

Peng Shuping

List of Publications by Year in descending order

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75
papers

4,370
citations

101543

36
h-index

110387

64
g-index

75
all docs

75
docs citations

75
times ranked

3581
citing authors

#	ARTICLE	IF	CITATIONS
1	In-situ deposition of apatite layer to protect Mg-based composite fabricated via laser additive manufacturing. <i>Journal of Magnesium and Alloys</i> , 2023, 11, 629-640.	11.9	36
2	Magnetostrictive alloys: Promising materials for biomedical applications. <i>Bioactive Materials</i> , 2022, 8, 177-195.	15.6	44
3	Pre-oxidation induced in situ interface strengthening in biodegradable Zn/nano-SiC composites prepared by selective laser melting. <i>Journal of Advanced Research</i> , 2022, 38, 143-155.	9.5	33
4	Amorphous magnesium alloy with high corrosion resistance fabricated by laser powder bed fusion. <i>Journal of Alloys and Compounds</i> , 2022, 897, 163247.	5.5	27
5	Emerging role of m6A modification in osteogenesis of stem cells. <i>Journal of Bone and Mineral Metabolism</i> , 2022, 40, 177-188.	2.7	6
6	Transcrystalline growth of PLLA on carbon fiber grafted with nano-SiO ₂ towards boosting interfacial bonding in bone scaffold. <i>Biomaterials Research</i> , 2022, 26, 2.	6.9	35
7	Construction of a stereocomplex between poly(<i>d</i> -lactide) grafted hydroxyapatite and poly(<i>l</i> -lactide): toward a bioactive composite scaffold with enhanced interfacial bonding. <i>Journal of Materials Chemistry B</i> , 2022, 10, 214-223.	5.8	25
8	Dilemma and breakthrough of biodegradable poly-L-lactic acid in bone tissue repair. <i>Journal of Materials Research and Technology</i> , 2022, 17, 2369-2387.	5.8	28
9	Silver-decorated black phosphorus: a synergistic antibacterial strategy. <i>Nanotechnology</i> , 2022, 33, 245708.	2.6	28
10	Sr ²⁺ Sustained Release System Augments Bioactivity of Polymer Scaffold. <i>ACS Applied Polymer Materials</i> , 2022, 4, 2691-2702.	4.4	26
11	<i>In situ</i> grown rare earth lanthanum on carbon nanofibre for interfacial reinforcement in Zn implants. <i>Virtual and Physical Prototyping</i> , 2022, 17, 700-717.	10.4	22
12	A conductive network enhances nerve cell response. <i>Additive Manufacturing</i> , 2022, 52, 102694.	3.0	23
13	Magnetic-driven wireless electrical stimulation in a scaffold. <i>Composites Part B: Engineering</i> , 2022, 237, 109864.	12.0	28
14	A dual redox system for enhancing the biodegradability of Fe-C-Cu composite scaffold. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 213, 112431.	5.0	5
15	Water-responsive shape memory thermoplastic polyurethane scaffolds triggered at body temperature for bone defect repair. <i>Materials Chemistry Frontiers</i> , 2022, 6, 1456-1469.	5.9	30
16	Stress-Induced Dual-Phase Structure to Accelerate Degradation of the Fe Implant. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 1841-1851.	5.2	1
17	Nitrogen-doped carbon-ZnO heterojunction derived from ZIF-8: a photocatalytic antibacterial strategy for scaffold. <i>Materials Today Nano</i> , 2022, 18, 100210.	4.6	27
18	In Situ Growth of a Metal-Organic Framework on Graphene Oxide for the Chemo-Photothermal Therapy of Bacterial Infection in Bone Repair. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 21996-22005.	8.0	35

