

Gaozhi Jia

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

458
citations

686830

13
h-index

940134

16
g-index

16
all docs

16
docs citations

16
times ranked

491
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of biodegradable Zn-based scaffolds using NaCl templates: Relationship between porosity, compressive properties and degradation behavior. <i>Materials Characterization</i> , 2018, 137, 162-169.	1.9	56
2	The in vitro and in vivo biological effects and osteogenic activity of novel biodegradable porous Mg alloy scaffolds. <i>Materials and Design</i> , 2020, 189, 108514.	3.3	50
3	Effects of extrusion temperature on microstructure, mechanical properties and in vitro degradation behavior of biodegradable Zn-3Cu-0.5Fe alloy. <i>Materials Science and Engineering C</i> , 2019, 105, 110106.	3.8	45
4	A Biomimetic Zinc Alloy Scaffold Coated with Brushite for Enhanced Cranial Bone Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 893-903.	2.6	43
5	Precise fabrication of open porous Mg scaffolds using NaCl templates: Relationship between space holder particles, pore characteristics and mechanical behavior. <i>Materials and Design</i> , 2018, 140, 106-113.	3.3	39
6	In vitro degradation behavior of Mg scaffolds with three-dimensional interconnected porous structures for bone tissue engineering. <i>Corrosion Science</i> , 2018, 144, 301-312.	3.0	36
7	Effect of macrophages on <i>in vitro</i> corrosion behavior of magnesium alloy. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2476-2487.	2.1	29
8	Effects of cyclic extrusion and compression parameters on microstructure and mechanical properties of Mg _{1.50} Zn _{0.25} Gd alloy. <i>Materials and Design</i> , 2015, 86, 788-796.	3.3	28
9	Exploring the interconnectivity of biomimetic hierarchical porous Mg scaffolds for bone tissue engineering: Effects of pore size distribution on mechanical properties, degradation behavior and cell migration ability. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 1954-1966.	5.5	27
10	Fatigue and dynamic biodegradation behavior of additively manufactured Mg scaffolds. <i>Acta Biomaterialia</i> , 2021, 135, 705-722.	4.1	27
11	The bioeffects of degradable products derived from a biodegradable Mg-based alloy in macrophages via heterophagy. <i>Acta Biomaterialia</i> , 2020, 106, 428-438.	4.1	20
12	Macrophage phagocytosis of biomedical Mg alloy degradation products prepared by electrochemical method. <i>Materials Science and Engineering C</i> , 2017, 75, 1178-1183.	3.8	19
13	Simultaneous enhancement of anti-corrosion, biocompatibility, and antimicrobial activities by hierarchically-structured brushite/Ag ₃ PO ₄ -coated Mg-based scaffolds. <i>Materials Science and Engineering C</i> , 2020, 111, 110779.	3.8	19
14	Exposure to high levels of magnesium disrupts bone mineralization in vitro and in vivo. <i>Annals of Translational Medicine</i> , 2020, 8, 1419-1419.	0.7	12
15	Effect of grain size on the mechanical properties of Mg foams. <i>Journal of Materials Science and Technology</i> , 2020, 58, 46-54.	5.6	7
16	Effects of dynamic flow rates on degradation deposition behavior of Mg scaffold. <i>Journal of Magnesium and Alloys</i> , 2023, 11, 2054-2060.	5.5	1