

Xiao-Nong Zhang

List of Publications by Year in descending order

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65
papers

3,567
citations

236833

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docs citations

65
times ranked

3084
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled release of hydrogen by implantation of magnesium induces P53-mediated tumor cells apoptosis. <i>Bioactive Materials</i> , 2022, 9, 385-396.	8.6	24
2	Magnesium promotes osteogenesis via increasing <i>OPN</i> expression and activating <i>CaM</i> / <i>CaMKIV</i> / <i>CREB1</i> pathway. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2022, 110, 1594-1603.	1.6	5
3	Sol-Gel-Derived Biodegradable Er-Doped ZnO/Polyethylene Glycol Nanoparticles for Cell Imaging. <i>ACS Applied Nano Materials</i> , 2022, 5, 7103-7112.	2.4	7
4	Biodegradable magnesium implants: a potential scaffold for bone tumor patients. <i>Science China Materials</i> , 2021, 64, 1007-1020.	3.5	28
5	High-purity magnesium pin enhances bone consolidation in distraction osteogenesis via regulating <i>Ptch</i> protein activating Hedgehog-alternative Wnt signaling. <i>Bioactive Materials</i> , 2021, 6, 1563-1574.	8.6	20
6	Degradable magnesium implants inhibit gallbladder cancer. <i>Acta Biomaterialia</i> , 2021, 128, 514-522.	4.1	25
7	Transient and Biocompatible Resistive Switching Memory Based on Electrochemically Deposited Zinc Oxide. <i>Advanced Electronic Materials</i> , 2021, 7, 2100322.	2.6	10
8	Dosage-Dependent Antimicrobial Activity of DNA-Histone Microwebs Against <i>Staphylococcus Aureus</i> . <i>Advanced Materials Interfaces</i> , 2021, 8, 2100717.	1.9	4
9	Effects of MgF ₂ coating on the biodegradation and biological properties of magnesium. <i>Surface and Coatings Technology</i> , 2021, 422, 127552.	2.2	14
10	A novel lean alloy of biodegradable Mg-2Zn with nanograins. <i>Bioactive Materials</i> , 2021, 6, 4333-4341.	8.6	16
11	Multifunctional Magnesium Anastomosis Staples for Wound Closure and Inhibition of Tumor Recurrence and Metastasis. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 5269-5278.	2.6	9
12	Effect of Galvanic Corrosion on the Degradability of Biomedical Magnesium. <i>Frontiers in Materials</i> , 2021, 8, .	1.2	5
13	Local intragranular misorientation accelerates corrosion in biodegradable Mg. <i>Acta Biomaterialia</i> , 2020, 101, 575-585.	4.1	43
14	Cellular different responses to different nanotube inner diameter on surface of pure tantalum. <i>Materials Science and Engineering C</i> , 2020, 109, 110520.	3.8	12
15	High-purity magnesium pin enhances bone consolidation in distraction osteogenesis model through activation of the VHL/HIF-1 α /VEGF signaling. <i>Journal of Biomaterials Applications</i> , 2020, 35, 224-236.	1.2	21
16	Microstructure controls the corrosion behavior of a lean biodegradable Mg-2Zn alloy. <i>Acta Biomaterialia</i> , 2020, 107, 349-361.	4.1	32
17	Biodegradable Mg Implants Suppress the Growth of Ovarian Tumor. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 1755-1763.	2.6	20
18	In vitro crevice corrosion of biodegradable magnesium in different solutions. <i>Journal of Materials Science and Technology</i> , 2020, 52, 83-88.	5.6	10

