Eva Pellicer

List of Publications by Year
in descending order

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220	6,781	43973	85405
papers	citations	48 h-index	71 g-index

225	225	225	8379
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lightweight macroporous Co-Pt electrodeposited films with semi-hard-magnetic properties. Materials and Design, 2022, 213, 110369.	3.3	1
2	Electrochemically Fabricated Surface-Mesostructured CuNi Bimetallic Catalysts for Hydrogen Production in Alkaline Media. Nanomaterials, 2022, 12, 118.	1.9	4
3	Oxygen reduction reaction and proton exchange membrane fuel cell performance of pulse electrodeposited Ptâ€“Ni and Ptâ€“Niâ€“Mo(O) nanoparticles. Materials Today Energy, 2022, 27, 101023.	2.5	3
4	Smart Cellulose Composites: Advanced Applications and Properties Prediction Using Machine Learning. , 2021, , 527-538.		2
5	Electroless Palladium-Coated Polymer Scaffolds for Electrical Stimulation of Osteoblast-Like Saos-2 Cells. International Journal of Molecular Sciences, 2021, 22, 528.	1.8	3
6	Full Optimization of an Electroless Nickel Solution: Boosting the Performance of Low-Phosphorous Coatings. Materials, 2021, 14, 1501.	1.3	10
7	ZnO Nanosheet-Coated TiZrPdSiNb Alloy as a Piezoelectric Hybrid Material for Self-Stimulating Orthopedic Implants. Biomedicines, 2021, 9, 352.	1.4	9
8	Recent advances in catalyst materials for proton exchange membrane fuel cells. APL Materials, 2021, 9, 040702.	2.2	28
9	Electroless copper plating obtained by Selective Metallisation using a Magnetic Field (SMMF). Electrochimica Acta, 2021, 389, 138763.	2.6	5
10	Biodegradable Smallâ€Scale Swimmers for Biomedical Applications. Advanced Materials, 2021, 33, e2102049.	11.1	44
11	Mechanical, magnetic and magnetostrictive properties of porous Fe-Ga films prepared by electrodeposition. Materials and Design, 2021, 208, 109915.	3.3	7
12	Magneto-ionic suppression of magnetic vortices. Science and Technology of Advanced Materials, 2021, 22, 972-984.	2.8	3
13	Mesoporous Ni-rich Niâ€“Pt thin films: Electrodeposition, characterization and performance toward hydrogen evolution reaction in acidic media. Applied Catalysis B: Environmental, 2020, 265, 118597.	10.8	76
14	A comparative study of the influence of the deposition technique (electrodeposition versus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 T Materials, 2020, 21, 424-434.	2.8	9
15	The order of addition and time matters: Impact of electrolyte processing on micelle-assisted electrosynthesis of mesoporous alloys. Electrochimica Acta, 2020, 358, 136940.	2.6	4
16	Electrochemical characterisation of multifunctional electrocatalytic mesoporous Ni-Pt thin films in alkaline and acidic media. Electrochimica Acta, 2020, 359, 136952.	2.6	13
17	Unraveling the properties of sharply defined submicron scale FeCu and FePd magnetic structures fabricated by electrodeposition onto electron-beam-lithographed substrates. Materials and Design, 2020, 193, 108826.	3.3	3
18	Impact of the multilayer approach on the tribocorrosion behaviour of nanocrystalline electroless nickel coatings obtained by different plating modes. Wear, 2020, 456-457, 203384.	1.5	7

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19	Tailoring magnetic and mechanical properties of mesoporous single-phase Niâ€“Pt films by electrodeposition. Nanoscale, 2020, 12, 7749-7758.	2.8	9
