Youwen Yang

List of Publications by Year
in descending order

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		101543	133252
67	3,674	36	59
papers	citations	h-index	g-index

67	67	67	3165
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Multimaterial Scaffold With Tunable Properties: Toward Bone Tissue Repair. Advanced Science, 2018, 5, 1700817.	11.2	264
2	A strawberry-like Ag-decorated barium titanate enhances piezoelectric and antibacterial activities of polymer scaffold. Nano Energy, 2020, 74, 104825.	16.0	264
3	Mg bone implant: Features, developments and perspectives. Materials and Design, 2020, 185, 108259.	7.0	251
4	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.	10.7	149
5	Microstructure evolution and texture tailoring of reduced graphene oxide reinforced Zn scaffold. Bioactive Materials, 2021, 6, 1230-1241.	15.6	132
6	3D honeycomb nanostructure-encapsulated magnesium alloys with superior corrosion resistance and mechanical properties. Composites Part B: Engineering, 2019, 162, 611-620.	12.0	124
7	Additive manufacturing of bone scaffolds. International Journal of Bioprinting, 2018, 5, 148.	3.4	120
8	Laser rapid solidification improves corrosion behavior of Mg-Zn-Zr alloy. Journal of Alloys and Compounds, 2017, 691, 961-969.	5.5	104
9	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.	3.1	103
10	Functionalized BaTiO3 enhances piezoelectric effect towards cell response of bone scaffold. Colloids and Surfaces B: Biointerfaces, 2020, 185, 110587.	5.0	102
11	A magnetic micro-environment in scaffolds for stimulating bone regeneration. Materials and Design, 2020, 185, 108275.	7.0	101
12	Fabrication and properties of zirconia/hydroxyapatite composite scaffold based on digital light processing. Ceramics International, 2020, 46, 2300-2308.	4.8	96
13	Laser additive manufacturing of Zn-2Al part for bone repair: Formability, microstructure and properties. Journal of Alloys and Compounds, 2019, 798, 606-615.	5.5	93
14	Laser additive manufacturing of Mg-based composite with improved degradation behaviour. Virtual and Physical Prototyping, 2020, 15, 278-293.	10.4	82
15	Graphene oxide assists polyvinylidene fluoride scaffold to reconstruct electrical microenvironment of bone tissue. Materials and Design, 2020, 190, 108564.	7.0	81
16	Graphene oxide as an interface phase between polyetheretherketone and hydroxyapatite for tissue engineering scaffolds. Scientific Reports, 2017, 7, 46604.	3.3	73
17	Regulating Degradation Behavior by Incorporating Mesoporous Silica for Mg Bone Implants. ACS Biomaterials Science and Engineering, 2018, 4, 1046-1054.	5.2	67
18	Magnetically actuated bone scaffold: Microstructure, cell response and osteogenesis. Composites Part B: Engineering, 2020, 192, 107986.	12.0	67

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19	Metal organic frameworks as a compatible reinforcement in a biopolymer bone scaffold. Materials Chemistry Frontiers, 2020, 4, 973-984.	5.9	67
20	Rare earth improves strength and creep resistance of additively manufactured Zn implants. Composites Part B: Engineering, 2021, 216, 108882.	12.0	66
21	System development, formability quality and microstructure evolution of selective laser-melted magnesium. Virtual and Physical Prototyping, 2016, 11, 173-181.	10.4	61
22	nMgO-incorporated PLLA bone scaffolds: Enhanced crystallinity and neutralized acidic products. Materials and Design, 2019, 174, 107801.	7.0	58
23	Electrostatic self-assembly of pFe3O4 nanoparticles on graphene oxide: A co-dispersed nanosystem reinforces PLLA scaffolds. Journal of Advanced Research, 2020, 24, 191-203.	9.5	58
24	Additive manufacturing of Bio-inspired ceramic bone Scaffolds: Structural Design, mechanical properties and biocompatibility. Materials and Design, 2022, 217, 110610.	7.0	53
25	Selective laser melted Fe-Mn bone scaffold: microstructure, corrosion behavior and cell response. Materials Research Express, 2020, 7, 015404.	1.6	50
26	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.	6.7	50
27	Selective laser melting of Znâ€“Ag alloys for bone repair: microstructure, mechanical properties and degradation behaviour. Virtual and Physical Prototyping, 2018, 13, 146-154.	10.4	49
28	A novel design of SiH/CeO₂(111) van der Waals type-II heterojunction for water splitting. Physical Chemistry Chemical Physics, 2021, 23, 2812-2818.	2.8	49
29	Boosting the photocatalytic hydrogen evolution performance of monolayer C₂N coupled with MoSi₂N₄: density-functional theory calculations. Physical Chemistry Chemical Physics, 2021, 23, 8318-8325.	2.8	49
30	The Enhancement of Mg Corrosion Resistance by Alloying Mn and Laser-Melting. Materials, 2016, 9, 216.	2.9	48
31	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.	7.7	48
32	Surface modification enhances interfacial bonding in PLLA/MgO bone scaffold. Materials Science and Engineering C, 2020, 108, 110486.	7.3	46
33	Dual alloying improves the corrosion resistance of biodegradable Mg alloys prepared by selective laser melting. Journal of Magnesium and Alloys, 2021, 9, 305-316.	11.9	45
34	The microstructure, mechanical properties and degradation behavior of laser-melted Mg Sn alloys. Journal of Alloys and Compounds, 2016, 687, 109-114.	5.5	42
35	Trabecular-like Tiâ€“6Alâ€“4V scaffold for bone repair: A diversified mechanical stimulation environment for bone regeneration. Composites Part B: Engineering, 2022, 241, 110057.	12.0	38
36	Microstructure Evolution and Biodegradation Behavior of Laser Rapid Solidified Mgâ€“Alâ€“Zn Alloy. Metals, 2017, 7, 105.	2.3	37

