

Yang Liu

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,303
citations

361413

20
h-index

677142

22
g-index

22
all docs

22
docs citations

22
times ranked

1400
citing authors

#	ARTICLE	IF	CITATIONS
1	Fundamental Theory of Biodegradable Metals—Definition, Criteria, and Design. <i>Advanced Functional Materials</i> , 2019, 29, 1805402.	14.9	226
2	Fatigue behaviors of HP-Mg, Mg—Ca and Mg—Zn—Ca biodegradable metals in air and simulated body fluid. <i>Acta Biomaterialia</i> , 2016, 41, 351-360.	8.3	95
3	Exercise-induced piezoelectric stimulation for cartilage regeneration in rabbits. <i>Science Translational Medicine</i> , 2022, 14, eabi7282.	12.4	88
4	In Vitro and in Vivo Studies on Biomedical Magnesium Low-Alloying with Elements Gadolinium and Zinc for Orthopedic Implant Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 4394-4408.	8.0	82
5	Development of magnesium-based biodegradable metals with dietary trace element germanium as orthopaedic implant applications. <i>Acta Biomaterialia</i> , 2017, 64, 421-436.	8.3	81
6	Magnesium alloy based interference screw developed for ACL reconstruction attenuates peri-tunnel bone loss in rabbits. <i>Biomaterials</i> , 2018, 157, 86-97.	11.4	79
7	A pH-sensitive self-healing coating for biodegradable magnesium implants. <i>Acta Biomaterialia</i> , 2019, 98, 160-173.	8.3	73
8	Addition of Zn to the ternary Mg—Ca—Sr alloys significantly improves their antibacterial properties. <i>Journal of Materials Chemistry B</i> , 2015, 3, 6676-6689.	5.8	72
9	Study on the Mg-Li-Zn ternary alloy system with improved mechanical properties, good degradation performance and different responses to cells. <i>Acta Biomaterialia</i> , 2017, 62, 418-433.	8.3	65
10	In vitro and in vivo studies of Mg-30Sc alloys with different phase structure for potential usage within bone. <i>Acta Biomaterialia</i> , 2019, 98, 50-66.	8.3	62
11	Comparative Studies on Degradation Behavior of Pure Zinc in Various Simulated Body Fluids. <i>Jom</i> , 2019, 71, 1414-1425.	1.9	56
12	Degradable, absorbable or resorbable—what is the best grammatical modifier for an implant that is eventually absorbed by the body?. <i>Science China Materials</i> , 2017, 60, 377-391.	6.3	51
13	In vitro and in vivo investigation on biodegradable Mg-Li-Ca alloys for bone implant application. <i>Science China Materials</i> , 2019, 62, 256-272.	6.3	39
14	Unique antitumor property of the Mg-Ca-Sr alloys with addition of Zn. <i>Scientific Reports</i> , 2016, 6, 21736.	3.3	38
15	Comparative, real-time in situ monitoring of galvanic corrosion in Mg-Mg ₂ Ca and Mg-MgZn ₂ couples in Hank's solution. <i>Corrosion Science</i> , 2019, 161, 108185.	6.6	38
16	Microstructure, mechanical properties, castability and in vitro biocompatibility of Ti—Bi alloys developed for dental applications. <i>Acta Biomaterialia</i> , 2015, 15, 254-265.	8.3	33
17	Study on the in vitro degradation behavior of pure Mg and WE43 in human bile for 60 days for future usage in biliary. <i>Materials Letters</i> , 2016, 179, 100-103.	2.6	26
18	Influence of biocompatible metal ions (Ag, Fe, Y) on the surface chemistry, corrosion behavior and cytocompatibility of Mg—Ca alloy treated with MEVVA. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 133, 99-107.	5.0	23

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19	Predicting the degradation behavior of magnesium alloys with a diffusion-based theoretical model and in vitro corrosion testing. <i>Journal of Materials Science and Technology</i> , 2019, 35, 1393-1402.	10.7	23
20	Biodegradable metal-derived magnesium and sodium enhances bone regeneration by angiogenesis aided osteogenesis and regulated biological apatite formation. <i>Chemical Engineering Journal</i> , 2021, 410, 127616.	12.7	22
21	In vitro and in vivo studies on magnesium alloys to evaluate the feasibility of their use in obstetrics and gynecology. <i>Acta Biomaterialia</i> , 2019, 97, 623-636.	8.3	17
22	In vivo response of AZ31 alloy as biliary stents: a 6 months evaluation in rabbits. <i>Scientific Reports</i> , 2017, 7, 40184.	3.3	14