20	Enhancing Magneto-Ionic Effects in Magnetic Nanostructured Films via Conformal Deposition of Nanolayers with Oxygen Acceptor/Donor Capabilities. ACS Applied Materials & Interfaces, 2020, 12, 14484-14494.	4.0	12
21	Strain gradient mediated magnetoelectricity in Fe-Ga/P(VDF-TrFE) multiferroic bilayers integrated on silicon. Applied Materials Today, 2020, 19, 100579.	2.3	12
22	Magnetically and chemically propelled nanowire-based swimmers. , 2020, , 777-799.		7
23	Exploiting electrolyte confinement effects for the electrosynthesis of two-engine micromachines. Applied Materials Today, 2020, 19, 100629.	2.3	3
24	Selective electroless plating on non-conductive materials by applying a gradient of magnetic field. , 2020, , .		1
25	Nanoscale Ni-Mo-Pt Alloy Catalyst with Tuneable Composition for Hydrogen Economy: Electrosynthesis and Characterisation. ECS Meeting Abstracts, 2020, MA2020-02, 1402-1402.	0.0	0
26	3D Printing of Thermoplasticâ€Bonded Softâ€•and Hardâ€Magnetic Composites: Magnetically Tuneable Architectures and Functional Devices. Advanced Intelligent Systems, 2019, 1, 1900069.	3.3	16
27	e-MINDs: the COST Action on electrodeposition and corrosion of micro- and nanodevices that sprouted in 2015 and bore fruit. Transactions of the Institute of Metal Finishing, 2019, 97, 171-173.	0.6	2
28	Reversible, Electric-Field Induced Magneto-Ionic Control of Magnetism in Mesoporous Cobalt Ferrite Thin Films. Scientific Reports, 2019, 9, 10804.	1.6	21
29	Electric Field Control of Magnetism in Iron Oxide Nanoporous Thin Films. ACS Applied Materials & Interfaces, 2019, 11, 37338-37346.	4.0	24
30	â€˜Greenâ€™ Cr(<scp>iii</scp>)â€“glycine electrolyte for the production of FeCrNi coatings: electrodeposition mechanisms and role of by-products in terms of coating composition and microstructure. RSC Advances, 2019, 9, 25762-25775.	1.7	14
31	Inducing surface nanoporosity on Fe-based metallic glass matrix composites by selective dealloying. Materials Characterization, 2019, 153, 46-51.	1.9	13
32	Epitaxial Versus Polycrystalline Shape Memory Cu-Al-Ni Thin Films. Coatings, 2019, 9, 308.	1.2	2
33	Functional macroporous iron-phosphorous films by electrodeposition on colloidal crystal templates. Electrochimica Acta, 2019, 313, 211-222.	2.6	6
34	Nanocrystalline Electrodeposited Fe-W/Al2O3 Composites: Effect of Alumina Sub-microparticles on the Mechanical, Tribological, and Corrosion Properties. Frontiers in Chemistry, 2019, 7, 241.	1.8	7
35	Electrolyte-gated magnetoelectric actuation: Phenomenology, materials, mechanisms, and prospective applications. APL Materials, 2019, 7, .	2.2	66
36	Electrodeposition of Nanocrystalline Fe-P Coatings: Influence of Bath Temperature and Glycine Concentration on Structure, Mechanical and Corrosion Behavior. Coatings, 2019, 9, 189.	1.2	9

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37	Monolayered versus multilayered electroless NiP coatings: Impact of the plating approach on the microstructure, mechanical and corrosion properties of the coatings. Surface and Coatings Technology, 2019, 368, 138-146.	2.2	35
38	Imaging Technologies for Biomedical Microâ€•and Nanoswimmers. Advanced Materials Technologies, 2019, 4, 1800575.	3.0	83
39	Programmable Locomotion Mechanisms of Nanowires with Semihard Magnetic Properties Near a Surface Boundary. ACS Applied Materials & Interfaces, 2019, 11, 3214-3223.	4.0	23
40	The European Training Network SELECTA reaches its end. Transactions of the Institute of Metal Finishing, 2019, 97, 3-4.	0.6	0
