Farzad Nasirpouri

List of Publications by Year
in descending order

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94 papers	1,737 citations	304743 22 h-index	315739 38 g-index
99 all docs	99 docs citations	99 times ranked	1841 citing authors

#	Article	IF	Citations
1	Epoxy/polyanilineâ€“ZnO nanorods hybrid nanocomposite coatings: Synthesis, characterization and corrosion protection performance of conducting paints. Progress in Organic Coatings, 2014, 77, 146-159.	3.9	248
2	Corrosion resistance of Niâ€“Co alloy and Niâ€“Co/SiC nanocomposite coatings electrodeposited by sediment codeposition technique. Applied Surface Science, 2014, 307, 351-359.	6.1	131
3	An investigation on the effect of surface morphology and crystalline texture on corrosion behavior, structural and magnetic properties of electrodeposited nanocrystalline nickel films. Applied Surface Science, 2014, 292, 795-805.	6.1	83
4	Preparation and characterization of a novel conducting nanocomposite blended with epoxy coating for antifouling and antibacterial applications. Journal of Coatings Technology Research, 2013, 10, 679-694.	2.5	61
5	Cyclic voltammetry deposition of nickel nanoparticles on TiO2 nanotubes and their enhanced properties for electro-oxidation of methanol. Journal of Electroanalytical Chemistry, 2017, 797, 121-133.	3.8	59
6	GMR in multilayered nanowires electrodeposited in track-etched polyester and polycarbonate membranes. Journal of Magnetism and Magnetic Materials, 2007, 308, 35-39.	2.3	53
7	On the growth sequence of highly ordered nanoporous anodic aluminium oxide. Materials & Design, 2006, 27, 983-988.	5.1	52
8	Caustic corrosion in a boiler waterside tube: Root cause and mechanism. Engineering Failure Analysis, 2013, 28, 69-77.	4.0	42
9	Investigation of the porous nanostructured Cu/Ni/AuNi electrode for sodium borohydride electrooxidation. Electrochimica Acta, 2013, 114, 215-222.	5.2	39
10	Manipulating morphology, pore geometry and ordering degree of TiO2 nanotube arrays by anodic oxidation. Surface and Coatings Technology, 2013, 235, 727-734.	4.8	36
11	A study on electrodeposition of Ni-noncovalnetly treated carbon nanotubes nanocomposite coatings with desirable mechanical and anti-corrosion properties. Surface and Coatings Technology, 2014, 248, 63-73.	4.8	36
12	Variation of magnetic anisotropy and temperature-dependent FORC probing of compositionally tuned Co-Ni alloy nanowires. Journal of Alloys and Compounds, 2018, 732, 683-693.	5.5	36
13	Polyaniline-modified graphene oxide nanocomposites in epoxy coatings for enhancing the anticorrosion and antifouling properties. Journal of Coatings Technology Research, 2019, 16, 983-997.	2.5	36
14	High-density nickel nanowire arrays for data storage applications. Journal of Physics: Conference Series, 2012, 345, 012011.	0.4	33
15	Pulse electrodeposition and corrosion properties of nanocrystalline nickel-chromium alloy coatings on copper substrate. Journal of Alloys and Compounds, 2020, 822, 153712.	5.5	33
16	A comparison between self-ordering of nanopores in aluminium oxide films achieved by two- and three-step anodic oxidation. Current Applied Physics, 2009, 9, S91-S94.	2.4	30
17	Tuning surface morphology and crystallinity of anodic TiO2 nanotubes and their response to biomimetic bone growth for implant applications. Surface and Coatings Technology, 2017, 315, 163-171.	4.8	30
18	Refinement of electrodeposition mechanism for fabrication of thin nickel films on n-type silicon (111). Journal of Electroanalytical Chemistry, 2013, 690, 136-143.	3.8	29