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19	Peritectic-eutectic transformation of intermetallic in Zn alloy: Effects of Mn on the microstructure, strength and ductility. <i>Materials Characterization</i> , 2022, 190, 112054.	4.4	7
20	Hydroxyapatite nanoparticles in situ grown on carbon nanotube as a reinforcement for poly (μ -caprolactone) bone scaffold. <i>Materials Today Advances</i> , 2022, 15, 100272.	5.2	25
21	Magnetostrictive bulk Fe-Ga alloys prepared by selective laser melting for biodegradable implant applications. <i>Materials and Design</i> , 2022, 220, 110861.	7.0	28
22	Dual alloying improves the corrosion resistance of biodegradable Mg alloys prepared by selective laser melting. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 305-316.	11.9	45
23	Microstructure evolution and texture tailoring of reduced graphene oxide reinforced Zn scaffold. <i>Bioactive Materials</i> , 2021, 6, 1230-1241.	15.6	132
24	Accelerated degradation of HAP/PLLA bone scaffold by PGA blending facilitates bioactivity and osteoconductivity. <i>Bioactive Materials</i> , 2021, 6, 490-502.	15.6	236
25	A co-dispersed nanosystem of strontium-anchored reduced graphene oxide to enhance the bioactivity and mechanical property of polymer scaffolds. <i>Materials Chemistry Frontiers</i> , 2021, 5, 2373-2386.	5.9	41
26	Copper-doped mesoporous bioactive glass endows magnesium-based scaffold with antibacterial activity and corrosion resistance. <i>Materials Chemistry Frontiers</i> , 2021, 5, 7228-7240.	5.9	7
27	Mechanical Alloying of Immiscible Metallic Systems: Process, Microstructure, and Mechanism. <i>Advanced Engineering Materials</i> , 2021, 23, 2001098.	3.5	67
28	3D Printed Zn-doped Mesoporous Silica-incorporated Poly-L-lactic Acid Scaffolds for Bone Repair. <i>International Journal of Bioprinting</i> , 2021, 7, 346.	3.4	49
29	A bifunctional bone scaffold combines osteogenesis and antibacterial activity via in situ grown hydroxyapatite and silver nanoparticles. <i>Bio-Design and Manufacturing</i> , 2021, 4, 452-468.	7.7	48
30	Synthesis of a mace-like cellulose nanocrystal@Ag nanosystem via in-situ growth for antibacterial activities of poly-L-lactide scaffold. <i>Carbohydrate Polymers</i> , 2021, 262, 117937.	10.2	56
31	Constructing core-shell structured BaTiO ₃ @carbon boosts piezoelectric activity and cell response of polymer scaffolds. <i>Materials Science and Engineering C</i> , 2021, 126, 112129.	7.3	47
32	Rare earth improves strength and creep resistance of additively manufactured Zn implants. <i>Composites Part B: Engineering</i> , 2021, 216, 108882.	12.0	66
33	Polydopamine-decorated black phosphorous to enhance stability in polymer scaffold. <i>Nanotechnology</i> , 2021, 32, 455701.	2.6	5
34	A Continuous MgF ₂ Network Structure Encapsulated Mg Alloy Prepared by Selective Laser Melting for Enhanced Biodegradation Resistance. <i>Advanced Engineering Materials</i> , 2021, 23, 2100389.	3.5	4
35	In-situ grown Ag on magnetic halloysite nanotubes in scaffolds: Antibacterial, biocompatibility and mechanical properties. <i>Ceramics International</i> , 2021, 47, 32756-32765.	4.8	6
36	Silver-doped bioglass modified scaffolds: A sustained antibacterial efficacy. <i>Materials Science and Engineering C</i> , 2021, 129, 112425.	7.3	33

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37	Galvanic corrosion induced by heterogeneous bimodal grain structures in Fe-Mn implant. <i>Materials Characterization</i> , 2021, 180, 111445.	4.4	3
38	Degradation mechanisms and acceleration strategies of poly (lactic acid) scaffold for bone regeneration. <i>Materials and Design</i> , 2021, 210, 110066.	7.0	53
39	Core-shell-Structured ZIF-8@PDA-HA with Controllable Zinc Ion Release and Superior Bioactivity for Improving a Poly-lactic Acid Scaffold. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 1814-1825.	6.7	50
40	Polydopamine modified polycaprolactone powder for fabrication bone scaffold owing intrinsic bioactivity. <i>Journal of Materials Research and Technology</i> , 2021, 15, 3375-3385.	5.8	23
41	Cu ions and cetyltrimethylammonium bromide loaded into montmorillonite: a synergistic antibacterial system for bone scaffolds. <i>Materials Chemistry Frontiers</i> , 2021, 6, 103-116.	5.9	31
42	Polyaniline Protrusions on MoS ₂ Nanosheets for PVDF Scaffolds with Improved Electrical Stimulation. <i>ACS Applied Nano Materials</i> , 2021, 4, 13955-13966.	5.0	15
43	Functionalized BaTiO ₃ enhances piezoelectric effect towards cell response of bone scaffold. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 185, 110587.	5.0	102
44	Mg bone implant: Features, developments and perspectives. <i>Materials and Design</i> , 2020, 185, 108259.	7.0	251
45	A magnetic micro-environment in scaffolds for stimulating bone regeneration. <i>Materials and Design</i> , 2020, 185, 108275.	7.0	101
46	Surface modification enhances interfacial bonding in PLLA/MgO bone scaffold. <i>Materials Science and Engineering C</i> , 2020, 108, 110486.	7.3	46
47	A peritectic phase refines the microstructure and enhances Zn implants. <i>Journal of Materials Research and Technology</i> , 2020, 9, 2623-2634.	5.8	30
48	Surface-Modified Graphene Oxide with Compatible Interface Enhances Poly-L-Lactic Acid Bone Scaffold. <i>Journal of Nanomaterials</i> , 2020, 2020, 1-11.	2.7	22
49	Interfacial strengthening by reduced graphene oxide coated with MgO in biodegradable Mg composites. <i>Materials and Design</i> , 2020, 191, 108612.	7.0	57
50	Graphene oxide assists polyvinylidene fluoride scaffold to reconstruct electrical microenvironment of bone tissue. <i>Materials and Design</i> , 2020, 190, 108564.	7.0	81
51	Phosphonic Acid Coupling Agent Modification of HAP Nanoparticles: Interfacial Effects in PLLA/HAP Bone Scaffold. <i>Polymers</i> , 2020, 12, 199.	4.5	47
52	Linc02349 promotes osteogenesis of human umbilical cord-derived stem cells by acting as a competing endogenous RNA for miR-25 and miR-33b. <i>Cell Proliferation</i> , 2020, 53, e12814.	5.3	52
53	TiO ₂ -Induced In Situ Reaction in Graphene Oxide-Reinforced AZ61 Biocomposites to Enhance the Interfacial Bonding. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23464-23473.	8.0	69
54	Mesoporous Carbon as Galvanic-Corrosion Activator Accelerates Fe Degradation. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2487.	2.5	2

