

# Saeed R Allahkaram

## List of Publications by Year in descending order

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73  
papers

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citations

236925

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73  
docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Interfacial interaction study of EDTA with the defect structure of Fe <sub>3</sub> O <sub>4</sub> passive film in an aggressive alkaline medium based on the lattice theory of point defects. RSC Advances, 2022, 12, 3524-3541.	3.6	12
2	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
3	Passive film alteration of reinforcing steel through [MoO <sub>4</sub> ]/[RCOO <sup>-</sup> ] interfacial co-interaction for enhanced corrosion resistance in chloride contaminated concrete pore solution. Journal of Molecular Liquids, 2022, 356, 119060.	4.9	12
4	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
5	Self-healing Coatings Loaded by Nano/microcapsules: A Review. Protection of Metals and Physical Chemistry of Surfaces, 2022, 58, 287-307.	1.1	11
6	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
7	Optimization of nano HA-SiC coating on AISI 316L medical grade stainless steel via electrophoretic deposition. Materials Letters, 2021, 285, 129097.	2.6	22
8	Structural characterization of LaCoO <sub>3</sub> perovskite nanoparticles synthesized by sol-gel autocombustion method. Engineering Reports, 2021, 3, e12335.	1.7	4
9	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. Construction and Building Materials, 2021, 296, 123702.	7.2	33
10	The effect of carboxylate compounds on controlling nitrite <sup>TM</sup> 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
11	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
12	Corrosion and wear behavior of an electroless Ni-P/nano-SiC coating on AZ31 Mg alloy obtained through environmentally-friendly conversion coating. Surface and Coatings Technology, 2020, 382, 125156.	4.8	66
13	Characteristics and properties of Co-Cr alloy coatings prepared by electrodeposition. Surface Engineering, 2020, 36, 966-974.	2.2	8
14	Nanostructure and nanocomposite MAO coatings and their corrosion properties. , 2020, , 423-449.		1
15	Evaluation of corrosion behaviour of Pb-Co <sub>3</sub> O <sub>4</sub> electrodeposited coating using EIS method. Corrosion Science, 2019, 157, 472-480.	6.6	78
16	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
17	An investigation on cavitation-corrosion behavior of Ni <sup>12</sup> -SiC nanocomposite coatings under ultrasonic field. Ultrasonics Sonochemistry, 2019, 56, 229-239.	8.2	20
18	Development and investigation of Cu/SiC nano-composite coatings via various parameters of DC electrodeposition. Tribology International, 2019, 134, 221-231.	5.9	19

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19	Corrosion behavior of Cr/P/nano Al <sub>2</sub> O <sub>3</sub> composite coatings. <i>Materials Research Express</i> , 2019, 6, 1265j4.	1.6	0
20	Effect of phosphorous content and heat treatment on the structure, hardness and wear behavior of Co-P coatings. <i>Wear</i> , 2019, 422-423, 35-43.	3.1	21
21	Characteristics and properties of Cr coatings electrodeposited from Cr(III) baths. <i>Materials Research Express</i> , 2019, 6, 026403.	1.6	12
22	Characteristics and properties of Cu/nano-SiC and Cu/nano-SiC/graphite hybrid composite coatings produced by pulse electrodeposition technique. <i>Canadian Metallurgical Quarterly</i> , 2018, 57, 358-366.	1.2	7
23	Deposition, Characterization and Evaluation of Monolayer and Multilayer Ni, Ni-P and Ni-P/Nano ZnO Coatings. <i>Transactions of the Indian Institute of Metals</i> , 2018, 71, 1301-1309.	1.5	9
24	Study on corrosion behavior of nano-structured coatings developed on biodegradable as cast Mg-Zn-Ca alloy by plasma electrolyte oxidation. <i>Surface and Coatings Technology</i> , 2018, 347, 225-234.	4.8	21
25	Effect of bath composition and pulse electrodeposition condition on characteristics and microhardness of cobalt coatings. <i>Transactions of Nonferrous Metals Society of China</i> , 2018, 28, 2017-2027.	4.2	17
26	Preparation and Property Investigation of Epoxy/Amine Micro/Nanocapsule Based Self-healing Coatings. <i>International Polymer Processing</i> , 2018, 33, 721-730.	0.5	8
27	The Influence of Current Density and Frequency on the Microstructure and Corrosion Behavior of Plasma Electrolytic Oxidation Coatings on Ti6Al4V. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 931-944.	2.5	8
28	Preparation and characterization of durable micro/nanocapsules for use in self-healing anticorrosive coatings. <i>Polymer Science - Series B</i> , 2017, 59, 281-291.	0.8	7
29	Corrosion behavior of two candidate PEMFC's bipolar plate materials. <i>Anti-Corrosion Methods and Materials</i> , 2017, 64, 293-298.	1.5	1
30	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
31	Microstructural, corrosion and mechanical behavior of two-step plasma electrolyte oxidation ceramic coatings. <i>Transactions of Nonferrous Metals Society of China</i> , 2017, 27, 2225-2233.	4.2	9
32	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
33	Preparation of PEO coating on Ti6Al4V in different electrolytes and evaluation of its properties. <i>Surface Engineering</i> , 2016, 32, 448-456.	2.2	20
34	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
35	Effect of pH, Surfactant, and Heat Treatment on Morphology, Structure, and Hardness of Electrodeposited Co-P Coatings. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 3209-3217.	2.5	16
36	Composition, characteristics and tribological behavior of Cr, Co-Cr and Co-Cr/TiO <sub>2</sub> nano-composite coatings electrodeposited from trivalent chromium based baths. <i>Journal of Alloys and Compounds</i> , 2015, 635, 150-157.	5.5	54

