Benyamin Yarmand

List of Publications by Year
in descending order

31 papers	884 citations	394421 19 h-index	477307 29 g-index
31 all docs	31 docs citations	31 times ranked	597 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. Surface and Coatings Technology, 2019, 360, 153-171.	4.8	119
2	Highly corrosion protection properties of plasma electrolytic oxidized titanium using rGO nanosheets. Applied Surface Science, 2019, 486, 153-165.	6.1	72
3	Improved corrosion performance of biodegradable magnesium in simulated inflammatory condition via drug-loaded plasma electrolytic oxidation coatings. Materials Chemistry and Physics, 2020, 239, 122003.	4.0	52
4	Enhanced optoelectrical properties of Mn-doped ZnS films deposited by spray pyrolysis for ultraviolet detection applications. Thin Solid Films, 2019, 676, 31-41.	1.8	46
5	Improving corrosion behavior and in vitro bioactivity of plasma electrolytic oxidized AZ91 magnesium alloy using calcium fluoride containing electrolyte. Materials Letters, 2018, 212, 98-102.	2.6	45
6	Electrophoretic deposition of graphene oxide on plasma electrolytic oxidized-magnesium implants for bone tissue engineering applications. Materials Today: Proceedings, 2018, 5, 15603-15612.	1.8	40
7	Emerging magnesium-based biomaterials for orthopedic implantation. Emerging Materials Research, 2019, 8, 305-319.	0.7	38
8	Effect of ZnO pore-sealing layer on anti-corrosion and in-vitro bioactivity behavior of plasma electrolytic oxidized AZ91 magnesium alloy. Materials Letters, 2020, 258, 126779.	2.6	38
9	In-vitro corrosion and bioactivity behavior of tailored calcium phosphate-containing zinc oxide coating prepared by plasma electrolytic oxidation. Corrosion Science, 2020, 173, 108781.	6.6	37
10	Immobilization of rGO/ZnO hybrid composites on the Zn substrate for enhanced photocatalytic activity and corrosion stability. Journal of Alloys and Compounds, 2020, 845, 156219.	5.5	35
11	Plasma electrolytic oxidation of monocrystalline silicon using silicate electrolyte containing boric acid. Applied Surface Science, 2018, 462, 913-922.	6.1	34
12	Improving optoelectrical properties of photoactive anatase TiO2 coating using rGO incorporation during plasma electrolytic oxidation. Ceramics International, 2019, 45, 1746-1754.	4.8	30
13	Functional PEO layers on magnesium alloys: innovative polymer-free drug-eluting stents. Surface Innovations, 2018, 6, 237-243.	2.3	29
14	The competitive mechanism of plasma electrolyte oxidation for the formation of magnesium oxide bioceramic coatings. Materials Today: Proceedings, 2018, 5, 15677-15685.	1.8	25
15	Improved in-vitro corrosion performance of titanium using a duplex system of plasma electrolytic oxidation and graphene oxide incorporated silane coatings. Surface and Coatings Technology, 2021, 422, 127558.	4.8	25
16	Synthesis of a novel dexamethasone intercalated layered double hydroxide nanohybrids and their deposition on anodized titanium nanotubes for drug delivery purposes. Journal of Solid State Chemistry, 2019, 271, 144-153.	2.9	23
17	Solvothermal growth of aligned SnxZn1-xS thin films for tunable and highly response self-powered UV detectors. Journal of Alloys and Compounds, 2020, 827, 154246.	5.5	23
18	Optimized optical band gap energy and Urbach tail of Cr2S3 thin films by Sn incorporation for optoelectronic applications. Physica B: Condensed Matter, 2020, 593, 412292.	2.7	21

#	Article	IF	Citations
19	Comparison of corrosion and antibacterial properties of Al alloy treated by plasma electrolytic oxidation and anodizing methods. Materials Today: Proceedings, 2018, 5, 15667-15676.	1.8	19
20	Enhanced optical properties of ZnSâ€“rGO nanocomposites for ultraviolet detection applications. Ceramics International, 2018, 44, 17878-17884.	4.8	19
21	Effects of co-incorporated ternary elements on biocorrosion stability, antibacterial efficacy, and cytotoxicity of plasma electrolytic oxidized titanium for implant dentistry. Materials Chemistry and Physics, 2022, 276, 125436.	4.0	19
22	Enhanced optoelectronic performance of plasma electrolytic oxidized monocrystalline silicon using rGO incorporation. Materials Letters, 2019, 239, 151-154.	2.6	16
23	High-performance UV-B detectors based on MnxZn1-xS thin films modified by bandgap engineering. Sensors and Actuators A: Physical, 2020, 303, 111832.	4.1	16
24	Inhibitory effects of hematite nanoparticles on corrosion protection function of TiO2 coating prepared by plasma electrolytic oxidation. Surface and Coatings Technology, 2021, 409, 126938.	4.8	15
25	Morphology engineering and growth mechanism of ZnS nanostructures synthesized by solvothermal process. Journal of Nanoparticle Research, 2019, 21, 1.	1.9	14
26	Immobilization of Fe2O3/TiO2 photocatalyst on the metallic substrate via plasma electrolytic oxidation process: degradation efficiency. Journal of Nanoparticle Research, 2020, 22, 1.	1.9	12
27	Effect of temperature-dependent phase transformation on UV detection properties of zinc sulfide nanocrystals. Materials Research Express, 2019, 6, 085096.	1.6	10
28	Modification of the structural and optical properties of Fe-doped SnS₂ thin film. Materials Research Express, 2019, 6, 025908.	1.6	8
29	Tunable and high-performance self-powered ultraviolet detectors using leaf-like nanostructural arrays in ternary tin zinc sulfide system. Microelectronics Journal, 2021, 116, 105237.	2.0	3
30	Effects of process parameters on structure and corrosion behavior of PEO coated A356 alloy. Surface Topography: Metrology and Properties, 2020, 8, 045020.	1.6	1
31	Investigation of water content in electrolyte solution on electrochromic properties of WO3 thin Films. Iranian Journal of Physics Research, 2017, 17, 113-119.	0.0	0