

Saeed R Allahkaram

List of Publications by Year in descending order

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times ranked

1487
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#	ARTICLE	IF	CITATIONS
1	Corrosion resistance enhancement of Niâ€P electroless coatings by incorporation of nano-SiO ₂ particles. <i>Materials & Design</i> , 2011, 32, 133-138.	5.1	133
2	The effects of temperature and pH on the characteristics of corrosion product in CO ₂ corrosion of grade X70 steel. <i>Materials & Design</i> , 2010, 31, 3559-3563.	5.1	112
3	An investigation on effects of heat treatment on corrosion properties of Niâ€P electroless nano-coatings. <i>Materials & Design</i> , 2010, 31, 3174-3179.	5.1	111
4	Formation mechanism and surface characterization of ceramic composite coatings on pure titanium prepared by micro-arc oxidation in electrolytes containing nanoparticles. <i>Surface and Coatings Technology</i> , 2016, 291, 396-405.	4.8	90
5	Effect of incorporation of nanoparticles with different composition on wear and corrosion behavior of ceramic coatings developed on pure titanium by micro arc oxidation. <i>Surface and Coatings Technology</i> , 2017, 309, 767-778.	4.8	80
6	Properties of Al ₂ O ₃ nano-particle reinforced copper matrix composite coatings prepared by pulse and direct current electroplating. <i>Materials & Design</i> , 2011, 32, 4478-4484.	5.1	78
7	Evaluation of corrosion behaviour of Pb-Co ₃ O ₄ electrodeposited coating using EIS method. <i>Corrosion Science</i> , 2019, 157, 472-480.	6.6	78
8	Effect of surfactant on the fabrication and characterization of Ni-P-CNT composite coatings. <i>Journal of Alloys and Compounds</i> , 2011, 509, 1836-1840.	5.5	74
9	Characterization and corrosion behavior of electroless Niâ€P/nano-SiC coating inside the CO ₂ containing media in the presence of acetic acid. <i>Materials & Design</i> , 2011, 32, 750-755.	5.1	70
10	Corrosion and wear behavior of an electroless Ni-P/nano-SiC coating on AZ31 Mg alloy obtained through environmentally-friendly conversion coating. <i>Surface and Coatings Technology</i> , 2020, 382, 125156.	4.8	66
11	An investigation on corrosion resistance of as-applied and heat treated Niâ€P/nanoSiC coatings. <i>Materials & Design</i> , 2009, 30, 4450-4453.	5.1	65
12	Investigation on corrosion rate and a novel corrosion criterion for gas pipelines affected by dynamic stray current. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 26, 453-460.	4.4	64
13	Deposition, characterization and electrochemical evaluation of Niâ€Pâ€nano diamond composite coatings. <i>Applied Surface Science</i> , 2012, 258, 4574-4580.	6.1	57
14	Composition, characteristics and tribological behavior of Cr, Coâ€Cr and Coâ€Cr/TiO ₂ nano-composite coatings electrodeposited from trivalent chromium based baths. <i>Journal of Alloys and Compounds</i> , 2015, 635, 150-157.	5.5	54
15	Comparative study on structure, corrosion properties and tribological behavior of pure Zn and different Zn-Ni alloy coatings. <i>Materials Chemistry and Physics</i> , 2016, 183, 263-272.	4.0	49
16	Effects of working temperature and carbon diffusion on the microstructure of high pressure heat-resistant stainless steel tubes used in pyrolysis furnaces during service condition. <i>Materials & Design</i> , 2012, 34, 65-73.	5.1	43
17	Corrosion and tribological behavior of Niâ€Cr alloy coatings electrodeposited on low carbon steel in Cr (III)â€Ni (II) bath. <i>Surface and Coatings Technology</i> , 2015, 281, 144-149.	4.8	36
18	A comprehensive study on the inhibition behaviour of four carboxylate-based corrosion inhibitors focusing on efficiency drop after the optimum concentration for carbon steel in the simulated concrete pore solution. <i>Construction and Building Materials</i> , 2021, 296, 123702.	7.2	33