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19	Electrodeposition of Nanostructured Materials. Springer Series in Surface Sciences, 2017, , .	0.3	29
20	Geometrically designed domain wall trap in tri-segmented nickel magnetic nanowires for spintronics devices. Scientific Reports, 2019, 9, 9010.	3.3	29
21	Effect of Morphology and Surface Modification of Silica Nanoparticles on the Electrodeposition and Corrosion Behavior of Zinc-Based Nanocomposite Coatings. Journal of the Electrochemical Society, 2019, 166, D1-D9.	2.9	27
22	Electropolishing behaviour of pure titanium in perchloric acidâ€“methanolâ€“ethylene glycol mixed solution. Transactions of the Institute of Metal Finishing, 2014, 92, 132-139.	1.3	26
23	Smart anti-corrosion self-healing zinc metal-based molybdate functionalized-mesoporous-silica (MCM-41) nanocomposite coatings. RSC Advances, 2017, 7, 51879-51887.	3.6	26
24	Assessment of localized corrosion in carbon steel tube-grade AISI 1045 used in output oilâ€“gas separator vessel of desalination unit in oil refinery industry. Engineering Failure Analysis, 2014, 40, 75-88.	4.0	25
25	Failure analysis of a superheater tube ruptured in a power plant boiler: Main causes and preventive strategies. Engineering Failure Analysis, 2019, 98, 131-140.	4.0	25
26	Epoxy-matrix polyaniline/p-phenylenediamine-functionalised graphene oxide coatings with dual anti-corrosion and anti-fouling performance. RSC Advances, 2021, 11, 11627-11641.	3.6	24
27	Electrochemical study of epoxy coating containing novel conducting nanocomposite comprising polyanilineâ€“ZnO nanorods on low carbon steel. Corrosion Engineering Science and Technology, 2013, 48, 513-524.	1.4	22
28	Conversion of magnetic anisotropy in electrodeposited Coâ€“Ni alloy nanowires. Journal of Magnetism and Magnetic Materials, 2015, 383, 94-99.	2.3	21
29	Electrodeposition and magnetic properties of three-dimensional bulk and shell nickel mesostructures. Thin Solid Films, 2011, 519, 8320-8325.	1.8	20
30	On the electrodeposition mechanism of Pb on copper substrate from a perchlorate solution studied by electrochemical quartz crystal microbalance. Ionics, 2011, 17, 331-337.	2.4	20
31	Failure analysis of monel packing in atmospheric distillation tower under the service in the presence of corrosive gases. Engineering Failure Analysis, 2013, 28, 241-251.	4.0	19
32	Tunable Distribution of Magnetic Nanodiscs in an Array of Electrodeposited Multilayered Nanowires. IEEE Transactions on Magnetics, 2011, 47, 2015-2021.	2.1	16
33	Micromagnetic studies of three-dimensional pyramidal shell structures. New Journal of Physics, 2010, 12, 113048.	2.9	15
34	Structural Defectâ€Induced Bandgap Narrowing in Dopantâ€Free Anodic TiO₂ Nanotubes. ChemElectroChem, 2017, 4, 1227-1235.	3.4	15
35	Dimethylformamide-free synthesis and fabrication of lead halide perovskite solar cells from electrodeposited PbS precursor films. Chemical Engineering Journal, 2021, 411, 128460.	12.7	15
36	Roughness evolution of highly ordered nanoporous anodic aluminum oxide films. Ionics, 2013, 19, 535-542.	2.4	14