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55	Magnetically actuated bone scaffold: Microstructure, cell response and osteogenesis. <i>Composites Part B: Engineering</i> , 2020, 192, 107986.	12.0	67
56	Laser additive manufacturing of Mg-based composite with improved degradation behaviour. <i>Virtual and Physical Prototyping</i> , 2020, 15, 278-293.	10.4	82
57	A strawberry-like Ag-decorated barium titanate enhances piezoelectric and antibacterial activities of polymer scaffold. <i>Nano Energy</i> , 2020, 74, 104825.	16.0	264
58	Metal organic frameworks as a compatible reinforcement in a biopolymer bone scaffold. <i>Materials Chemistry Frontiers</i> , 2020, 4, 973-984.	5.9	67
59	Advances in the occurrence and biotherapy of osteoporosis. <i>Biochemical Society Transactions</i> , 2020, 48, 1623-1636.	3.4	42
60	Nano-SiC reinforced Zn biocomposites prepared via laser melting: Microstructure, mechanical properties and biodegradability. <i>Journal of Materials Science and Technology</i> , 2019, 35, 2608-2617.	10.7	80
61	Strong corrosion induced by carbon nanotubes to accelerate Fe biodegradation. <i>Materials Science and Engineering C</i> , 2019, 104, 109935.	7.3	18
62	Bioceramic enhances the degradation and bioactivity of iron bone implant. <i>Materials Research Express</i> , 2019, 6, 115401.	1.6	13
63	Molybdenum disulfide nanosheets embedded with nanodiamond particles: co-dispersion nanostructures as reinforcements for polymer scaffolds. <i>Applied Materials Today</i> , 2019, 17, 216-226.	4.3	116
64	Biodegradable metallic bone implants. <i>Materials Chemistry Frontiers</i> , 2019, 3, 544-562.	5.9	150
65	Highly biodegradable and bioactive Fe-Pd-bredigite biocomposites prepared by selective laser melting. <i>Journal of Advanced Research</i> , 2019, 20, 91-104.	9.5	75
66	Laser additive manufacturing of Zn-2Al part for bone repair: Formability, microstructure and properties. <i>Journal of Alloys and Compounds</i> , 2019, 798, 606-615.	5.5	93
67	nMgO-incorporated PLLA bone scaffolds: Enhanced crystallinity and neutralized acidic products. <i>Materials and Design</i> , 2019, 174, 107801.	7.0	58
68	Characterizations and interfacial reinforcement mechanisms of multicomponent biopolymer based scaffold. <i>Materials Science and Engineering C</i> , 2019, 100, 809-825.	7.3	90
69	Refined Lamellar Eutectic in Biomedical Zn-Al-Zr Alloys for Mechanical Reinforcement. <i>Advanced Engineering Materials</i> , 2019, 21, 1801322.	3.5	5
70	Crystallinity and Reinforcement in Poly-L-Lactic Acid Scaffold Induced by Carbon Nanotubes. <i>Advances in Polymer Technology</i> , 2019, 2019, 1-10.	1.7	12
71	Carbon nanotube, graphene and boron nitride nanotube reinforced bioactive ceramics for bone repair. <i>Acta Biomaterialia</i> , 2017, 61, 1-20.	8.3	170
72	Biosilicate scaffolds for bone regeneration: influence of introducing SrO. <i>RSC Advances</i> , 2017, 7, 21749-21757.	3.6	23

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73	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.	3.6	25
74	Bone biomaterials and interactions with stem cells. Bone Research, 2017, 5, 17059.	11.4	503
75	Bioactivity Improvement of Forsterite-Based Scaffolds with nano-58S Bioactive Glass. Materials and Manufacturing Processes, 2014, 29, 877-884.	4.7	21