

# Strategies to improve the corrosion resistance of micro magnesium alloys for degradable implants: Prospects and

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Effect of current mode on PEO treatment of magnesium in Ca- and P-containing electrolyte and resulting coatings. <i>Applied Surface Science</i> , 2014, 316, 558-567.	3.1	93
2	In vitro corrosion of Mg-1.21Li-1.12Ca-1Y alloy. <i>Progress in Natural Science: Materials International</i> , 2014, 24, 492-499.	1.8	41
3	Dissolution and precipitation behaviors of silicon-containing ceramic coating on Mg-Zn-Ca alloy in simulated body fluid. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 122, 746-751.	2.5	28
4	Deposition of microarc oxidation-polycaprolactone duplex coating to improve the corrosion resistance of magnesium for biodegradable implants. <i>Thin Solid Films</i> , 2014, 562, 561-567.	0.8	61
5	Corrosion-Controlling and Osteo-Compatible Mg Ion-Integrated Phytic Acid (Mg-PA) Coating on Magnesium Substrate for Biodegradable Implants Application. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 19531-19543.	4.0	106
6	Formation Mechanism, Degradation Behavior, and Cytocompatibility of a Nanorod-Shaped HA and Pore-Sealed MgO Bilayer Coating on Magnesium. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 18258-18274.	4.0	77
7	Tailoring the composition of fluoride conversion coatings to achieve better corrosion protection of magnesium for biomedical applications. <i>Journal of Materials Chemistry B</i> , 2014, 2, 3365-3382.	2.9	49
8	Application of Voltage Pulse Transient Analysis during Plasma Electrolytic Oxidation for Assessment of Characteristics and Corrosion Behaviour of Ca- and P-containing Coatings on Magnesium. <i>Electrochimica Acta</i> , 2014, 149, 218-230.	2.6	83
9	In vitro degradation of MAO/PLA coating on Mg-1.21Li-1.12Ca-1.0Y alloy. <i>Frontiers of Materials Science</i> , 2014, 8, 343-353.	1.1	53
10	Spectrophotometric analysis to monitor the corrosion behaviour of magnesium during immersion corrosion testing: A suitable alternative to pH measurement?. <i>Corrosion Science</i> , 2014, 89, 338-342.	3.0	4
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13	Effect of mechanical alloying on the phase evolution, microstructure and bio-corrosion properties of a Mg/HA/TiO <sub>2</sub> /MgO nanocomposite. <i>Ceramics International</i> , 2014, 40, 16743-16759.	2.3	40
14	Aqueous Corrosion Behavior of Micro Arc Oxidation (MAO)-Coated Magnesium Alloys: A Critical Review. <i>Jom</i> , 2014, 66, 1045-1060.	0.9	34
15	Functional and smart coatings for corrosion protection: A review of recent advances. <i>Surface and Coatings Technology</i> , 2014, 258, 17-37.	2.2	808
16	Biomimetic porous scaffolds for bone tissue engineering. <i>Materials Science and Engineering Reports</i> , 2014, 80, 1-36.	14.8	854
17	Preliminary study on a bioactive Sr containing Ca-P coating on pure magnesium by a two-step procedure. <i>Surface and Coatings Technology</i> , 2014, 252, 79-86.	2.2	24
18	Spectroscopic study of plasma during electrolytic oxidation of magnesium-aluminium alloys. <i>Journal of Physics: Conference Series</i> , 2014, 565, 012013.	0.3	3

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70	Investigation of absorptance and emissivity of thermal control coatings on Mg-Li alloys and OES analysis during PEO process. <i>Scientific Reports</i> , 2016, 6, 29563.	1.6	19
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113	Structure and properties of newly designed MAO/TiN coating on AZ31B Mg alloy. <i>Surface and Coatings Technology</i> , 2017, 328, 319-325.	2.2	18
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123	Electrochemical Performance Estimation of Anodized AZ31B Magnesium Alloy as Function of Change in the Current Density. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 3710-3718.	1.2	7
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