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19	Electrodeposition and characterization of Co@BN (h) nanocomposite coatings. Applied Surface Science, 2013, 276, 174-181.	6.1	32
20	Simulation of cathodic protection potential distributions on oil well casings. Journal of Petroleum Science and Engineering, 2010, 72, 215-219.	4.2	31
21	Optimization of plasma electrolyte oxidation process parameters for corrosion resistance of Mg alloy. Journal of Magnesium and Alloys, 2020, 8, 431-440.	11.9	30
22	The effect of acetic acid on the CO ₂ corrosion of grade X70 steel. Materials & Design, 2010, 31, 4290-4295.	5.1	29
23	Characteristics of electrodeposited cobalt and titania nano-reinforced cobalt composite coatings. Surface and Coatings Technology, 2013, 232, 198-203.	4.8	29
24	Effects of phosphorus content on corrosion behavior of trivalent chromium coatings in 3.5wt.% NaCl solution. Surface and Coatings Technology, 2014, 244, 158-165.	4.8	29
25	Corrosion behaviour of electrodeposited nanocrystalline Co and Co/ZrO ₂ nanocomposite coatings. Surface Engineering, 2015, 31, 251-257.	2.2	29
26	Characterization of PbO ₂ coating electrodeposited onto stainless steel 316L substrate for using as PEMFC's bipolar plates. Surface and Coatings Technology, 2013, 236, 341-346.	4.8	27
27	Failure analysis of heat exchanger tubes of four gas coolers. Engineering Failure Analysis, 2011, 18, 1108-1114.	4.0	23
28	Investigation of weldability and property changes of high pressure heat-resistant cast stainless steel tubes used in pyrolysis furnaces after a five-year service. Materials & Design, 2012, 33, 476-484.	5.1	22
29	Optimization of nano HA-SiC coating on AISI 316L medical grade stainless steel via electrophoretic deposition. Materials Letters, 2021, 285, 129097.	2.6	22
30	Porosity measurement of electroless Ni@P coatings reinforced by CNT or SiC particles. Surface Engineering, 2012, 28, 400-405.	2.2	21
31	Study on corrosion behavior of nano-structured coatings developed on biodegradable as cast Mg@Zn@Ca alloy by plasma electrolyte oxidation. Surface and Coatings Technology, 2018, 347, 225-234.	4.8	21
32	Effect of phosphorous content and heat treatment on the structure, hardness and wear behavior of Co-P coatings. Wear, 2019, 422-423, 35-43.	3.1	21
33	Preparation of PEO coating on Ti6Al4V in different electrolytes and evaluation of its properties. Surface Engineering, 2016, 32, 448-456.	2.2	20
34	An investigation on cavitation-corrosion behavior of Ni/β ₂ -SiC nanocomposite coatings under ultrasonic field. Ultrasonics Sonochemistry, 2019, 56, 229-239.	8.2	20
35	Development and investigation of Cu/SiC nano-composite coatings via various parameters of DC electrodeposition. Tribology International, 2019, 134, 221-231.	5.9	19
36	Effect of heat treatment on the properties of electroless Ni@P@carbon nanotube composite coatings. Micro and Nano Letters, 2012, 7, 90.	1.3	17

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37	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
38	Corrosion inhibition of Ti6Al4V alloy by a protective plasma electrolytic oxidation coating modified with boron carbide nanoparticles. Surface and Coatings Technology, 2022, 430, 127987.	4.8	17
39	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
40	Failure analysis of overhead flow cooling systems of a light naphtha separator tower at a petrochemical plant. Engineering Failure Analysis, 2013, 27, 130-140.	4.0	15
41	The effect of carboxylate compounds on controlling nitrite TM 's environmental side effects for carbon steel corrosion protection in the simulated concrete pore solution. Construction and Building Materials, 2021, 308, 125037.	7.2	15
42	Electrochemical noise analysis of carbon steel in simulated concrete pore solution affected by CO ₂ and SO ₂ using wavelet transform. Anti-Corrosion Methods and Materials, 2008, 55, 250-256.	1.5	14
43	The use of rare earth cations as corrosion inhibitors for carbon steel in aerated NaCl solution. Anti-Corrosion Methods and Materials, 2008, 55, 135-143.	1.5	13
44	Corrosion assessment of electroless nickel TM -phosphorous/nanosilicon carbide composite coatings. Micro and Nano Letters, 2011, 6, 937.	1.3	13
45	Characteristics and properties of Cr coatings electrodeposited from Cr(III) baths. Materials Research Express, 2019, 6, 026403.	1.6	12
46	Interfacial interaction study of EDTA with the defect structure of Fe ₃ O ₄ passive film in an aggressive alkaline medium based on the lattice theory of point defects. RSC Advances, 2022, 12, 3524-3541.	3.6	12
47	Passive film alteration of reinforcing steel through [MoO ₄]/[RCOO ⁻] interfacial co-interaction for enhanced corrosion resistance in chloride contaminated concrete pore solution. Journal of Molecular Liquids, 2022, 356, 119060.	4.9	12
48	Effect of plating parameters on microstructure and tribological properties of Co TM -BN(hexagonal) nano composite coatings. Transactions of Nonferrous Metals Society of China, 2013, 23, 2929-2938.	4.2	11
49	Self-healing Coatings Loaded by Nano/microcapsules: A Review. Protection of Metals and Physical Chemistry of Surfaces, 2022, 58, 287-307.	1.1	11
50	Studying the influence of nano-Al ₂ O ₃ particles on morphology and corrosion improvement of Ni TM -9%P electroless coatings. Micro and Nano Letters, 2010, 5, 262.	1.3	10
51	Microstructural, corrosion and mechanical behavior of two-step plasma electrolyte oxidation ceramic coatings. Transactions of Nonferrous Metals Society of China, 2017, 27, 2225-2233.	4.2	9
52	Deposition, Characterization and Evaluation of Monolayer and Multilayer Ni, Ni TM -P and Ni TM -P TM -Nano ZnO Coatings. Transactions of the Indian Institute of Metals, 2018, 71, 1301-1309.	1.5	9
53	THE CORROSION BEHAVIOR OF ELECTROLESS Ni-P-SiC NANO-COMPOSITE COATING. International Journal of Modern Physics B, 2008, 22, 3031-3036.	2.0	8
54	The Influence of Current Density and Frequency on the Microstructure and Corrosion Behavior of Plasma Electrolytic Oxidation Coatings on Ti6Al4V. Journal of Materials Engineering and Performance, 2017, 26, 931-944.	2.5	8