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19	Crevice corrosion – A newly observed mechanism of degradation in biomedical magnesium. <i>Acta Biomaterialia</i> , 2019, 98, 152-159.	4.1	28
20	Cell behaviors on surface of pure tantalum with nano-dimpled structure. <i>Rare Metals</i> , 2019, 38, 543-551.	3.6	8
21	Translational status of biomedical Mg devices in China. <i>Bioactive Materials</i> , 2019, 4, 358-365.	8.6	33
22	In vitro degradation and mineralization of high-purity magnesium in three physiological fluids. <i>Materials Letters</i> , 2019, 240, 279-283.	1.3	15
23	Assessment of the Biocompatibility and Biological Effects of Biodegradable Pure Zinc Material in the Colorectum. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 4095-4103.	2.6	14
24	High-Purity Magnesium Staples Suppress Inflammatory Response in Rectal Anastomoses. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9506-9515.	4.0	38
25	<i>In Vivo</i> and <i>In Vitro</i> assessment of the biocompatibility and degradation of high-purity Mg anastomotic staples. <i>Journal of Biomaterials Applications</i> , 2017, 31, 1203-1214.	1.2	21
26	Accelerating Corrosion of Pure Magnesium Co-implanted with Titanium in Vivo. <i>Scientific Reports</i> , 2017, 7, 41924.	1.6	25
27	Development of PLA/Mg composite for orthopedic implant: Tunable degradation and enhanced mineralization. <i>Composites Science and Technology</i> , 2017, 147, 8-15.	3.8	79
28	Synergistic effect of a biodegradable Mg–Zn alloy on osteogenic activity and anti-biofilm ability: an in vitro and in vivo study. <i>RSC Advances</i> , 2016, 6, 45219-45230.	1.7	14
29	Site-Dependent Osseointegration of Biodegradable High-Purity Magnesium for Orthopedic Implants in Femoral Shaft and Femoral Condyle of New Zealand Rabbits. <i>Journal of Materials Science and Technology</i> , 2016, 32, 883-888.	5.6	16
30	Research of a novel biodegradable surgical staple made of high purity magnesium. <i>Bioactive Materials</i> , 2016, 1, 122-126.	8.6	41
31	Magnesium interference screw supports early graft incorporation with inhibition of graft degradation in anterior cruciate ligament reconstruction. <i>Scientific Reports</i> , 2016, 6, 26434.	1.6	28
32	In vitro evaluation of effects of Mg-6Zn alloy extracts on apoptosis of intestinal epithelial cells. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016, 31, 1387-1393.	0.4	0
33	Study of Cell Behaviors on Anodized TiO ₂ Nanotube Arrays with Coexisting Multi-Size Diameters. <i>Nano-Micro Letters</i> , 2016, 8, 61-69.	14.4	14
34	High-purity magnesium interference screws promote fibrocartilaginous entheses regeneration in the anterior cruciate ligament reconstruction rabbit model via accumulation of BMP-2 and VEGF. <i>Biomaterials</i> , 2016, 81, 14-26.	5.7	136
35	Ag-Incorporated FHA Coating on Pure Mg: Degradation and in Vitro Antibacterial Properties. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5093-5103.	4.0	46
36	In vitro and in vivo evaluation of effects of Mg–6Zn alloy on tight junction of intestinal epithelial cell. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 3760-3766.	1.7	9