41	Tunable Magnetism in Nanoporous CuNi Alloys by Reversible Voltageâ€Driven Elementâ€Selective Redox Processes. Small, 2018, 14, e1704396.	5.2	16
42	Fabrication of sustainable hydrophobic and oleophilic pseudo-ordered macroporous Feâ€“Cu films with tunable composition and pore size via electrodeposition through colloidal templates. Applied Materials Today, 2018, 12, 1-8.	2.3	8
43	Electrodeposited Ni-Based Magnetic Mesoporous Films as Smart Surfaces for Atomic Layer Deposition: An â€œAll-Chemicalâ€•Deposition Approach toward 3D Nanoengineered Composite Layers. ACS Applied Materials & Interfaces, 2018, 10, 14877-14885.	4.0	13
44	Structural and Magnetic Properties of Fe_xCu_{1â€“x} Sputtered Thin Films Electrochemically Treated To Create Nanoporosity for High-Surface-Area Magnetic Components. ACS Applied Nano Materials, 2018, 1, 1675-1682.	2.4	7
45	Cytocompatibility assessment of Tiâ€Zrâ€Pdâ€Siâ€(Nb) alloys with low Young's modulus, increased hardness, and enhanced osteoblast differentiation for biomedical applications. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 834-842.	1.6	9
46	Biodegradable Metals as Biomaterials for Clinical Practice: Iron-Based Materials. , 2018, , 225-280.		9
47	Mapping of magnetic and mechanical properties of Fe-W alloys electrodeposited from Fe(III)-based glycolate-citrate bath. Materials and Design, 2018, 139, 429-438.	3.3	42
48	Progress Beyond the State-of-the-Art in the Field of Metallic Materials for Bioimplant Applications. , 2018, , 25-46.		0
49	Micelleâ€Assisted Electrodeposition of Mesoporous Feâ€“Pt Smooth Thin Films and their Electrocatalytic Activity towards the Hydrogen Evolution Reaction. ChemSusChem, 2018, 11, 367-375.	3.6	22
50	Large Magnetoelectric Effects in Electrodeposited Nanoporous Microdisks Driven by Effective Surface Charging and Magneto-Ionics. ACS Applied Materials & Interfaces, 2018, 10, 44897-44905.	4.0	26
51	Voltage-Controlled ONâ€“OFF Ferromagnetism at Room Temperature in a Single Metal Oxide Film. ACS Nano, 2018, 12, 10291-10300.	7.3	57
52	Templateâ€Assisted Electroforming of Fully Semiâ€Hardâ€Magnetic Helical Microactuators. Advanced Engineering Materials, 2018, 20, 1800179.	1.6	19
53	Coercivity Modulation in Feâ€“Cu Pseudoâ€Ordered Porous Thin Films Controlled by an Applied Voltage: A Sustainable, Energyâ€Efficient Approach to Magnetoelectrically Driven Materials. Advanced Science, 2018, 5, 1800499.	5.6	15
54	Enhanced mechanical properties and microstructural modifications in electrodeposited Fe-W alloys through controlled heat treatments. Surface and Coatings Technology, 2018, 350, 20-30.	2.2	16

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55	Large magnetoelectric effects mediated by electric-field-driven nanoscale phase transformations in sputtered (nanoparticulate) and electrochemically dealloyed (nanoporous) Feâ€“Cu films. Nanoscale, 2018, 10, 14570-14578.	2.8	8
56	Synthesis of Î±-Fe2O3 and Fe-Mn Oxide Foams with Highly Tunable Magnetic Properties by the Replication Method from Polyurethane Templates. Materials, 2018, 11, 280.	1.3	10
57	Selective Metallization of Non-Conductive Materials by Patterning of Catalytic Particles and the Application of a Gradient Magnetic Field. ECS Transactions, 2018, 85, 69-78.	0.3	1
58	Electron Microscopy Characterization of Electrodeposited Homogeneous and Multilayered Nanowires in the Ni-Co-Cu System. Journal of the Electrochemical Society, 2018, 165, D536-D542.	1.3	11