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37	Rare Earth Element Yttrium Modified Mg-Al-Zn Alloy: Microstructure, Degradation Properties and Hardness. Materials, 2017, 10, 477.	2.9	37
38	Graphene Oxide Induces Ester Bonds Hydrolysis of Poly-l-lactic Acid Scaffold to Accelerate Degradation. International Journal of Bioprinting, 2019, 6, 249.	3.4	32
39	MnO2 catalysis of oxygen reduction to accelerate the degradation of Fe-C composites for biomedical applications. Corrosion Science, 2020, 170, 108679.	6.6	31
40	Biodegradation mechanisms of selective laser-melted Mgâ€“xAlâ€“Zn alloy: grain size and intermetallic phase. Virtual and Physical Prototyping, 2018, 13, 59-69.	10.4	30
41	A peritectic phase refines the microstructure and enhances Zn implants. Journal of Materials Research and Technology, 2020, 9, 2623-2634.	5.8	30
42	Graphene-assisted barium titanate improves piezoelectric performance of biopolymer scaffold. Materials Science and Engineering C, 2020, 116, 111195.	7.3	26
43	Layer-dependent photocatalysts of GaN/SiC-based multilayer van der Waals heterojunctions for hydrogen evolution. Catalysis Science and Technology, 2021, 11, 3059-3069.	4.1	21
44	An nMgO containing scaffold: Antibacterial activity, degradation properties and cell responses. International Journal of Bioprinting, 2018, 4, 120.	3.4	20
45	Strong corrosion induced by carbon nanotubes to accelerate Fe biodegradation. Materials Science and Engineering C, 2019, 104, 109935.	7.3	18
46	Semicoherent strengthens graphene/zinc scaffolds. Materials Today Nano, 2022, 17, 100163.	4.6	18
47	Wrapping effect of secondary phases on the grains: increased corrosion resistance of Mgâ€“Al alloys. Virtual and Physical Prototyping, 2018, 13, 292-300.	10.4	17
48	Design and Compressive Fatigue Properties of Irregular Porous Scaffolds for Orthopedics Fabricated Using Selective Laser Melting. ACS Biomaterials Science and Engineering, 2021, 7, 1663-1672.	5.2	17
49	Ag-Introduced Antibacterial Ability and Corrosion Resistance for Bio-Mg Alloys. BioMed Research International, 2018, 2018, 1-13.	1.9	16
50	Fabrication and properties of CaSiO3/ Sr3(PO4)2 composite scaffold based on extrusion deposition. Ceramics International, 2021, 47, 4783-4792.	4.8	16
51	A continuous net-like eutectic structure enhances the corrosion resistance of Mg alloys. International Journal of Bioprinting, 2019, 5, 207.	3.4	15
52	Laser Additive Manufacturing of Zinc Targeting for Biomedical Application. International Journal of Bioprinting, 2021, 8, 501.	3.4	15
53	Lanthanum-Containing Magnesium Alloy with Antitumor Function Based on Increased Reactive Oxygen Species. Applied Sciences (Switzerland), 2018, 8, 2109.	2.5	14
54	Bioceramic enhances the degradation and bioactivity of iron bone implant. Materials Research Express, 2019, 6, 115401.	1.6	13

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55	Mechanism for corrosion protection of Î²-TCP reinforced ZK60 via laser rapid solidification. International Journal of Bioprinting, 2018, 4, 124.	3.4	13
56	Crystallinity and Reinforcement in Poly-L-Lactic Acid Scaffold Induced by Carbon Nanotubes. Advances in Polymer Technology, 2019, 2019, 1-10.	1.7	12
57	Fabrication of a zirconia/calcium silicate composite scaffold based on digital light processing. Ceramics International, 2022, 48, 25923-25932.	4.8	12
58	Construction of an electric microenvironment in piezoelectric scaffolds fabricated by selective laser sintering. Ceramics International, 2019, 45, 20234-20242.	4.8	11
59	Montmorillonite with unique interlayer space imparted polymer scaffolds with sustained release of Ag+. Ceramics International, 2019, 45, 11517-11526.	4.8	11
60	Mechanical properties and biocompatibility of MgO / Ca3(PO4)2 composite ceramic scaffold with high MgO content based on digital light processing. Ceramics International, 2022, 48, 21175-21186.	4.8	11
61	Dilemmas and countermeasures of Fe-based biomaterials for next-generation bone implants. Journal of Materials Research and Technology, 2022, 20, 2034-2050.	5.8	9
62	Laser-Sintered Mg-Zn Supersaturated Solid Solution with High Corrosion Resistance. Micromachines, 2021, 12, 1368.	2.9	7
63	Mechanical Properties of In-Situ Synthesis of Ti-Ti3Al Metal Composite Prepared by Selective Laser Melting. Metals, 2019, 9, 1121.	2.3	5
64	Uniform degradation mode and enhanced degradation resistance of Mg alloy via a long period stacking ordered phase in the grain interior. Materials Research Express, 2019, 6, 065406.	1.6	3
65	Hydrolytic Expansion Induces Corrosion Propagation for Increased Fe Biodegradation. International Journal of Bioprinting, 2019, 6, 248.	3.4	3
66	Mesoporous Carbon as Galvanic-Corrosion Activator Accelerates Fe Degradation. Applied Sciences (Switzerland), 2020, 10, 2487.	2.5	2
67	A multi-scale porous scaffold fabricated by a combined additive manufacturing and chemical etching process for bone tissue engineering. International Journal of Bioprinting, 2018, 4, 133.	3.4	2