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37	Modification of Chemically Exfoliated Graphene to Produce Efficient Piezoresistive Polystyreneâ€“Graphene Composites. Journal of Electronic Materials, 2015, 44, 3512-3522.	2.2	14
38	Tuning substrate roughness to improve uniform growth and photocurrent response in anodic TiO2 nanotube arrays. Ceramics International, 2018, 44, 22671-22679.	4.8	13
39	Morphology- and magnetism-controlled electrodeposition of Ni nanostructures on TiO2 nanotubes for hybrid Ni/TiO2 functional applications. Ceramics International, 2019, 45, 11258-11269.	4.8	13
40	Electrodeposition of anticorrosion nanocoatings. , 2020, , 473-497.		12
41	Electrodeposition mechanism of nickel films on polycrystalline copper from dilute simple sulphate solutions. Russian Journal of Electrochemistry, 2011, 47, 787-792.	0.9	11
42	Magnetic Properties of Electrodeposited Nickel-Multiwall Carbon Nanotube Composite Films. IEEE Transactions on Magnetics, 2015, 51, .	2.1	11
43	Failure analysis of a carbon steel screw under the service in the presence of hydrogen sulphide. Engineering Failure Analysis, 2011, 18, 2316-2323.	4.0	10
44	Double spin resonance in a spatially periodic magnetic field with zero average. Europhysics Letters, 2011, 94, 28001.	2.0	10
45	The effect of first step anodization time on morphology and photocurrent response of TiO 2 nanotube arrays for application in backside illuminated dye-sensitized solar cells. Thin Solid Films, 2017, 640, 1-7.	1.8	10
46	Boosting hydrogen and oxygen evolution reactions on electrodeposited nickel electrodes via simultaneous mesoporosity, magnetohydrodynamics and high gradient magnetic force. Journal of Materials Chemistry A, 2020, 8, 24782-24799.	10.3	9
47	Itinerant electron transport in microscopically inhomogeneous magnetic fields. Journal of Magnetism and Magnetic Materials, 2006, 299, 356-361.	2.3	8
48	Geometry Dependent Magnetic Properties of Ni Nanowires Embedded in Self-Assembled Arrays. Physics Procedia, 2011, 22, 549-556.	1.2	8
49	Effect of Size and Configuration on the Magnetization of Nickel Dot Arrays. IEEE Transactions on Magnetics, 2011, 47, 4695-4700.	2.1	8
50	Three-dimensional ferromagnetic architectures with multiple metastable states. Applied Physics Letters, 2011, 98, .	3.3	8
51	Reduction-based engineering of three-dimensional morphology of Ni-rGO nanocomposite. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 271, 115259.	3.5	8
52	Exploiting magnetic sediment co-electrodeposition mechanism in Ni-Al2O3 nanocomposite coatings. Journal of Electroanalytical Chemistry, 2022, 907, 116052.	3.8	8
53	Magnetic vortex state and multi-domain pattern in electrodeposited hemispherical nanogranular nickel films. Journal of Magnetism and Magnetic Materials, 2014, 371, 149-156.	2.3	7
54	Compositionally graded Fe(1â^'x)-Pt(x) nanowires produced by alternating current electrodeposition into alumina templates. Journal of Solid State Chemistry, 2016, 244, 35-44.	2.9	7

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55	Influence of pH level of artificial saliva on corrosion behavior and nickel ion release of a Ni-Cr-Mo alloy: an in vitro study. Anti-Corrosion Methods and Materials, 2019, 66, 746-756.	1.5	7
56	Towards environmental friendly multi-step processing of efficient mixed-cation mixed halide perovskite solar cells from chemically bath deposited lead sulphide. Scientific Reports, 2021, 11, 18561.	3.3	7
57	Nanomagnetism and Spintronics. , 2010, , .		7
58	In-situ EQCM evaluation of the formation of UPD and OPD during electrodeposition of Pb on gold. Protection of Metals and Physical Chemistry of Surfaces, 2011, 47, 534-539.	1.1	6
59	Dependence of the magnetic properties of nanocrystalline nickel films on grain size and surface morphology. Nanotechnologies in Russia, 2014, 9, 723-727.	0.7	6
60	Corrosion Behavior of a Nickel-Base Dental Casting Alloy in Artificial Saliva Studied by Weight Loss and Polarization Techniques. Frontiers in Dentistry, 2019, 16, 13-20.	0.6	6
61	Electrodeposited Co93.2P6.8 nanowire arrays with core-shell microstructure and perpendicular magnetic anisotropy. Journal of Applied Physics, 2015, 117, 17E715.	2.5	5
62	Effect of chemical passivation on corrosion behavior and ion release of a commercial chromium-cobalt alloy. Journal of Dental Research, Dental Clinics, Dental Prospects, 2020, 14, 171-176.	1.0	5
63	Magnetic Properties of Nickel Nanowire Arrays Patterned by Template Electrodeposition. Solid State Phenomena, 2012, 190, 522-525.	0.3	4
64	Template Electrodeposition of Nanowires Arrays. Springer Series in Surface Sciences, 2017, , 187-259.	0.3	4
65	Mesophase micelle-assisted electrodeposition and magnetisation behavior of meso-porous nickel films for efficient electrochemical energy and magnetic device applications. Applied Surface Science, 2019, 471, 776-785.	6.1	4
66	Three-Dimensional Conductive Fingerprint Phantoms Made of Ethylene-Vinyl Acetate/Graphene Nanocomposite for Evaluating Smartphone Scanners. ACS Applied Electronic Materials, 2021, 3, 2097-2105.	4.3	4
67	Granulated media for nanoelectronic applications. Journal of Physics: Conference Series, 2012, 345, 012010.	0.4	3
68	A new approach to understanding the deficiency of backside illuminated dye-sensitized solar cellsâ€™ fill factor as a result of cracking of the TNAs. Materials Today: Proceedings, 2019, 18, 501-509.	1.8	3
69	Failure analysis and preventive recommendations against corrosion of steel tubes of gas risers in natural gas urban distribution lines. Engineering Failure Analysis, 2021, 122, 105240.	4.0	3
70	Microstructure, composition and magnetic properties of Nd-(Fe1-xCox)-B oxide magnetic particles synthesized by Pechini-type chemical method. Advanced Powder Technology, 2021, 32, 3964-3979.	4.1	3
71	AC Electrodeposition of Amorphous CoP Nanowires Embedded in an Alumina Template. Journal of Spintronics and Magnetic Nanomaterials, 2012, 1, 23-27.	0.2	3
72	Effect of rounded corners on the magnetic properties of pyramidal-shaped shell structures. Journal of Applied Physics, 2012, 111, 07D127.	2.5	2

