

# Changiz Dehghanian

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

1,251  
citations

430874

18  
h-index

377865

34  
g-index

48  
all docs

48  
docs citations

48  
times ranked

1212  
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ synthesis of polyaniline-camphorsulfonate particles in an epoxy matrix for corrosion protection of mild steel in NaCl solution. <i>Corrosion Science</i> , 2014, 85, 204-214.	6.6	114
2	Corrosion protection of the reinforcing steels in chloride-laden concrete environment through epoxy/polyaniline-camphorsulfonate nanocomposite coating. <i>Corrosion Science</i> , 2015, 90, 239-247.	6.6	110
3	Comparison of the coating properties and corrosion rates in electroless Ni-P/PTFE composites prepared by different types of surfactants. <i>Applied Surface Science</i> , 2011, 257, 8653-8658.	6.1	102
4	Effects of grain size on the electrochemical corrosion behaviour of electrodeposited nanocrystalline Fe coatings in alkaline solution. <i>Corrosion Science</i> , 2009, 51, 1844-1849.	6.6	91
5	Corrosion inhibition of copper, mild steel and galvanically coupled copper-mild steel in artificial sea water in presence of 1H-benzotriazole, sodium molybdate and sodium phosphate. <i>Corrosion Science</i> , 2017, 126, 272-285.	6.6	91
6	Studying the effects of the addition of TiN nanoparticles to Ni-P electroless coatings. <i>Applied Surface Science</i> , 2011, 258, 1876-1880.	6.1	55
7	Nanocrystalline Structure Produced by Complex Surface Treatments: Plasma Electrolytic Nitrocarburizing, Boronitriding, Borocarburing, and Borocarbonitriding. <i>Plasma Processes and Polymers</i> , 2007, 4, S721-S727.	3.0	45
8	Corrosion behavior of Ni-P/nano-TiC composite coating prepared in electroless baths containing different types of surfactant. <i>Progress in Natural Science: Materials International</i> , 2012, 22, 480-487.	4.4	43
9	Effect of grain size on the corrosion resistance of low carbon steel. <i>Materials Research Express</i> , 2020, 7, 016522.	1.6	39
10	In- vitro corrosion behavior of the cast and extruded biodegradable Mg-Zn-Cu alloys in simulated body fluid (SBF). <i>Journal of Magnesium and Alloys</i> , 2021, 9, 2078-2096.	11.9	38
11	Deposition and characterization of nanocrystalline and amorphous Ni-W coatings with embedded alumina nanoparticles. <i>Ceramics International</i> , 2013, 39, 7759-7766.	4.8	37
12	Characterization of silicon- substituted nano hydroxyapatite coating on magnesium alloy for biomaterial application. <i>Materials Chemistry and Physics</i> , 2018, 203, 27-33.	4.0	37
13	Effect of electrodeposition parameters and substrate on morphology of Si-HA coating. <i>Surface and Coatings Technology</i> , 2019, 375, 341-351.	4.8	30
14	Evaluation of Nanocrystalline Microstructure, Abrasion, and Corrosion Properties of Carbon Steel Treated by Plasma Electrolytic Boriding. <i>Plasma Processes and Polymers</i> , 2007, 4, S711-S716.	3.0	29
15	Significance of Martensite Reversion and Austenite Stability to the Mechanical Properties and Transformation-Induced Plasticity Effect of Austenitic Stainless Steels. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 3233-3242.	2.5	29
16	Effect of duty cycle and electrolyte additive on photocatalytic performance of TiO <sub>2</sub> -ZrO <sub>2</sub> composite layers prepared on CP Ti by micro arc oxidation method. <i>Surface and Coatings Technology</i> , 2016, 307, 554-564.	4.8	25
17	Processing Route Effects on the Mechanical and Corrosion Properties of Dual Phase Steel. <i>Metals and Materials International</i> , 2020, 26, 882-890.	3.4	24
18	In vitro degradation and cytotoxicity of Mg-5Zn-0.3Ca/nHA biocomposites prepared by powder metallurgy. <i>Transactions of Nonferrous Metals Society of China</i> , 2018, 28, 1745-1754.	4.2	21