59	Piezoelectrically Enhanced Photocatalysis with BiFeO3 Nanostructures for Efficient Water Remediation. IScience, 2018, 4, 236-246.	1.9	232
60	Electrodeposition of amorphous Fe-Cr-Ni stainless steel alloy with high corrosion resistance, low cytotoxicity and soft magnetic properties. Surface and Coatings Technology, 2018, 349, 745-751.	2.2	29
61	Protective coatings for intraocular wirelessly controlled microrobots for implantation: Corrosion, cell culture, and in vivo animal tests. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 836-845.	1.6	32
62	Thermal treatment effect on the mechanical, tribological and corrosion properties of Niâ€“W alloy obtained by direct and pulse plating electrodeposition. Transactions of the Institute of Metal Finishing, 2017, 95, 31-38.	0.6	10
63	Nanoindenting the Chelyabinsk Meteorite to Learn about Impact Deflection Effects in asteroids. Astrophysical Journal, 2017, 835, 157.	1.6	16
64	Parametric aqueous electrodeposition study and characterization of Feâ€“Cu films. Electrochimica Acta, 2017, 231, 739-748.	2.6	15
65	Nanoporous Fe-Based Alloy Prepared by Selective Dissolution: An Effective Fenton Catalyst for Water Remediation. ACS Omega, 2017, 2, 653-662.	1.6	12
66	Nanomechanics on FGF-2 and Heparin Reveal Slip Bond Characteristics with pH Dependency. ACS Biomaterials Science and Engineering, 2017, 3, 1000-1007.	2.6	6
67	Evaporation-induced self-assembly synthesis of Ni-doped mesoporous SnO₂ thin films with tunable room temperature magnetic properties. Journal of Materials Chemistry C, 2017, 5, 5517-5527.	2.7	19
68	Cross-sectioning spatio-temporal Co-In electrodeposits: Disclosing a magnetically-patterned nanolaminated structure. Materials and Design, 2017, 114, 202-207.	3.3	2
69	Comparative electrochemical oxidation of methyl orange azo dye using Ti/Ir-Pb, Ti/Ir-Sn, Ti/Ru-Pb, Ti/Pt-Pd and Ti/RuO 2 anodes. Electrochimica Acta, 2017, 244, 199-208.	2.6	64
70	Mid-term meeting of SELECTA: a European Training Network on smart electrodeposited alloys for environmentally sustainable applications. Transactions of the Institute of Metal Finishing, 2017, 95, 124-125.	0.6	7
71	Multiwavelength Light-Responsive Au/B-TiO₂ Janus Micromotors. ACS Nano, 2017, 11, 6146-6154.	7.3	155
72	A facile co-precipitation synthesis of heterostructured ZrO2 | ZnO nanoparticles as efficient photocatalysts for wastewater treatment. Journal of Materials Science, 2017, 52, 13779-13789.	1.7	18

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73	Mechanical behaviour of brushite and hydroxyapatite coatings electrodeposited on newly developed FeMnSiPd alloys. Journal of Alloys and Compounds, 2017, 729, 231-239.	2.8	23
74	Magnetic Actuation: Voltageâ€Induced Coercivity Reduction in Nanoporous Alloy Films: A Boost toward Energyâ€Efficient Magnetic Actuation (Adv. Funct. Mater. 32/2017). Advanced Functional Materials, 2017, 27, .	7.8	1
75	Self-templating faceted and spongy single-crystal ZnO nanorods: Resistive switching and enhanced piezoresponse. Materials and Design, 2017, 133, 54-61.	3.3	16
76	Voltageâ€Induced Coercivity Reduction in Nanoporous Alloy Films: A Boost toward Energyâ€Efficient Magnetic Actuation. Advanced Functional Materials, 2017, 27, 1701904.	7.8	41
77	Mechanical properties, corrosion performance and cell viability studies on newly developed porous Fe-Mn-Si-Pd alloys. Journal of Alloys and Compounds, 2017, 724, 1046-1056.	2.8	37
78	Advances in Applications of Industrial Biomaterials. , 2017, , .		22
