

Farzad Nasirpouri

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3013315/publications.pdf>

Version: 2024-02-01

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	TiO ₂ nanotube arrays grafted with metals with enhanced electroactivity for electrochemical sensors and devices. , 2022, , 521-554.		1
2	Exploiting magnetic sediment co-electrodeposition mechanism in Ni-Al ₂ O ₃ nanocomposite coatings. Journal of Electroanalytical Chemistry, 2022, 907, 116052.	3.8	8
3	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
4	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
5	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
6	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
7	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
8	Microstructure, composition and magnetic properties of Nd-(Fe _{1-x} Co _x)-B oxide magnetic particles synthesized by Pechini-type chemical method. Advanced Powder Technology, 2021, 32, 3964-3979.	4.1	3
9	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
10	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
11	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
12	Electrodeposition of anticorrosion nanocoatings. , 2020, , 473-497.		12
13	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
14	A new approach to understanding the deficiency of backside illuminated dye-sensitized solar cells' fill factor as a result of cracking of the TNAs. Materials Today: Proceedings, 2019, 18, 501-509.	1.8	3
15	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
16	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
17	Geometrically designed domain wall trap in tri-segmented nickel magnetic nanowires for spintronics devices. Scientific Reports, 2019, 9, 9010.	3.3	29
18	Morphology- and magnetism-controlled electrodeposition of Ni nanostructures on TiO ₂ nanotubes for hybrid Ni/TiO ₂ functional applications. Ceramics International, 2019, 45, 11258-11269.	4.8	13

#	ARTICLE	IF	CITATIONS
19	Influence of pH level of artificial saliva on corrosion behavior and nickel ion release of a Ni-Cr-Mo alloy: an in vitro study. <i>Anti-Corrosion Methods and Materials</i> , 2019, 66, 746-756.	1.5	7
20	Effect of Morphology and Surface Modification of Silica Nanoparticles on the Electrodeposition and Corrosion Behavior of Zinc-Based Nanocomposite Coatings. <i>Journal of the Electrochemical Society</i> , 2019, 166, D1-D9.	2.9	27
21	Mesophase micelle-assisted electrodeposition and magnetisation behavior of meso-porous nickel films for efficient electrochemical energy and magnetic device applications. <i>Applied Surface Science</i> , 2019, 471, 776-785.	6.1	4
22	Corrosion Behavior of a Nickel-Base Dental Casting Alloy in Artificial Saliva Studied by Weight Loss and Polarization Techniques. <i>Frontiers in Dentistry</i> , 2019, 16, 13-20.	0.6	6
23	Variation of magnetic anisotropy and temperature-dependent FORC probing of compositionally tuned Co-Ni alloy nanowires. <i>Journal of Alloys and Compounds</i> , 2018, 732, 683-693.	5.5	36
24	Tuning substrate roughness to improve uniform growth and photocurrent response in anodic TiO ₂ nanotube arrays. <i>Ceramics International</i> , 2018, 44, 22671-22679.	4.8	13
25	Tuning surface morphology and crystallinity of anodic TiO ₂ nanotubes and their response to biomimetic bone growth for implant applications. <i>Surface and Coatings Technology</i> , 2017, 315, 163-171.	4.8	30
26	Structural Defect-Induced Bandgap Narrowing in Dopant-Free Anodic TiO ₂ Nanotubes. <i>ChemElectroChem</i> , 2017, 4, 1227-1235.	3.4	15
27	Cyclic voltammetry deposition of nickel nanoparticles on TiO ₂ nanotubes and their enhanced properties for electro-oxidation of methanol. <i>Journal of Electroanalytical Chemistry</i> , 2017, 797, 121-133.	3.8	59
28	Electrochemical nucleation and growth of Fe, Pt and Fe-Pt on n-type Si (001). <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2017, 53, 57-67.	1.1	2
29	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. <i>Thin Solid Films</i> , 2017, 640, 1-7.	1.8	10
30	Smart anti-corrosion self-healing zinc metal-based molybdate functionalized-mesoporous-silica (MCM-41) nanocomposite coatings. <i>RSC Advances</i> , 2017, 7, 51879-51887.	3.6	26
31	Fundamentals and Principles of Electrode-Position. <i>Springer Series in Surface Sciences</i> , 2017, , 75-121.	0.3	2
32	Electrodeposition of 2D and 3D Meso and Nanostructures. <i>Springer Series in Surface Sciences</i> , 2017, , 123-185.	0.3	1
33	Electrodeposited Nanocomposite Films. <i>Springer Series in Surface Sciences</i> , 2017, , 289-310.	0.3	2
34	Miscellaneous Electrodeposited Nanostructures. <i>Springer Series in Surface Sciences</i> , 2017, , 311-318.	0.3	0
35	Template Electrodeposition of Nanowires Arrays. <i>Springer Series in Surface Sciences</i> , 2017, , 187-259.	0.3	4
36	Electrodeposition of Nanostructured Materials. <i>Springer Series in Surface Sciences</i> , 2017, , .	0.3	29