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55	Preparation and Property Investigation of Epoxy/Amine Micro/Nanocapsule Based Self-healing Coatings. International Polymer Processing, 2018, 33, 721-730.	0.5	8
56	Characteristics and properties of Co-Cr alloy coatings prepared by electrodeposition. Surface Engineering, 2020, 36, 966-974.	2.2	8
57	Preparation and characterization of durable micro/nanocapsules for use in self-healing anticorrosive coatings. Polymer Science - Series B, 2017, 59, 281-291.	0.8	7
58	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
59	Autonomous-healing and smart anti-corrosion mechanism of polyurethane embedded with a novel synthesized microcapsule containing sodium dodecyl sulfate as a corrosion inhibitor. RSC Advances, 2022, 12, 14299-14314.	3.6	6
60	EVALUATION OF ELECTROLESS Ni-P AND Ni-P NANO-COMPOSITE COATINGS' PROPERTIES. International Journal of Modern Physics Conference Series, 2012, 05, 817-824.	0.7	5
61	Effects of Direct Current and Pulse Electrodeposition Parameters on the Properties of Nano Cobalt Coatings. Key Engineering Materials, 0, 471-472, 1010-1015.	0.4	4
62	A comparison between the simulation and experimental results of cathodic protection of oil well casings. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 1708-1714.	1.5	4
63	Structural characterization of LaCoO_3 perovskite nanoparticles synthesized by sol-gel autocombustion method. Engineering Reports, 2021, 3, e12335.	1.7	4
64	An investigation on the atmospheric corrosion behaviour of coatings of electrical equipment in the coast of Persian Gulf - Bandar Abbas. Anti-Corrosion Methods and Materials, 2004, 51, 209-215.	1.5	3
65	Application of the inverse wavelet transform on electrochemical current signals to demonstrate the essence of high-frequency variations. Anti-Corrosion Methods and Materials, 2010, 57, 65-69.	1.5	3
66	Evaluation of synergistic effect and failure characterization for Ni-based nanostructured coatings and 17-4PH SS under cavitation exposure in 3.5wt % NaCl solution. Wear, 2021, 466-467, 203532.	3.1	3
67	HIGH CORROSION RESISTANCE OF Ni-P/NANO-SIO ₂ ELECTROLESS COMPOSITE COATINGS. International Journal of Modern Physics Conference Series, 2012, 05, 810-816.	0.7	2
68	Pt nanoparticles coating on orthodontic Ni-Ti wires using pulse current. , 2011, , .		1
69	Nano cobalt coating corrosion behavior obtained by DC and PC electrodeposition process. , 2011, , .		1
70	Corrosion behavior of two candidate PEMFC's bipolar plate materials. Anti-Corrosion Methods and Materials, 2017, 64, 293-298.	1.5	1
71	Nanostructure and nanocomposite MAO coatings and their corrosion properties. , 2020, , 423-449.		1
72	Calculating of the Relative Preference of Criteria Affecting Electroless Coating of Alumina Nano Particles on Ni-B by Analytic Hierarchy Process (AHP) Method. Advanced Materials Research, 0, 911, 87-91.	0.3	0

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73	Corrosion behavior of Cr/P/nano Al ₂ O ₃ composite coatings. Materials Research Express, 2019, 6, 1265j4.	1.6	0