79	Micelle-assisted electrodeposition of highly mesoporous Feâ€“Pt nodular films with soft magnetic and electrocatalytic properties. Nanoscale, 2017, 9, 18081-18093.	2.8	17
80	Ferromagnetic-like behaviour in bismuth ferrite films prepared by electrodeposition and subsequent heat treatment. RSC Advances, 2017, 7, 32133-32138.	1.7	12
81	Electrochemical Synthesis of Bismuth Particles: Tuning Particle Shape through Substrate Type within a Narrow Potential Window. Materials, 2017, 10, 43.	1.3	9
82	Biodegradable FeMnSi Sputter-Coated Macroporous Polypropylene Membranes for the Sustained Release of Drugs. Nanomaterials, 2017, 7, 155.	1.9	2
83	Unraveling the Origin of Magnetism in Mesoporous Cu-Doped SnO2 Magnetic Semiconductors. Nanomaterials, 2017, 7, 348.	1.9	12
84	Tri-segmented magnetic nanowires with antiparallel alignment: Suitable platforms for biomedical applications with minimized agglomeration?. , 2017, , .		0
85	Chelyabinsk Meteorite as a Proxy for Studying the Properties of Potentially Hazardous Asteroids and Impact Deflection Strategies. Thirty Years of Astronomical Discovery With UKIRT, 2017, , 219-241.	0.3	5
86	Frontiers in Mesoporous Nanomaterials. Nanomaterials, 2016, 6, 15.	1.9	3
87	The Influence of Pore Size on the Indentation Behavior of Metallic Nanoporous Materials: A Molecular Dynamics Study. Materials, 2016, 9, 355.	1.3	18
88	Reusable and Longâ€Lasting Active Microcleaners for Heterogeneous Water Remediation. Advanced Functional Materials, 2016, 26, 4152-4161.	7.8	66
89	Magnetic Nanowires: Toward Robust Segmented Nanowires: Understanding the Impact of Crystallographic Texture on the Quality of Segment Interfaces in Magnetic Metallic Nanowires (Adv.) Tj ETQq1 1 0.784314 rgBT /Over		
90	Room-temperature synthesis of three-dimensional porous ZnO@CuNi hybrid magnetic layers with photoluminescent and photocatalytic properties. Science and Technology of Advanced Materials, 2016, 17, 177-187.	2.8	4

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91	Modeling the collective magnetic behavior of highly-packed arrays of multi-segmented nanowires. New Journal of Physics, 2016, 18, 013026.	1.2	20
92	Electrodeposition of sizeable and compositionally tunable rhodium-iron nanoparticles and their activity toward hydrogen evolution reaction. Electrochimica Acta, 2016, 194, 263-275.	2.6	16
93	Novel Feâ€“Mnâ€“Siâ€“Pd alloys: insights into mechanical, magnetic, corrosion resistance and biocompatibility performances. Journal of Materials Chemistry B, 2016, 4, 6402-6412.	2.9	37
94	Nanomechanical behaviour of open-cell nanoporous metals: Homogeneous versus thickness-dependent porosity. Mechanics of Materials, 2016, 100, 167-174.	1.7	11
95	Electron energy-loss spectroscopic tomography of FexCo(3â^'x)O4 impregnated Co3O4 mesoporous particles: unraveling the chemical information in three dimensions. Analyst, The, 2016, 141, 4968-4972.	1.7	3
96	Dually actuated atomic force microscope with miniaturized magnetic bead-actuators for single-molecule force measurements. Nanoscale Horizons, 2016, 1, 488-495.	4.1	3
97	Toward Robust Segmented Nanowires: Understanding the Impact of Crystallographic Texture on the Quality of Segment Interfaces in Magnetic Metallic Nanowires. Advanced Materials Interfaces, 2016, 3, 1600336.	1.9	8
98	Conformal oxide nanocoatings on electrodeposited 3D porous Ni films by atomic layer deposition. Journal of Materials Chemistry C, 2016, 4, 8655-8662.	2.7	4