#	ARTICLE	IF	CITATIONS
37	Compositionally graded Fe(1-x)-Pt(x) nanowires produced by alternating current electrodeposition into alumina templates. Journal of Solid State Chemistry, 2016, 244, 35-44.	2.9	7
38	Modification of Chemically Exfoliated Graphene to Produce Efficient Piezoresistive Polystyrene-Graphene Composites. Journal of Electronic Materials, 2015, 44, 3512-3522.	2.2	14
39	Composition-dependent reorientation of magnetic anisotropy in electrodeposited CoNi nanowire arrays. , 2015, , .		0
40	Electrodeposited Co _{93.2} Pt _{6.8} nanowire arrays with core-shell microstructure and perpendicular magnetic anisotropy. Journal of Applied Physics, 2015, 117, 17E715.	2.5	5
41	Magnetic properties of electrodeposited nickel-MWCNT nanocomposite films. , 2015, , .		0
42	Magnetic Properties of Electrodeposited Nickel-Multiwall Carbon Nanotube Composite Films. IEEE Transactions on Magnetics, 2015, 51, .	2.1	11
43	Conversion of magnetic anisotropy in electrodeposited Co-Ni alloy nanowires. Journal of Magnetism and Magnetic Materials, 2015, 383, 94-99.	2.3	21
44	Electropolishing behaviour of pure titanium in perchloric acid-methanol-ethylene glycol mixed solution. Transactions of the Institute of Metal Finishing, 2014, 92, 132-139.	1.3	26
45	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
46	Epoxy/polyaniline-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
47	Assessment of localized corrosion in carbon steel tube-grade AISI 1045 used in output oil-gas separator vessel of desalination unit in oil refinery industry. Engineering Failure Analysis, 2014, 40, 75-88.	4.0	25
48	A study on electrodeposition of Ni-noncovalently treated carbon nanotubes nanocomposite coatings with desirable mechanical and anti-corrosion properties. Surface and Coatings Technology, 2014, 248, 63-73.	4.8	36
49	Corrosion resistance of Ni-Co alloy and Ni-Co/SiC nanocomposite coatings electrodeposited by sediment codeposition technique. Applied Surface Science, 2014, 307, 351-359.	6.1	131
50	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
51	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
52	Crystal Structure and Coercivity of Electrodeposited Nickel Films. Solid State Phenomena, 2014, 215, 139-143.	0.3	2
53	Piping Anti-Corrosion Coating Life Assessment. , 2014, , .		1
54	Manipulating morphology, pore geometry and ordering degree of TiO ₂ nanotube arrays by anodic oxidation. Surface and Coatings Technology, 2013, 235, 727-734.	4.8	36