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73	An influence of mechanical deformations on crystal structure and spin configuration in magnetic nanowires. Journal of Applied Physics, 2013, 113, 17A334.	2.5	2
74	Effect of Pulse Electrodeposition on Properties of Nanocrystalline Nickel Coatings. Advanced Materials Research, 2013, 829, 410-415.	0.3	2
75	Crystal Structure and Coercivity of Electrodeposited Nickel Films. Solid State Phenomena, 2014, 215, 139-143.	0.3	2
76	Electrochemical nucleation and growth of Fe, Pt and Feâ€“Pt on n-type Si (001). Protection of Metals and Physical Chemistry of Surfaces, 2017, 53, 57-67.	1.1	2
77	Fundamentals and Principles of Electrode-Position. Springer Series in Surface Sciences, 2017, , 75-121.	0.3	2
78	Electrodeposited Nanocomposite Films. Springer Series in Surface Sciences, 2017, , 289-310.	0.3	2
79	Geometry-guided flux behaviour in superconducting Pb microcrystals. Journal of Physics: Conference Series, 2009, 150, 052048.	0.4	1
80	CONCEPTS IN NANOMAGNETISM AND SPINTRONICS. , 2010, , 1-17.		1
81	Influence of chemical disinfection on mechanical and structural properties of type III and IV dental stones. Advances in Applied Ceramics, 2012, 111, 450-458.	1.1	1
82	Magnetic Behavior of Single Ni Nanowires and its Arrays Embedded in Highly Ordered Nanoporous Alumina Templates. Solid State Phenomena, 0, 215, 298-305.	0.3	1
83	Piping Antiâ€“Corrosion Coating Life Assessment. , 2014, , .		1
84	Electrodeposition of 2D and 3D Meso and Nanostructures. Springer Series in Surface Sciences, 2017, , 123-185.	0.3	1
85	TiO2 nanotube arrays grafted with metals with enhanced electroactivity for electrochemical sensors and devices. , 2022, , 521-554.		1
86	Electrical transport properties of thin Ni films subjected to an array of nanomagnets. , 0, , .		0
87	The Effect of Duration of First and Second Anodization Steps on the Ordering of Nanopores in Anodic Aluminum Oxide Templates Achieved by Three Step Anodic Oxidation Process. , 2008, , .		0
88	Electron Spin Antiresonance in Magnetic Superlattices. AIP Conference Proceedings, 2011, , .	0.4	0
89	Effect of Barrier Layer on Fabrication of FePt Nanowires by Electrodeposition into Nanoporous Alumina Templates. Advanced Materials Research, 0, 829, 707-711.	0.3	0
90	Temperature Dependence of Magnetic Saturation in Electrodeposited Nanocrystalline Nickel Films. Solid State Phenomena, 0, 215, 292-297.	0.3	0

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91	Composition-dependent reorientation of magnetic anisotropy in electrodeposited CoNi nanowire arrays. , 2015, , .		0
92	Magnetic properties of electrodeposited nickel-MWCNT nanocomposite films. , 2015, , .		0
93	Miscellaneous Electrodeposited Nanostructures. Springer Series in Surface Sciences, 2017, , 311-318.	0.3	0
94	Preparation and Structure of Oxide and Reduced Nd(Fe_{1-x}Co_x)B Nanoparticles. Solid State Phenomena, 0, 312, 288-294.	0.3	0