99	Nanocasting synthesis of mesoporous SnO₂ with a tunable ferromagnetic response through Ni loading. RSC Advances, 2016, 6, 104799-104807.	1.7	16
100	Spontaneous formation of spiral-like patterns with distinct periodic physical properties by confined electrodeposition of Co-In disks. Scientific Reports, 2016, 6, 30398.	1.6	9
101	e-MINDS: A networking COST initiative for surface finishers and corrosion scientists working in micro- and nanosystems technology. Transactions of the Institute of Metal Finishing, 2016, 94, 60-62.	0.6	3
102	Single step electrosynthesis of NiMnGa alloys. Electrochimica Acta, 2016, 204, 199-205.	2.6	3
103	Tailoring Staircase-like Hysteresis Loops in Electrodeposited Trisegmented Magnetic Nanowires: a Strategy toward Minimization of Interwire Interactions. ACS Applied Materials & Interfaces, 2016, 8, 4109-4117.	4.0	23
104	Toward uniform electrodeposition of magnetic Co-W mesowires arrays: direct versus pulse current deposition. Electrochimica Acta, 2016, 188, 589-601.	2.6	22
105	Electrochemically synthesized amorphous and crystalline nanowires: dissimilar nanomechanical behavior in comparison with homologous flat films. Nanoscale, 2016, 8, 1344-1351.	2.8	16
106	Sub-micron magnetic patterns and local variations of adhesion force induced in non-ferromagnetic amorphous steel by femtosecond pulsed laser irradiation. Applied Surface Science, 2016, 371, 399-406.	3.1	3
107	Ni-, Pt- and (Ni/Pt)-doped TiO2 nanophotocatalysts: A smart approach for sustainable degradation of Rhodamine B dye. Applied Catalysis B: Environmental, 2016, 181, 270-278.	10.8	85
108	Effect of Surface Modifications of Ti40Zr10Cu38Pd12 Bulk Metallic Glass and Ti-6Al-4V Alloy on Human Osteoblasts In Vitro Biocompatibility. PLoS ONE, 2016, 11, e0156644.	1.1	19

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109	Nanostructured Tiâ€Zrâ€Pdâ€Siâ€(Nb) bulk metallic composites: Novel biocompatible materials with superior mechanical strength and elastic recovery. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 1569-1579.	1.6	8
110	Structurally and mechanically tunable molybdenum oxide films and patterned submicrometer structures by electrodeposition. Electrochimica Acta, 2015, 173, 705-714.	2.6	27
111	Nanomechanical behavior of 3D porous metalâ€“ceramic nanocomposite Bi/Bi2O3 films. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 626, 150-158.	2.6	4
112	Multisegmented FeCo/Cu Nanowires: Electrosynthesis, Characterization, and Magnetic Control of Biomolecule Desorption. ACS Applied Materials & Interfaces, 2015, 7, 7389-7396.	4.0	54
113	The electrochemical manipulation of apolar solvent drops in aqueous electrolytes by altering the surface polarity of polypyrrole architectures. Electrochemistry Communications, 2015, 54, 32-35.	2.3	7
114	New binuclear copper(<scp>ii</scp>) coordination polymer based on mixed pyrazolic and oxalate ligands: structural characterization and mechanical properties. RSC Advances, 2015, 5, 32369-32375.	1.7	6
115	Shape-Switching Microrobots for Medical Applications: The Influence of Shape in Drug Delivery and Locomotion. ACS Applied Materials & Interfaces, 2015, 7, 6803-6811.	4.0	124
116	Magnetically driven Bi₂O₃/BiOCl-based hybrid microrobots for photocatalytic water remediation. Journal of Materials Chemistry A, 2015, 3, 23670-23676.	5.2	100
117	Mobility-Enhancing Coatings for Vitreoretinal Surgical Devices: Hydrophilic and Enzymatic Coatings Investigated by Microrheology. ACS Applied Materials & Interfaces, 2015, 7, 22018-22028.	4.0	9
