Influence of biodegradable polymer coatings on corrosion, cytocompatibility and cell functionality of Mg-2.0Zn-0.98Mn magnesium alloy

DOI: 10.1016/j.colsurfb.2016.04.021
Colloids and Surfaces B: Biointerfaces, 2016, 144, 284-292.

#	Paper	IF	Citations
34	Controllable degradation of medical magnesium by electrodeposited composite films of mussel adhesive protein (Mefp-1) and chitosan. *Journal of Colloid and Interface Science*, **2016**, 478, 246-55	9.3	14
33	Comparison Study on Four Biodegradable Polymer Coatings for Controlling Magnesium Degradation and Human Endothelial Cell Adhesion and Spreading. *ACS Biomaterials Science and Engineering*, **2017**, 3, 936-950	5.5	40
32	Preparation and characterization of a calcium-phosphate-silicon coating on a Mg-Zn-Ca alloy via two-step micro-arc oxidation. *Physical Chemistry Chemical Physics*, **2017**, 19, 15110-15119	3.6	13
31	Poly (d/l) lactide/polycaprolactone/bioactive glasss nanocomposites materials for anterior cruciate ligament reconstruction screws: The effect of glass surface functionalization on mechanical properties and cell behaviors. *Materials Science and Engineering C*, **2017**, 77, 978-989	8.3	13
30	Influence of SaOS-2 cells on corrosion behavior of cast Mg-2.0Zn0.98Mn magnesium alloy. *Colloids and Surfaces B: Biointerfaces*, **2017**, 150, 288-296	6	10
29	Titanium dioxide coatings on magnesium alloys for biomaterials: A review. *DYNA (Colombia)*, **2017**, 84, 261-270	0.6	11
28	Enhanced performance of magnesium alloy for drug-eluting vascular scaffold application. *Applied Surface Science*, **2018**, 435, 320-328	6.7	11
27	Updates on the research and development of absorbable metals for biomedical applications. *Progress in Biomaterials*, **2018**, 7, 93-110	4.4	112
26	Surface modification of metallic bone implantsPolymer and polymer-assisted coating for bone in-growth. **2018**, 299-321		4
25	Mechanical and biocorrosive properties of magnesium-aluminum alloy scaffold for biomedical applications. *Journal of the Mechanical Behavior of Biomedical Materials*, **2019**, 98, 213-224	4.1	14
24	Preparation and characterization of a composite coating composed of polycaprolactone (PCL) and amorphous calcium carbonate (ACC) particles for enhancing corrosion resistance of magnesium implants. *Progress in Organic Coatings*, **2019**, 136, 105225	4.8	8
23	Mg-Zn-Mn alloy extract induces the angiogenesis of human umbilical vein endothelial cells via FGF/FGFR signaling pathway. *Biochemical and Biophysical Research Communications*, **2019**, 514, 618-624	3.4	7
22	In-Vivo Corrosion Characterization and Assessment of Absorbable Metal Implants. *Coatings*, **2019**, 9, 282	2.9	13
21	Effects of Strontium addition on microstructure, mechanical properties, corrosion properties and cytotoxicity of Mg1Zn1Mn alloy. *Materials Research Express*, **2019**, 6, 056556	1.7	7
20	Influence of duty cycle on properties of the superhydrophobic coating on an anodized magnesium alloy fabricated by pulse electrodeposition. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2019**, 568, 43-50	5.1	16
19	Fabrication, multi-scale characterization and in-vitro evaluation of porous hybrid bioactive glass polymer-coated scaffolds for bone tissue engineering. *Materials Science and Engineering C*, **2019**, 94, 516-523	8.3	17
18	Bio-inspired biomaterial Mg-Zn-Ca: a review of the main mechanical and biological properties of Mg-based alloys. *Biomedical Physics and Engineering Express*, **2020**, 6, 042001	1.5	4

17	Biological behavior exploration of a paclitaxel-eluting poly-l-lactide-coated Mg-Zn-Y-Nd alloy intestinal stent .. *RSC Advances*, **2020**, 10, 15079-15090	3.7	3
16	A composite coating with physical interlocking and chemical bonding on WE43 magnesium alloy for corrosion protection and cytocompatibility enhancement. *Surface and Coatings Technology*, **2021**, 412, 127078	4.4	6
15	Electrophoretically deposited high molecular weight chitosan/bioactive glass composite coatings on WE43 magnesium alloy. *Surface and Coatings Technology*, **2021**, 418, 127232	4.4	6
14	Bifunctional poly (l-lactic acid)/hydrophobic silica nanocomposite layer coated on magnesium stents for enhancing corrosion resistance and endothelial cell responses. *Materials Science and Engineering C*, **2021**, 127, 112239	8.3	1
13	Sustainable Coatings on Metallic Alloys as a Nowadays Challenge. *Sustainability*, **2021**, 13, 10217	3.6	1
12	Clinical translation and challenges of biodegradable magnesium-based interference screws in ACL reconstruction. *Bioactive Materials*, **2021**, 6, 3231-3243	16.7	5
11	A surface-eroding poly(1,3-trimethylene carbonate) coating for magnesium based cardiovascular stents with stable drug release and improved corrosion resistance. *Bioactive Materials*, **2022**, 7, 144-153	16.7	2
10	Engineering Nano-to-Micron-Patterned Polymer Coatings on Bioresorbable Magnesium for Controlling Human Endothelial Cell Adhesion and Morphology. *ACS Biomaterials Science and Engineering*, **2020**, 6, 3878-3898	5.5	6
9	Implantable Medical Devices and Tissue Engineering: An Overview of Manufacturing Processes and the Use of Polymeric Matrices for Manufacturing and Coating their Surfaces. *Current Medicinal Chemistry*, **2020**, 27, 1580-1599	4.3	8
8	Development of a Model System for Gas Cavity Formation Behavior of Magnesium Alloy Implantation. *ACS Biomaterials Science and Engineering*,	5.5	1
7	A biodegradable 3D woven magnesium-based scaffold for orthopedic implants. *Biofabrication*,	10.5	0
6	Cross-Disciplinary Application for Qualitative Magnesium Corrosion Assays. *Bioinorganic Chemistry and Applications*, **2022**, 2022, 1-10	4.2	
5	Biodegradation behavior of polymethyl methacrylate–bioactive glass 45S5 composite coated magnesium in simulated body fluid. **2022**, 32, 2216-2228		0
4	Strengthened corrosion control of biodegradable poly(trimethylene carbonate) coating on bioabsorbable Mg alloy by introducing graphene oxide. **2022**, 129052		0
3	Effect of PLGA+MAO composite coating on the degradation of magnesium alloy in vivo and in vitro. **2022**, 105197		0
2	Poly(lactic acid) coating with a silane transition layer on MgAl LDH-coated biomedical Mg alloys for enhanced corrosion and cytocompatibility. **2023**, 661, 130947		0
1	Microstructure evolution and corrosion properties of ECAPed Mg–Pb-9.2Al-0.8B alloys. **2023**, 24, 6048-6064		0