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19	Effects of tempering on the mechanical and corrosion properties of dual phase steel. <i>Materials Today Communications</i> , 2020, 22, 100745.	1.9	19
20	Silane coatings modified with hydroxyapatite nanoparticles to enhance the biocompatibility and corrosion resistance of a magnesium alloy. <i>RSC Advances</i> , 2021, 11, 26127-26144.	3.6	19
21	Pulsed electrodeposition of reduced graphene oxide on Ni NiO foam electrode for high-performance supercapacitor. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 12233-12250.	7.1	18
22	Synthesis of nanoporous copper foam-applied current collector electrode for supercapacitor. <i>Journal of the Iranian Chemical Society</i> , 2019, 16, 283-292.	2.2	18
23	Inhibitor effect of sodium benzoate on the corrosion behavior of nanocrystalline pure iron metal in near-neutral aqueous solutions. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 1855-1861.	2.5	17
24	Electrochemical assessment of characteristics and corrosion behavior of Zr-containing coatings formed on titanium by plasma electrolytic oxidation. <i>Surface and Coatings Technology</i> , 2015, 279, 79-91.	4.8	16
25	The Microstructure, and Mechanical and Corrosion Properties of As-Cast and As-Extruded Mg-2%Zn-x%Cu Alloys After Solution and Aging Heat Treatments. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 2305-2315.	2.5	14
26	Effects of spheroidization heat treatment and intercritical annealing on mechanical properties and corrosion resistance of medium carbon dual phase steel. <i>Materials Chemistry and Physics</i> , 2021, 257, 123721.	4.0	14
27	Synthesis, characterization and electrochemical performance of a new imidazoline derivative as an environmentally friendly corrosion and scale inhibitor. <i>Research on Chemical Intermediates</i> , 2016, 42, 4551-4568.	2.7	13
28	Unraveling the Effect of Martensite Volume Fraction on the Mechanical and Corrosion Properties of Low-Carbon Dual-Phase Steel. <i>Steel Research International</i> , 2020, 91, 1900327.	1.8	13
29	Surface Hardening of AISI H13 Steel Using Pulsed Plasma Electrolytic Carburizing (PPEC). <i>Plasma Processes and Polymers</i> , 2009, 6, S168.	3.0	12
30	Facile synthesis of nano dendrite-structured Ni <sup>2+</sup> /NiO foam/ERGO by constant current method for supercapacitor applications. <i>Journal of Applied Electrochemistry</i> , 2018, 48, 923-935.	2.9	12
31	Thermodynamics basis of saturation of martensite content during reversion annealing of cold rolled metastable austenitic steel. <i>Vacuum</i> , 2020, 174, 109220.	3.5	12
32	Flower-like mesoporous nano NiCo <sub>2</sub> O <sub>4</sub> -decorated ERGO/Ni-NiO foam as electrode materials for supercapacitor. <i>Materials Research Bulletin</i> , 2019, 109, 10-20.	5.2	11
33	Phase transformation mechanism and kinetics during step quenching of st37 low carbon steel. <i>Materials Research Express</i> , 2019, 6, 1165f2.	1.6	10
34	Electrochemical Behavior of Steel in Concrete as a Result of Chloride Diffusion into Concrete: Part 2. <i>Corrosion</i> , 1982, 38, 494-499.	1.1	9
35	Corrosion properties of plasma electrolytic coated samples. <i>Anti-Corrosion Methods and Materials</i> , 2007, 54, 148-154.	1.5	9
36	Wear and corrosion properties of nanocrystalline coatings on stainless steel produced by plasma electrolytic nitrocarburizing. <i>International Journal of Materials Research</i> , 2008, 99, 92-100.	0.3	8

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37	Influence of heat treatment temperature on the electrochemical properties and corrosion behavior of RuO <sub>2</sub> -TiO <sub>2</sub> coating in acidic chloride solution. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2013, 49, 699-704.	1.1	8
38	Tempering kinetics and corrosion resistance of quenched and tempered AISI 4130 medium carbon steel. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2021, 72, 1808-1812.	1.5	7
39	Preparation of dendritic nanoporous Ni-NiO foam by electrochemical dealloying for use in high-performance supercapacitors. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 3639-3645.	2.5	6
40	The influence of nanocrystalline state of iron on the corrosion inhibitor behavior in aqueous solution. <i>Journal of Applied Electrochemistry</i> , 2010, 40, 1949-1956.	2.9	5
41	Electrochemical polarization and passivation of nanostructured iron in acid solution. <i>Anti-Corrosion Methods and Materials</i> , 2010, 57, 142-147.	1.5	4
42	THE INFLUENCE OF GRAIN SIZE OF PURE IRON METAL ON CORROSION INHIBITION IN PRESENCE OF SODIUM NITRITE. <i>International Journal of Modern Physics Conference Series</i> , 2012, 05, 793-800.	0.7	4
43	Influence of Near-Surface Severe Plastic Deformation of Mild Steel on the Inhibition Performance of Sodium Molybdate and 1H-Benzotriazole in Artificial Sea Water. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 550-559.	2.5	4
44	Electrochemical Behavior of Steel in Salt Contaminated Concrete: Part 1. <i>Corrosion</i> , 1983, 39, 299-305.	1.1	3
45	The effect of grain size on the corrosion inhibitor adsorption of nanocrystalline iron metal. <i>International Journal of Materials Research</i> , 2010, 101, 366-371.	0.3	3
46	The Correlation Among Deposition Parameters, Structure and Corrosion Behavior in ZnNi/Nano-SiC Coating. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 3746-3755.	2.5	3
47	THE INFLUENCE OF PULSE PARAMETERS ON THE MICROSTRUCTURE OF IRON ELECTRODEPOSITS. <i>International Journal of Nanoscience</i> , 2010, 09, 365-370.	0.7	0