Dong Bian

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4323171/publications.pdf

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19	846	567281 15	839539 18
papers	citations	h-index	g-index

20	20	20	935
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fluorescent In Situ 3D Visualization of Dynamic Corrosion Processes of Magnesium Alloys. ACS Applied Bio Materials, 2022, 5, 2340-2346.	4.6	2
2	Degradation behaviors and in-vivo biocompatibility of a rare earth- and aluminum-free magnesium-based stent. Acta Biomaterialia, 2021, 124, 382-397.	8.3	18
3	PDLLA-Zn-nitrided Fe bioresorbable scaffold with 53-Î¼m-thick metallic struts and tunable multistage biodegradation function. Science Advances, 2021, 7, .	10.3	31
4	Biomimetic Tiâ€“6Alâ€“4V alloy/gelatin methacrylate hybrid scaffold with enhanced osteogenic and angiogenic capabilities for large bone defect restoration. Bioactive Materials, 2021, 6, 3437-3448.	15.6	43
5	Biomimicking Boneâ€“Implant Interface Facilitates the Bioadaption of a New Degradable Magnesium Alloy to the Bone Tissue Microenvironment. Advanced Science, 2021, 8, e2102035.	11.2	31
6	Comparative in vitro study on binary Mg-RE (Sc, Y, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb and Lu) alloy systems. Acta Biomaterialia, 2020, 102, 508-528.	8.3	135
7	In vivo studies on Mg-1Sc alloy for orthopedic application: A 5-months evaluation in rabbits. Materials Letters, 2020, 262, 127130.	2.6	6
8	Magnetic resonance (MR) safety and compatibility of a novel iron bioresorbable scaffold. Bioactive Materials, 2020, 5, 260-274.	15.6	18
9	Predicting the degradation behavior of magnesium alloys with a diffusion-based theoretical model and in vitro corrosion testing. Journal of Materials Science and Technology, 2019, 35, 1393-1402.	10.7	23
10	In vitro and in vivo studies of Mg-30Sc alloys with different phase structure for potential usage within bone. Acta Biomaterialia, 2019, 98, 50-66.	8.3	62
11	In Vitro and in Vivo Studies on Biomedical Magnesium Low-Alloying with Elements Gadolinium and Zinc for Orthopedic Implant Applications. ACS Applied Materials & Interfaces, 2018, 10, 4394-4408.	8.0	82
12	In vitro characterization of ZM21 mini-tube used for biodegradable metallic stent. Materials Letters, 2018, 211, 261-265.	2.6	7
13	Development of magnesium-based biodegradable metals with dietary trace element germanium as orthopaedic implant applications. Acta Biomaterialia, 2017, 64, 421-436.	8.3	81
14	Study on the Mg-Li-Zn ternary alloy system with improved mechanical properties, good degradation performance and different responses to cells. Acta Biomaterialia, 2017, 62, 418-433.	8.3	65
15	Fatigue behaviors of HP-Mg, Mgâ€“Ca and Mgâ€“Znâ€“Ca biodegradable metals in air and simulated body fluid. Acta Biomaterialia, 2016, 41, 351-360.	8.3	95
16	Feâ€“Au and Feâ€“Ag composites as candidates for biodegradable stent materials. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 225-240.	3.4	87
17	Fabrication, Testing and Performance of Rare Earth-Containing Magnesium Biodegradable Metals. , 2016, , 315-316.		0
18	Influence of biocompatible metal ions (Ag, Fe, Y) on the surface chemistry, corrosion behavior and cytocompatibility of Mgâ€“1Ca alloy treated with MEVVA. Colloids and Surfaces B: Biointerfaces, 2015, 133, 99-107.	5.0	23

#	Article	IF	Citations
19	A Comparative inÂvitro Study on Biomedical Zrâ€“2.5X (XÂ=ÂNb, Sn) Alloys. Journal of Materials Science and Technology, 2014, 30, 299-306.	10.7	37