

CITATION REPORT

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A surface-engineered multifunctional TiO based nano-layer simultaneously elevates the corrosion resistance, osteoconductivity and antimicrobial property of a magnesium alloy

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#	Paper	IF	Citations
30	In vitro degradation and mechanical behaviour of calcium phosphate coated Mg-Ca alloy. <i>Materials Technology</i> , 2020 , 1-9	2.1	3
29	Tissue Engineering and Regenerative Medicine: Achievements, Future, and Sustainability in Asia. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 83	5.8	53
28	Unexpected cytotoxicity of TiO ₂ -coated magnesium alloys. <i>Materials Letters</i> , 2020 , 276, 128236	3.3	2
27	Improving the in vitro cell differentiation and in vivo osseointegration of titanium dental implant through oxygen plasma immersion ion implantation treatment. <i>Surface and Coatings Technology</i> , 2020 , 399, 126125	4.4	18
26	Protection of magnesium alloys: From physical barrier coating to smart self-healing coating. <i>Journal of Alloys and Compounds</i> , 2021 , 853, 157010	5.7	40
25	Construction of Chi(Zn/BMP2)/HA composite coating on AZ31B magnesium alloy surface to improve the corrosion resistance and biocompatibility. <i>Nanotechnology Reviews</i> , 2021 , 10, 870-882	6.3	0
24	Does acid pickling of Mg-Ca alloy enhance biomineralization?. <i>Journal of Magnesium and Alloys</i> , 2021 , 9, 1028-1028	8.8	4
23	Biodegradable magnesium-based biomaterials: An overview of challenges and opportunities. <i>MedComm</i> , 2021 , 2, 123-144	2.2	17
22	Visual and antibacterial magnesium implants with low biocorrosion and bioactive surface for in vivo tracking and treating MRSA infection. <i>Chemical Engineering Journal</i> , 2021 , 417, 129198	14.7	1
21	Regulation of extracellular bioactive cations in bone tissue microenvironment induces favorable osteoimmune conditions to accelerate bone regeneration. <i>Bioactive Materials</i> , 2021 , 6, 2315-2330	16.7	23
20	Fabrication of GO-TiO ₂ /(Ca,Y)F ₂ :Tm,Yb composites with high-efficiency optical driving photocatalytic activity for degradation of organic dyes and bacteriostasis. <i>Rare Metals</i> , 1	5.5	1
19	Biological effects, applications and strategies of nanomodification of dental metal surfaces. <i>Materials and Design</i> , 2021 , 207, 109890	8.1	1
18	Corrosion resistance, antibacterial activity and drug release of ciprofloxacin-loaded micro-arc oxidation/silane coating on magnesium alloy AZ31. <i>Progress in Organic Coatings</i> , 2021 , 158, 106357	4.8	4
17	and antibacterial performance of Zr & O PIII magnesium alloys with high concentration of oxygen vacancies. <i>Bioactive Materials</i> , 2021 , 6, 3049-3061	16.7	4
16	Multifunctional antimicrobial materials: From rational design to biomedical applications. <i>Progress in Materials Science</i> , 2022 , 125, 100887	42.2	13
15	Degradability and in vivo biocompatibility of micro-alloyed Mg-Ca-La alloys as orthopedic implants. <i>Materials Letters</i> , 2022 , 310, 131510	3.3	0
14	Biodegradable Magnesium Biomaterials-Road to the Clinic.. <i>Bioengineering</i> , 2022 , 9,	5.3	1

13	Hybrid TiO ₂ /AgNPs/g-C ₃ N ₄ nanocomposite coatings on TC4 titanium alloy for enhanced synergistic antibacterial effect under full spectrum light. <i>Journal of Materials Science and Technology</i> , 2022 , 118, 35-43	9.1	0
12	Construction of a magnesium hydroxide/graphene oxide/hydroxyapatite composite coating on Mg-Ca-Zn-Ag alloy to inhibit bacterial infection and promote bone regeneration.. <i>Bioactive Materials</i> , 2022 , 18, 354-367	16.7	2
11	Improved corrosion resistance on Mg-2Ca alloy with TiO ₂ nanoparticles embedded in a polycaprolactone (PCL) coating. <i>Applied Surface Science Advances</i> , 2022 , 9, 100257	2.6	0
10	Corrosion, stress corrosion cracking and corrosion fatigue behavior of magnesium alloy bioimplants. <i>Corrosion Reviews</i> , 2022 ,	3.2	1
9	Effects of Zinc, Magnesium, and Iron Ions on Bone Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> ,	5.5	4
8	Ion-Implantation in Titania-Based Plasmonic Photo-anodes: A Review. 2022 , 9, 2200085		0
7	A review on magnesium alloys for biomedical applications. 10,		2
6	Assessment of Mg(OH) ₂ /TiO ₂ coating in the Mg-Ca-Zn alloy for improved corrosion resistance and antibacterial performance. 2022 ,		0
5	Dual-functional coatings on magnesium alloys: Enhancing corrosion behavior under stress and osteogenic effect in osteoporotic rats. 2023 , 30, 101723		0
4	Biodegradable Mg-Sc-Sr Alloy Improves Osteogenesis and Angiogenesis to Accelerate Bone Defect Restoration. 2022 , 13, 261		1
3	An osteogenic magnesium alloy with improved corrosion resistance, antibacterial, and mechanical properties for orthopedic applications.		0
2	Corrosion in Mg-alloy biomedical implants- the strategies to reduce the impact of the corrosion inflammatory reaction and microbial activity. 2022 ,		0
1	Novel Developments in Advanced Materials Fields: Porous and Non-Porous Biomaterials Used in Regenerative Medicine and Tissue Engineering. 2023 , 19, 42-52		0