245708.	1.3	28
139	Magnetic-driven wireless electrical stimulation in a scaffold. Composites Part B: Engineering, 2022, 237, 109864.	5.9	28
140	Magnetostrictive bulk Fe-Ga alloys prepared by selective laser melting for biodegradable implant applications. Materials and Design, 2022, 220, 110861.	3.3	28
141	Correlation between properties and microstructure of laser sintered porous<i>Î²</i>-tricalcium phosphate bone scaffolds. Science and Technology of Advanced Materials, 2013, 14, 055002.	2.8	27
142	Polyetheretherketone/poly (glycolic acid) blend scaffolds with biodegradable properties. Journal of Biomaterials Science, Polymer Edition, 2016, 27, 1434-1446.	1.9	27
143	A general vibration analysis of functionally graded porous structure elements of revolution with general elastic restraints. Composite Structures, 2019, 209, 277-299.	3.1	27
144	Amorphous magnesium alloy with high corrosion resistance fabricated by laser powder bed fusion. Journal of Alloys and Compounds, 2022, 897, 163247.	2.8	27

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145	Spectral element modeling and experimental investigations on vibration behaviors of imperfect plate considering irregular hole and curved crack. Journal of Sound and Vibration, 2022, 529, 116924.	2.1	27
146	Nitrogen-doped carbon-ZnO heterojunction derived from ZIF-8: a photocatalytic antibacterial strategy for scaffold. Materials Today Nano, 2022, 18, 100210.	2.3	27
147	Downregulation of Micrornaâ€1 48a in Cancerâ€Associated Fibroblasts from Oral Cancer Promotes Cancer Cell Migration and Invasion by Targeting Wnt10b. Journal of Biochemical and Molecular Toxicology, 2016, 30, 186-191.	1.4	26
148	HMG-box transcription factor 1: a positive regulator of the G1/S transition through the Cyclin-CDK-CDKI molecular network in nasopharyngeal carcinoma. Cell Death and Disease, 2018, 9, 100.	2.7	26
149	Graphene-assisted barium titanate improves piezoelectric performance of biopolymer scaffold. Materials Science and Engineering C, 2020, 116, 111195.	3.8	26
150	Sr²⁺ Sustained Release System Augments Bioactivity of Polymer Scaffold. ACS Applied Polymer Materials, 2022, 4, 2691-2702.	2.0	26
151	Nanoâ€Hydroxyapatite Improves the Properties of Î²â€tricalcium Phosphate Bone Scaffolds. International Journal of Applied Ceramic Technology, 2013, 10, 1003-1013.	1.1	25
152	Effect of Nanoâ€Zirconia on the Mechanical and Biological Properties of Calcium Silicate Scaffolds. International Journal of Applied Ceramic Technology, 2015, 12, 1148-1156.	1.1	25
153	A space network structure constructed by tetraneedlelike ZnO whiskers supporting boron nitride nanosheets to enhance comprehensive properties of poly(L-lacti acid) scaffolds. Scientific Reports, 2016, 6, 33385.	1.6	25
154	Mechanical and structural characterization of diopside scaffolds reinforced with graphene. Journal of Alloys and Compounds, 2016, 655, 86-92.	2.8	25
155	Nd-induced honeycomb structure of intermetallic phase enhances the corrosion resistance of Mg alloys for bone implants. Journal of Materials Science: Materials in Medicine, 2017, 28, 130.	1.7	25
156	Construction of a stereocomplex between poly(<scp>d</scp>-lactide) grafted hydroxyapatite and poly(<scp>l</scp>-lactide): toward a bioactive composite scaffold with enhanced interfacial bonding. Journal of Materials Chemistry B, 2022, 10, 214-223.	2.9	25
157	Hydroxyapatite nanoparticles in situ grown on carbon nanotube as a reinforcement for poly (Îµ-caprolactone) bone scaffold. Materials Today Advances, 2022, 15, 100272.	2.5	25
158	A Novel MgO-CaO-SiO2 System for Fabricating Bone Scaffolds with Improved Overall Performance. Materials, 2016, 9, 287.	1.3	24
159	Disperse magnetic sources constructed with functionalized Fe3O4 nanoparticles in poly- -lactic acid scaffolds. Polymer Testing, 2019, 76, 33-42.	2.3	24
160	Biosilicate scaffolds for bone regeneration: influence of introducing SrO. RSC Advances, 2017, 7, 21749-21757.	1.7	23
161	Enhanced Crystallinity and Antibacterial of PHBV Scaffolds Incorporated with Zinc Oxide. Journal of Nanomaterials, 2020, 2020, 1-12.	1.5	23
162	Polydopamine modified polycaprolactone powder for fabrication bone scaffold owing intrinsic bioactivity. Journal of Materials Research and Technology, 2021, 15, 3375-3385.	2.6	23

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163	A conductive network enhances nerve cell response. Additive Manufacturing, 2022, 52, 102694.	1.7	23
164	The microstructure evolution of nanohydroxapatite powder sintered for bone tissue engineering. Journal of Experimental Nanoscience, 2013, 8, 762-773.	1.3	22
165	The interaction of Lin28A/Rho associated coiled-coil containing protein kinase2 accelerates the malignancy of ovarian cancer. Oncogene, 2019, 38, 1381-1397.	2.6	22
166	Surface-Modified Graphene Oxide with Compatible Interface Enhances Poly-L-Lactic Acid Bone Scaffold. Journal of Nanomaterials, 2020, 2020, 1-11.	1.5	22
167	<i>In situ</i> grown rare earth lanthanum on carbon nanofibre for interfacial reinforcement in Zn implants. Virtual and Physical Prototyping, 2022, 17, 700-717.	5.3	22
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