Soheil Mahdavi

List of Publications by Year
in descending order

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Version: 2024-02-01

29 papers	840 citations	516710 16 h-index	501196 28 g-index
29 all docs	29 docs citations	29 times ranked	639 citing authors

#	Article	IF	Citations
1	Effect of the Graphite Content on the Tribological Behavior of Al/Gr and Al/30SiC/Gr Composites Processed by In Situ Powder Metallurgy (IPM) Method. Tribology Letters, 2011, 44, 1-12.	2.6	148
2	Effect of SiC content on the processing, compaction behavior, and properties of Al6061/SiC/Gr hybrid composites. Journal of Materials Science, 2011, 46, 1502-1511.	3.7	80
3	Electrodeposited Ni-Co alloy-particle composite coatings: A comprehensive review. Surface and Coatings Technology, 2020, 382, 125153.	4.8	66
4	Composition, characteristics and tribological behavior of Cr, Coâ€“Cr and Coâ€“Cr/TiO 2 nano-composite coatings electrodeposited from trivalent chromium based baths. Journal of Alloys and Compounds, 2015, 635, 150-157.	5.5	54
5	Fabrication of Al/Al2O3 composites by in-situ powder metallurgy (IPM). Powder Technology, 2012, 229, 276-284.	4.2	52
6	Ceramic nanoparticles addition in pure copper plate: FSP approach, microstructure evolution and texture study using EBSD. Ceramics International, 2018, 44, 3128-3133.	4.8	49
7	Corrosion and tribological behavior of Niâ€“Cr alloy coatings electrodeposited on low carbon steel in Cr (III)â€“Ni (II) bath. Surface and Coatings Technology, 2015, 281, 144-149.	4.8	36
8	Characteristics of electrodeposited cobalt and titania nano-reinforced cobalt composite coatings. Surface and Coatings Technology, 2013, 232, 198-203.	4.8	29
9	Corrosion behaviour of electrodeposited nanocrystalline Co and Co/ZrO₂ nanocomposite coatings. Surface Engineering, 2015, 31, 251-257.	2.2	29
10	Coâ€“P alloy matrix composite deposits reinforced by nano-MoS2 solid lubricant: An alternative tribological coating to hard chromium coatings. Tribology International, 2021, 159, 106956.	5.9	26
11	Cobalt/graphene electrodeposits: Characteristics, tribological behavior, and corrosion properties. Surface and Coatings Technology, 2020, 385, 125418.	4.8	25
12	Fabrication and characteristics of Al6061/SiC/Gr hybrid composites processed by in situ powder metallurgy method. Journal of Composite Materials, 2013, 47, 437-447.	2.4	23
13	Tribological behavior of cobalt/graphene composite coatings. Ceramics International, 2020, 46, 16886-16894.	4.8	21
14	Characteristics and tribological behavior of the hard anodized 6061-T6 Al alloy. Journal of Alloys and Compounds, 2020, 842, 155988.	5.5	20
15	Effect of alumina particle size on characteristics, corrosion, and tribological behavior of Co/Al2O3 composite coatings. Ceramics International, 2020, 46, 5351-5359.	4.8	19
16	Biocompatibility and drug delivery efficiency of PEG-b-PCL/hydroxyapatite bilayer coatings on Nitinol superelastic alloy. Ceramics International, 2020, 46, 12711-12717.	4.8	18
17	Effect of bath composition and pulse electrodeposition condition on characteristics and microhardness of cobalt coatings. Transactions of Nonferrous Metals Society of China, 2018, 28, 2017-2027.	4.2	17
18	Modification of microstructure, hardness, and wear characteristics of an automotive-grade Al-Si alloy after friction stir processing. Journal of Adhesion Science and Technology, 2021, 35, 2696-2709.	2.6	17

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19	Effect of pH, Surfactant, and Heat Treatment on Morphology, Structure, and Hardness of Electrodeposited Co-P Coatings. Journal of Materials Engineering and Performance, 2015, 24, 3209-3217.	2.5	16
20	Tribological and corrosion behavior of electrochemically deposited Co/TiO2 micro/nano-composite coatings. Surface and Coatings Technology, 2021, 423, 127591.	4.8	16
21	Wear and corrosion of Co-Cr coatings electrodeposited from a trivalent chromium solution: Effect of heat treatment temperature. Surface and Coatings Technology, 2021, 422, 127535.	4.8	13
22	The microstructural features and corrosion behavior of Hydroxyapatite/ZnO nanocomposite electrodeposit on NiTi alloy: Effect of current density. Ceramics International, 2022, 48, 2191-2202.	4.8	12
23	Enhanced bioactivity of 316L stainless steel with deposition of polypyrrole/hydroxyapatite layered hybrid coating: Orthopedic applications. Surfaces and Interfaces, 2022, 28, 101604.	3.0	10
24	Deposition, Characterization and Evaluation of Monolayer and Multilayer Ni, Niâ€“P and Niâ€“Pâ€“Nano ZnOp Coatings. Transactions of the Indian Institute of Metals, 2018, 71, 1301-1309.	1.5	9
25	The study of morphological evolution, biocorrosion resistance, and bioactivity of pulse electrochemically deposited Hydroxyapatite/ZnO composite on NiTi superelastic alloy. Surface and Coatings Technology, 2021, 423, 127628.	4.8	9
26	Characteristics and properties of Coâ€“Cr alloy coatings prepared by electrodeposition. Surface Engineering, 2020, 36, 966-974.	2.2	8
27	Characteristics and properties of Cu/nano-SiC and Cu/nano-SiC/graphite hybrid composite coatings produced by pulse electrodeposition technique. Canadian Metallurgical Quarterly, 2018, 57, 358-366.	1.2	7
28	Characteristics and corrosion behavior of as-deposited and heat-treated Coâ€“Cr/ZrO2 coatings electrodeposited from Cr(III) baths. Materials Chemistry and Physics, 2021, 272, 125030.	4.0	7
29	Effect of PTFE on characteristics, corrosion, and tribological behavior of Znâ€“Ni electrodeposits. Surface Topography: Metrology and Properties, 2020, 8, 045013.	1.6	4