118	The biocompatibility and anti-biofouling properties of magnetic coreâ€“multishell Fe@C NWsâ€“AAO nanocomposites. Physical Chemistry Chemical Physics, 2015, 17, 13274-13279.	1.3	3
119	Evaluation of the anatase/rutile phase composition influence on the photocatalytic performances of mesoporous TiO2 powders. International Journal of Hydrogen Energy, 2015, 40, 14483-14491.	3.8	23
120	Ordered Mesoporous Nanomaterials. Nanomaterials, 2014, 4, 902-904.	1.9	0
121	Design of New N-polyether Pyrazole Derived Ligands: Synthesis, Characterization and Regioselectivity. Current Organic Synthesis, 2014, 11, 149-155.	0.7	3
122	Improvement to the Corrosion Resistance of Ti-Based Implants Using Hydrothermally Synthesized Nanostructured Anatase Coatings. Materials, 2014, 7, 180-194.	1.3	50
123	Lithography: Hybrid Helical Magnetic Microrobots Obtained by 3D Template-Assisted Electrodeposition (Small 7/2014). Small, 2014, 10, 1234-1234.	5.2	3
124	Drastic influence of minor Fe or Co additions on the glass forming ability, martensitic transformations and mechanical properties of shape memory Zrâ€“Cuâ€“Al bulk metallic glass composites. Science and Technology of Advanced Materials, 2014, 15, 035015.	2.8	14
125	Structural and mechanical modifications induced on Cu47.5Zr47.5Al5 metallic glass by surface laser treatments. Applied Surface Science, 2014, 290, 188-193.	3.1	19
126	In vitro biocompatibility assessment of Ti40Cu38Zr10Pd12 bulk metallic glass. Journal of Materials Science: Materials in Medicine, 2014, 25, 163-172.	1.7	19

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127	Hybrid Helical Magnetic Microrobots Obtained by 3D Templateâ€Assisted Electrodeposition. Small, 2014, 10, 1284-1288.	5.2	124
128	Electrodeposition of magnetic, superhydrophobic, non-stick, two-phase Cuâ€“Ni foam films and their enhanced performance for hydrogen evolution reaction in alkaline water media. Nanoscale, 2014, 6, 12490-12499.	2.8	84
129	Self-organized spatio-temporal micropatterning in ferromagnetic Coâ€“In films. Journal of Materials Chemistry C, 2014, 2, 8259-8269.	2.7	9
130	Fabrication of Segmented Au/Co/Au Nanowires: Insights in the Quality of Co/Au Junctions. ACS Applied Materials & Interfaces, 2014, 6, 14583-14589.	4.0	40
131	One-pot electrosynthesis of multi-layered magnetic metallopolymer nanocomposites. Nanoscale, 2014, 6, 4683.	2.8	11
132	Facile in Situ Synthesis of BiOCl Nanoplates Stacked to Highly Porous TiO₂: A Synergistic Combination for Environmental Remediation. ACS Applied Materials & Interfaces, 2014, 6, 13994-14000.	4.0	46
133	Influence of the irradiation temperature on the surface structure and physical/chemical properties of Ar ion-irradiated bulk metallic glasses. Journal of Alloys and Compounds, 2014, 610, 118-125.	2.8	13
134	Effect of Thermally-Induced Surface Oxidation on the Mechanical Properties and Corrosion Resistance of Zr60Cu25Al10Fe5 Bulk Metallic Glass. Science of Advanced Materials, 2014, 6, 27-36.	0.1	4
135	White-light photoluminescence and photoactivation in cadmium sulfide embedded in mesoporous silicon dioxide templates studied by confocal laser scanning microscopy. Journal of Colloid and Interface Science, 2013, 407, 47-59.	5.0	8
136	Ammonia-free infiltration of NaBH4 into highly-ordered mesoporous silica and carbon matrices for hydrogen storage. Journal of Alloys and Compounds, 2013, 580, S309-S312.	2.8	18