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37	Corrosion behaviour of electrodeposited nanocrystalline Co and Co/ZrO <sub>2</sub> nanocomposite coatings. Surface Engineering, 2015, 31, 251-257.	2.2	29
38	Corrosion and tribological behavior of Ni-Cr alloy coatings electrodeposited on low carbon steel in Cr (III)-Ni (II) bath. Surface and Coatings Technology, 2015, 281, 144-149.	4.8	36
39	Investigation on corrosion rate and a novel corrosion criterion for gas pipelines affected by dynamic stray current. Journal of Natural Gas Science and Engineering, 2015, 26, 453-460.	4.4	64
40	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
41	Effect of plating parameters on microstructure and tribological properties of Co-BN(hexagonal) nano composite coatings. Transactions of Nonferrous Metals Society of China, 2013, 23, 2929-2938.	4.2	11
42	Characteristics of electrodeposited cobalt and titania nano-reinforced cobalt composite coatings. Surface and Coatings Technology, 2013, 232, 198-203.	4.8	29
43	Electrodeposition and characterization of Co-BN (h) nanocomposite coatings. Applied Surface Science, 2013, 276, 174-181.	6.1	32
44	Characterization of PbO <sub>2</sub> 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
45	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
46	Porosity measurement of electroless Ni-P coatings reinforced by CNT or SiC particles. Surface Engineering, 2012, 28, 400-405.	2.2	21
47	HIGH CORROSION RESISTANCE OF NI-P/NANO-SIO <sub>2</sub> ELECTROLESS COMPOSITE COATINGS. International Journal of Modern Physics Conference Series, 2012, 05, 810-816.	0.7	2
48	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
49	Deposition, characterization and electrochemical evaluation of Ni-P-nano diamond composite coatings. Applied Surface Science, 2012, 258, 4574-4580.	6.1	57
50	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
51	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
52	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. Materials & Design, 2012, 34, 65-73.	5.1	43
53	Pt nanoparticles coating on orthodontic Ni-Ti wires using pulse current. , 2011, , .		1
54	Nano cobalt coating corrosion behavior obtained by DC and PC electrodeposition process. , 2011, , .		1

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55	Effect of surfactant on the fabrication and characterization of Ni-P-CNT composite coatings. Journal of Alloys and Compounds, 2011, 509, 1836-1840.	5.5	74
56	Corrosion assessment of electroless nickel-phosphorous/nanosilicon carbide composite coatings. Micro and Nano Letters, 2011, 6, 937.	1.3	13
57	Failure analysis of heat exchanger tubes of four gas coolers. Engineering Failure Analysis, 2011, 18, 1108-1114.	4.0	23
58	Corrosion resistance enhancement of Ni-P electroless coatings by incorporation of nano-SiO <sub>2</sub> particles. Materials & Design, 2011, 32, 133-138.	5.1	133
59	Characterization and corrosion behavior of electroless Ni-P/nano-SiC coating inside the CO <sub>2</sub> containing media in the presence of acetic acid. Materials & Design, 2011, 32, 750-755.	5.1	70
60	Properties of Al <sub>2</sub> O <sub>3</sub> nano-particle reinforced copper matrix composite coatings prepared by pulse and direct current electroplating. Materials & Design, 2011, 32, 4478-4484.	5.1	78
61	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
62	Studying the influence of nano-Al <sub>2</sub> O <sub>3</sub> particles on morphology and corrosion improvement of Ni-P electroless coatings. Micro and Nano Letters, 2010, 5, 262.	1.3	10
63	The effects of temperature and pH on the characteristics of corrosion product in CO <sub>2</sub> corrosion of grade X70 steel. Materials & Design, 2010, 31, 3559-3563.	5.1	112
64	An investigation on effects of heat treatment on corrosion properties of Ni-P electroless nano-coatings. Materials & Design, 2010, 31, 3174-3179.	5.1	111
65	The effect of acetic acid on the CO <sub>2</sub> corrosion of grade X70 steel. Materials & Design, 2010, 31, 4290-4295.	5.1	29
66	Simulation of cathodic protection potential distributions on oil well casings. Journal of Petroleum Science and Engineering, 2010, 72, 215-219.	4.2	31
67	An investigation on corrosion resistance of as-applied and heat treated Ni-P/nanoSiC coatings. Materials & Design, 2009, 30, 4450-4453.	5.1	65
68	Electrochemical noise analysis of carbon steel in simulated concrete pore solution affected by CO <sub>2</sub> and SO <sub>2</sub> using wavelet transform. Anti-Corrosion Methods and Materials, 2008, 55, 250-256.	1.5	14
69	THE CORROSION BEHAVIOR OF ELECTROLESS Ni-P-SiC NANO-COMPOSITE COATING. International Journal of Modern Physics B, 2008, 22, 3031-3036.	2.0	8
70	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
71	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
72	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

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73	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