

# Aydin Bordbar-Khiabani

## List of Publications by Year in descending order

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28  
papers

1,121  
citations

331259

21  
h-index

525886

27  
g-index

28  
all docs

28  
docs citations

28  
times ranked

865  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced corrosion resistance and in-vitro biodegradation of plasma electrolytic oxidation coatings prepared on AZ91 Mg alloy using ZnO nanoparticles-incorporated electrolyte. <i>Surface and Coatings Technology</i> , 2019, 360, 153-171.	2.2	119
2	Smart Hydrogels for Advanced Drug Delivery Systems. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3665.	1.8	99
3	Three-phase PANI@nano-Fe <sub>3</sub> O <sub>4</sub> @CFs heterostructure: Fabrication, characterization and investigation of microwave absorption and EMI shielding of PANI@nano-Fe <sub>3</sub> O <sub>4</sub> @CFs/epoxy hybrid composite. <i>Composites Science and Technology</i> , 2017, 150, 65-78.	3.8	97
4	Highly corrosion protection properties of plasma electrolytic oxidized titanium using rGO nanosheets. <i>Applied Surface Science</i> , 2019, 486, 153-165.	3.1	72
5	Corrosion behavior and in-vitro bioactivity of porous Mg/Al <sub>2</sub> O <sub>3</sub> and Mg/Si <sub>3</sub> N <sub>4</sub> metal matrix composites fabricated using microwave sintering process. <i>Materials Chemistry and Physics</i> , 2019, 225, 331-339.	2.0	59
6	Improved corrosion performance of biodegradable magnesium in simulated inflammatory condition via drug-loaded plasma electrolytic oxidation coatings. <i>Materials Chemistry and Physics</i> , 2020, 239, 122003.	2.0	52
7	Fabrication of a ternary PANI@Fe <sub>3</sub> O <sub>4</sub> @CFs nanocomposite as a high performance electrode for solid-state supercapacitors. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 26794-26806.	3.8	47
8	Improving corrosion behavior and in vitro bioactivity of plasma electrolytic oxidized AZ91 magnesium alloy using calcium fluoride containing electrolyte. <i>Materials Letters</i> , 2018, 212, 98-102.	1.3	45
9	Improvement in magnetic and microwave absorption properties of nano-Fe <sub>3</sub> O <sub>4</sub> @CFs composites using a modified multi-step EPD process. <i>Applied Surface Science</i> , 2017, 420, 726-739.	3.1	41
10	Electrophoretic deposition of graphene oxide on plasma electrolytic oxidized-magnesium implants for bone tissue engineering applications. <i>Materials Today: Proceedings</i> , 2018, 5, 15603-15612.	0.9	40
11	Emerging magnesium-based biomaterials for orthopedic implantation. <i>Emerging Materials Research</i> , 2019, 8, 305-319.	0.4	38
12	Effect of ZnO pore-sealing layer on anti-corrosion and in-vitro bioactivity behavior of plasma electrolytic oxidized AZ91 magnesium alloy. <i>Materials Letters</i> , 2020, 258, 126779.	1.3	38
13	In-vitro corrosion and bioactivity behavior of tailored calcium phosphate-containing zinc oxide coating prepared by plasma electrolytic oxidation. <i>Corrosion Science</i> , 2020, 173, 108781.	3.0	37
14	Immobilization of rGO/ZnO hybrid composites on the Zn substrate for enhanced photocatalytic activity and corrosion stability. <i>Journal of Alloys and Compounds</i> , 2020, 845, 156219.	2.8	35
15	Plasma electrolytic oxidation of monocrystalline silicon using silicate electrolyte containing boric acid. <i>Applied Surface Science</i> , 2018, 462, 913-922.	3.1	34
16	Electrophoretic deposition of spherical carbonyl iron particles on carbon fibers as a microwave absorbent composite. <i>Surfaces and Interfaces</i> , 2016, 5, 1-7.	1.5	32
17	Improving optoelectrical properties of photoactive anatase TiO <sub>2</sub> coating using rGO incorporation during plasma electrolytic oxidation. <i>Ceramics International</i> , 2019, 45, 1746-1754.	2.3	30
18	Functional PEO layers on magnesium alloys: innovative polymer-free drug-eluting stents. <i>Surface Innovations</i> , 2018, 6, 237-243.	1.4	29

#	ARTICLE	IF	CITATIONS
19	Advanced surface treatment techniques counteract biofilm-associated infections on dental implants. <i>Materials Research Express</i> , 2020, 7, 015417.	0.8	29
20	The competitive mechanism of plasma electrolyte oxidation for the formation of magnesium oxide bioceramic coatings. <i>Materials Today: Proceedings</i> , 2018, 5, 15677-15685.	0.9	25
21	Surface functionalization of anodized tantalum with Mn <sub>3</sub> O <sub>4</sub> nanoparticles for effective corrosion protection in simulated inflammatory condition. <i>Ceramics International</i> , 2022, 48, 3148-3156.	2.3	22
22	Additive Manufacturing: An Opportunity for the Fabrication of Near-Net-Shape NiTi Implants. <i>Journal of Manufacturing and Materials Processing</i> , 2022, 6, 65.	1.0	20
23	Comparison of corrosion and antibacterial properties of Al alloy treated by plasma electrolytic oxidation and anodizing methods. <i>Materials Today: Proceedings</i> , 2018, 5, 15667-15676.	0.9	19
24	Effects of co-incorporated ternary elements on biocorrosion stability, antibacterial efficacy, and cytotoxicity of plasma electrolytic oxidized titanium for implant dentistry. <i>Materials Chemistry and Physics</i> , 2022, 276, 125436.	2.0	19
25	Enhanced optoelectronic performance of plasma electrolytic oxidized monocrystalline silicon using rGO incorporation. <i>Materials Letters</i> , 2019, 239, 151-154.	1.3	16
26	Surface and structure characteristics of commercial K-Feldspar powders: Effects of temperature and leaching media. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 307-317.	1.7	15
27	In situ synthesis of leucite-based feldspathic dental porcelain with minor kalsilite and Fe <sub>2</sub> O <sub>3</sub> impurities. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 552-561.	1.1	9
28	Experimental procedures for assessing electrical and thermal conductivity of polyaniline. , 2019, , 227-258.		3