

Benyamin Yarmand

List of Publications by Year in descending order

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31
papers

884
citations

394421

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477307

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all docs

31
docs citations

31
times ranked

597
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	4.0	19
2	Inhibitory effects of hematite nanoparticles on corrosion protection function of TiO ₂ coating prepared by plasma electrolytic oxidation. <i>Surface and Coatings Technology</i> , 2021, 409, 126938.	4.8	15
3	Improved in-vitro corrosion performance of titanium using a duplex system of plasma electrolytic oxidation and graphene oxide incorporated silane coatings. <i>Surface and Coatings Technology</i> , 2021, 422, 127558.	4.8	25
4	Tunable and high-performance self-powered ultraviolet detectors using leaf-like nanostructural arrays in ternary tin zinc sulfide system. <i>Microelectronics Journal</i> , 2021, 116, 105237.	2.0	3
5	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.	2.6	38
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.	4.0	52
7	Immobilization of Fe ₂ O ₃ /TiO ₂ photocatalyst on the metallic substrate via plasma electrolytic oxidation process: degradation efficiency. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	1.9	12
8	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.	6.6	37
9	Optimized optical band gap energy and Urbach tail of Cr ₂ S ₃ thin films by Sn incorporation for optoelectronic applications. <i>Physica B: Condensed Matter</i> , 2020, 593, 412292.	2.7	21
10	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.	5.5	35
11	Solvothermal growth of aligned Sn _x Zn _{1-x} S thin films for tunable and highly response self-powered UV detectors. <i>Journal of Alloys and Compounds</i> , 2020, 827, 154246.	5.5	23
12	High-performance UV-B detectors based on Mn _x Zn _{1-x} S thin films modified by bandgap engineering. <i>Sensors and Actuators A: Physical</i> , 2020, 303, 111832.	4.1	16
13	Effects of process parameters on structure and corrosion behavior of PEO coated A356 alloy. <i>Surface Topography: Metrology and Properties</i> , 2020, 8, 045020.	1.6	1
14	Effect of temperature-dependent phase transformation on UV detection properties of zinc sulfide nanocrystals. <i>Materials Research Express</i> , 2019, 6, 085096.	1.6	10
15	Emerging magnesium-based biomaterials for orthopedic implantation. <i>Emerging Materials Research</i> , 2019, 8, 305-319.	0.7	38
16	Highly corrosion protection properties of plasma electrolytic oxidized titanium using rGO nanosheets. <i>Applied Surface Science</i> , 2019, 486, 153-165.	6.1	72
17	Enhanced optoelectrical properties of Mn-doped ZnS films deposited by spray pyrolysis for ultraviolet detection applications. <i>Thin Solid Films</i> , 2019, 676, 31-41.	1.8	46
18	Morphology engineering and growth mechanism of ZnS nanostructures synthesized by solvothermal process. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	1.9	14

#	ARTICLE	IF	CITATIONS
19	Enhanced optoelectronic performance of plasma electrolytic oxidized monocrystalline silicon using rGO incorporation. <i>Materials Letters</i> , 2019, 239, 151-154.	2.6	16
20	Modification of the structural and optical properties of Fe-doped SnS ₂ thin film. <i>Materials Research Express</i> , 2019, 6, 025908.	1.6	8
21	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.	4.8	119
22	Synthesis of a novel dexamethasone intercalated layered double hydroxide nanohybrids and their deposition on anodized titanium nanotubes for drug delivery purposes. <i>Journal of Solid State Chemistry</i> , 2019, 271, 144-153.	2.9	23
23	Improving optoelectrical properties of photoactive anatase TiO ₂ coating using rGO incorporation during plasma electrolytic oxidation. <i>Ceramics International</i> , 2019, 45, 1746-1754.	4.8	30
24	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.	2.6	45
25	The competitive mechanism of plasma electrolyte oxidation for the formation of magnesium oxide bioceramic coatings. <i>Materials Today: Proceedings</i> , 2018, 5, 15677-15685.	1.8	25
26	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.	1.8	40
27	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.	1.8	19
28	Enhanced optical properties of ZnS@rGO nanocomposites for ultraviolet detection applications. <i>Ceramics International</i> , 2018, 44, 17878-17884.	4.8	19
29	Plasma electrolytic oxidation of monocrystalline silicon using silicate electrolyte containing boric acid. <i>Applied Surface Science</i> , 2018, 462, 913-922.	6.1	34
30	Functional PEO layers on magnesium alloys: innovative polymer-free drug-eluting stents. <i>Surface Innovations</i> , 2018, 6, 237-243.	2.3	29
31	Investigation of water content in electrolyte solution on electrochromic properties of WO ₃ thin Films. <i>Iranian Journal of Physics Research</i> , 2017, 17, 113-119.	0.0	0