# 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 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | Development of magnesium-based biodegradable metals with dietary trace element germanium as orthopaedic implant applications. Acta Biomaterialia, 2017, 64, 421-436. | 8.3 | 81 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | PDLLA-Zn-nitrided Fe bioresorbable scaffold with 53-Î¼m-thick metallic struts and tunable multistage biodegradation function. Science Advances, 2021, 7, . | 10.3 | 31 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | Magnetic resonance (MR) safety and compatibility of a novel iron bioresorbable scaffold. Bioactive Materials, 2020, 5, 260-274. | 15.6 | 18 |
| 15 | 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 |
| 16 | In vitro characterization of ZM21 mini-tube used for biodegradable metallic stent. Materials Letters, 2018, 211, 261-265. | 2.6 | 7 |
| 17 | In vivo studies on Mg-1Sc alloy for orthopedic application: A 5-months evaluation in rabbits. Materials Letters, 2020, 262, 127130. | 2.6 | 6 |
| 18 | Fluorescent In Situ 3D Visualization of Dynamic Corrosion Processes of Magnesium Alloys. ACS Applied Bio Materials, 2022, 5, 2340-2346. | 4.6 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Fabrication, Testing and Performance of Rare Earth-Containing Magnesium Biodegradable Metals. , 2016, , 315-316. | | 0 |