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37	In vitro and in vivo studies on the degradation of high-purity Mg (99.99wt.%) screw with femoral intracondylar fractured rabbit model. <i>Biomaterials</i> , 2015, 64, 57-69.	5.7	190
38	Guided proliferation and bone-forming functionality on highly ordered large diameter TiO ₂ nanotube arrays. <i>Materials Science and Engineering C</i> , 2015, 53, 272-279.	3.8	37
39	Doping inorganic ions to regulate bioactivity of Ca-P coating on bioabsorbable high purity magnesium. <i>Progress in Natural Science: Materials International</i> , 2014, 24, 479-485.	1.8	8
40	In vivo and in vitro evaluation of effects of Mg-6Zn alloy on apoptosis of common bile duct epithelial cell. <i>BioMetals</i> , 2014, 27, 1217-1230.	1.8	24
41	Shape and Site Dependent in Vivo Degradation of Mg-Zn Pins in Rabbit Femoral Condyle. <i>International Journal of Molecular Sciences</i> , 2014, 15, 2959-2970.	1.8	17
42	Comparison of the effects of Mg-6Zn and Ti-3Al-2.5V alloys on TGF- β ² /TNF- α /VEGF/b-FGF in the healing of the intestinal tract in vivo. <i>Biomedical Materials (Bristol)</i> , 2014, 9, 025011.	1.7	15
43	In vitro and in vivo assessment of the biocompatibility of an Mg-6Zn alloy in the bile. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 471-480.	1.7	25
44	In vitro and in vivo corrosion measurements of Mg-6Zn alloys in the bile. <i>Materials Science and Engineering C</i> , 2014, 42, 116-123.	3.8	36
45	Comparison of the effects of Mg-6Zn and titanium on intestinal tract in vivo. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 1515-1525.	1.7	19
46	Effects of biodegradable Mg-6Zn alloy extracts on cell cycle of intestinal epithelial cells. <i>Journal of Biomaterials Applications</i> , 2013, 27, 739-747.	1.2	14
47	Electrochemical property and in vitro degradation of DCPD-PCL composite coating on the biodegradable Mg-Zn alloy. <i>Materials Letters</i> , 2012, 68, 435-438.	1.3	30
48	Effects of biodegradable Mg-6Zn alloy extracts on apoptosis of intestinal epithelial cells. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012, 177, 388-393.	1.7	17
49	Interaction between a high purity magnesium surface and PCL and PLA coatings during dynamic degradation. <i>Biomedical Materials (Bristol)</i> , 2011, 6, 025005.	1.7	132
50	Influence of Mg ²⁺ concentration, pH value and specimen parameter on the hemolytic property of biodegradable magnesium. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 1823-1826.	1.7	16
51	The in vitro indirect cytotoxicity test and in vivo interface bioactivity evaluation of biodegradable FHA coated Mg-Zn alloys. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 1785-1788.	1.7	34
52	Effect of fluoride coating on in vitro dynamic degradation of Mg-Zn alloy. <i>Materials Letters</i> , 2011, 65, 2568-2571.	1.3	16
53	In vitro and in vivo mineralization and osseointegration of nanostructured Ti6Al4V. <i>Journal of Nanoparticle Research</i> , 2011, 13, 645-654.	0.8	23
54	Hierarchical titanium surface textures affect osteoblastic functions. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 99A, 666-675.	2.1	36

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55	The Bioactivated Interfacial Behavior of the Fluoridated Hydroxyapatite-Coated Mg-Zn Alloy in Cell Culture Environments. <i>Bioinorganic Chemistry and Applications</i> , 2011, 2011, 1-7.	1.8	6
56	Influence of dicalcium phosphate dihydrate coating on the in vitro degradation of Mg-Zn alloy. <i>Frontiers of Materials Science in China</i> , 2010, 4, 116-119.	0.5	8
57	Dynamic degradation behavior of MgZn alloy in circulating m-SBF. <i>Materials Letters</i> , 2010, 64, 1996-1999.	1.3	41
58	Influence of Heat Treatments on In Vitro Degradation Behavior of Mg-Zn Alloy Studied by Electrochemical Measurements. <i>Advanced Engineering Materials</i> , 2010, 12, B170.	1.6	11
59	Research on an Mg-Zn alloy as a degradable biomaterial. <i>Acta Biomaterialia</i> , 2010, 6, 626-640.	4.1	1,089
60	Electrodeposition of Ca-P coatings on biodegradable Mg alloy: In vitro biomineralization behavior. <i>Acta Biomaterialia</i> , 2010, 6, 1736-1742.	4.1	335
61	In vitro responses of human bone marrow stromal cells to a fluoridated hydroxyapatite coated biodegradable Mg-Zn alloy. <i>Biomaterials</i> , 2010, 31, 5782-5788.	5.7	174
62	Biocompatibility of bio-Mg-Zn alloy within bone with heart, liver, kidney and spleen. <i>Science Bulletin</i> , 2009, 54, 484-491.	4.3	48
63	In vitro degradation, hemolysis and MC3T3-E1 cell adhesion of biodegradable Mg-Zn alloy. <i>Materials Science and Engineering C</i> , 2009, 29, 1907-1912.	3.8	267
64	Increased osteoblast adhesion on nanophase Ti6Al4V. <i>Science Bulletin</i> , 2008, 53, 1757-1762.	4.3	6
65	Surface modification of pure titanium treated with B4C at high temperature. <i>Surface and Coatings Technology</i> , 2006, 200, 3016-3020.	2.2	23