#	ARTICLE	IF	CITATIONS
55	Investigation of the porous nanostructured Cu/Ni/AuNi electrode for sodium borohydride electrooxidation. <i>Electrochimica Acta</i> , 2013, 114, 215-222.	5.2	39
56	Refinement of electrodeposition mechanism for fabrication of thin nickel films on n-type silicon (111). <i>Journal of Electroanalytical Chemistry</i> , 2013, 690, 136-143.	3.8	29
57	Roughness evolution of highly ordered nanoporous anodic aluminum oxide films. <i>Ionics</i> , 2013, 19, 535-542.	2.4	14
58	An influence of mechanical deformations on crystal structure and spin configuration in magnetic nanowires. <i>Journal of Applied Physics</i> , 2013, 113, 17A334.	2.5	2
59	Preparation and characterization of a novel conducting nanocomposite blended with epoxy coating for antifouling and antibacterial applications. <i>Journal of Coatings Technology Research</i> , 2013, 10, 679-694.	2.5	61
60	Caustic corrosion in a boiler waterside tube: Root cause and mechanism. <i>Engineering Failure Analysis</i> , 2013, 28, 69-77.	4.0	42
61	Failure analysis of monel packing in atmospheric distillation tower under the service in the presence of corrosive gases. <i>Engineering Failure Analysis</i> , 2013, 28, 241-251.	4.0	19
62	Effect of Pulse Electrodeposition on Properties of Nanocrystalline Nickel Coatings. <i>Advanced Materials Research</i> , 2013, 829, 410-415.	0.3	2
63	Electrochemical study of epoxy coating containing novel conducting nanocomposite comprising polyanilineâ€ZnO nanorods on low carbon steel. <i>Corrosion Engineering Science and Technology</i> , 2013, 48, 513-524.	1.4	22
64	Effect of rounded corners on the magnetic properties of pyramidal-shaped shell structures. <i>Journal of Applied Physics</i> , 2012, 111, 07D127.	2.5	2
65	Influence of chemical disinfection on mechanical and structural properties of type III and IV dental stones. <i>Advances in Applied Ceramics</i> , 2012, 111, 450-458.	1.1	1
66	Granulated media for nanoelectronic applications. <i>Journal of Physics: Conference Series</i> , 2012, 345, 012010.	0.4	3
67	High-density nickel nanowire arrays for data storage applications. <i>Journal of Physics: Conference Series</i> , 2012, 345, 012011.	0.4	33
68	Magnetic Properties of Nickel Nanowire Arrays Patterned by Template Electrodeposition. <i>Solid State Phenomena</i> , 2012, 190, 522-525.	0.3	4
69	AC Electrodeposition of Amorphous CoP Nanowires Embedded in an Alumina Template. <i>Journal of Spintronics and Magnetic Nanomaterials</i> , 2012, 1, 23-27.	0.2	3
70	Electron Spin Antiresonance in Magnetic Superlattices. <i>AIP Conference Proceedings</i> , 2011, , .	0.4	0
71	Electrodeposition and magnetic properties of three-dimensional bulk and shell nickel mesostructures. <i>Thin Solid Films</i> , 2011, 519, 8320-8325.	1.8	20
72	Geometry Dependent Magnetic Properties of Ni Nanowires Embedded in Self-Assembled Arrays. <i>Physics Procedia</i> , 2011, 22, 549-556.	1.2	8

#	ARTICLE	IF	CITATIONS
73	Tunable Distribution of Magnetic Nanodiscs in an Array of Electrodeposited Multilayered Nanowires. IEEE Transactions on Magnetics, 2011, 47, 2015-2021.	2.1	16
74	Effect of Size and Configuration on the Magnetization of Nickel Dot Arrays. IEEE Transactions on Magnetics, 2011, 47, 4695-4700.	2.1	8
75	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
76	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
77	Electrodeposition mechanism of nickel films on polycrystalline copper from dilute simple sulphate solutions. Russian Journal of Electrochemistry, 2011, 47, 787-792.	0.9	11
78	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
79	Double spin resonance in a spatially periodic magnetic field with zero average. Europhysics Letters, 2011, 94, 28001.	2.0	10
80	Three-dimensional ferromagnetic architectures with multiple metastable states. Applied Physics Letters, 2011, 98, .	3.3	8
81	CONCEPTS IN NANOMAGNETISM AND SPINTRONICS. , 2010, , 1-17.		1
82	Micromagnetic studies of three-dimensional pyramidal shell structures. New Journal of Physics, 2010, 12, 113048.	2.9	15
83	Nanomagnetism and Spintronics. , 2010, , .		7
84	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
85	Geometry-guided flux behaviour in superconducting Pb microcrystals. Journal of Physics: Conference Series, 2009, 150, 052048.	0.4	1
86	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
87	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
88	On the growth sequence of highly ordered nanoporous anodic aluminium oxide. Materials & Design, 2006, 27, 983-988.	5.1	52
89	Itinerant electron transport in microscopically inhomogeneous magnetic fields. Journal of Magnetism and Magnetic Materials, 2006, 299, 356-361.	2.3	8
90	Electrical transport properties of thin Ni films subjected to an array of nanomagnets. , 0, , .		0

#	ARTICLE	IF	CITATIONS
91	Effect of Barrier Layer on Fabrication of FePt Nanowires by Electrodeposition into Nanoporous Alumina Templates. <i>Advanced Materials Research</i> , 0, 829, 707-711.	0.3	0
92	Temperature Dependence of Magnetic Saturation in Electrodeposited Nanocrystalline Nickel Films. <i>Solid State Phenomena</i> , 0, 215, 292-297.	0.3	0
93	Magnetic Behavior of Single Ni Nanowires and its Arrays Embedded in Highly Ordered Nanoporous Alumina Templates. <i>Solid State Phenomena</i> , 0, 215, 298-305.	0.3	1
94	Preparation and Structure of Oxide and Reduced Nd(Fe _{1-x} Co _x)B Nanoparticles. <i>Solid State Phenomena</i> , 0, 312, 288-294.	0.3	0