137	Mesoporous Oxide-Diluted Magnetic Semiconductors Prepared by Co Implantation in Nanocast 3D-Ordered In₂O_{3â€“y} Materials. Journal of Physical Chemistry C, 2013, 117, 17084-17091.	1.5	18
138	Tailoring the physical properties of electrodeposited CoNiReP alloys with large Re content by direct, pulse, and reverse pulse current techniques. Electrochimica Acta, 2013, 96, 43-50.	2.6	8
139	Influence of the shot-peening intensity on the structure and near-surface mechanical properties of Ti40Zr10Cu38Pd12 bulk metallic glass. Applied Physics Letters, 2013, 103, 211907.	1.5	18
140	Ordered arrays of ferromagnetic, compositionally graded Cu1â^'xNix alloy nanopillars prepared by template-assisted electrodeposition. Journal of Materials Chemistry C, 2013, 1, 7215.	2.7	11
141	Highly ordered mesoporous magnesium niobate high-Î¹ dielectric ceramic: synthesis, structural/mechanical characterization and thermal stability. Journal of Materials Chemistry C, 2013, 1, 4948.	2.7	4
142	Anodic formation of self-organized Ti(Nb,Sn) oxide nanotube arrays with tuneable aspect ratio and size distribution. Electrochemistry Communications, 2013, 33, 84-87.	2.3	10
143	Structural, magnetic, and mechanical properties of electrodeposited cobaltâ€“tungsten alloys: Intrinsic and extrinsic interdependencies. Electrochimica Acta, 2013, 104, 94-103.	2.6	81
144	Iron Nanowires: Graphite Coating of Iron Nanowires for Nanorobotic Applications: Synthesis, Characterization and Magnetic Wireless Manipulation (Adv. Funct. Mater. 7/2013). Advanced Functional Materials, 2013, 23, 782-782.	7.8	0

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145	Codeposition of inorganic fullerene-like WS2 nanoparticles in an electrodeposited nickel matrix under the influence of ultrasonic agitation. Electrochimica Acta, 2013, 114, 859-867.	2.6	70
146	Controlled 3D-coating of the pores of highly ordered mesoporous antiferromagnetic Co3O4 replicas with ferrimagnetic FexCo3â^'xO4 nanolayers. Nanoscale, 2013, 5, 5561.	2.8	12
147	Improved plasticity and corrosion behavior in Tiâ€“Zrâ€“Cuâ€“Pd metallic glass with minor additions of Nb: An alloy composition intended for biomedical applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 559, 159-164.	2.6	40
148	Chemical State, Distribution, and Role of Ti- and Nb-Based Additives on the Ca(BH₄)₂ System. Journal of Physical Chemistry C, 2013, 117, 4394-4403.	1.5	25
149	3D hierarchically porous Cuâ€“BiOCl nanocomposite films: one-step electrochemical synthesis, structural characterization and nanomechanical and photoluminescent properties. Nanoscale, 2013, 5, 12542.	2.8	33
150	Cobaltâ€“nickel microcantilevers for biosensing. Journal of Intelligent Material Systems and Structures, 2013, 24, 2215-2220.	1.4	4
151	Nanocasting of Mesoporous Inâ€TM (TM = Co, Fe, Mn) Oxides: Towards 3D Dilutedâ€Oxide Magnetic Semiconductor Architectures. Advanced Functional Materials, 2013, 23, 900-911.	7.8	38
152	On the biodegradability, mechanical behavior, and cytocompatibility of amorphous Mg₇₂Zn₂₃Ca₅ and crystalline Mg₇₀Zn₂₃Ca₅Pd₂ alloys as temporary implant materials. Journal of Biomedical Materials Research - Part A, 2013, 101A, 502-517.	2.1	24
153	Graphite Coating of Iron Nanowires for Nanorobotic Applications: Synthesis, Characterization and Magnetic Wireless Manipulation. Advanced Functional Materials, 2013, 23, 823-831.	7.8	48
154	Novel Tiâ€“Zrâ€“Hfâ€“Fe Nanostructured Alloy for Biomedical Applications. Materials, 2013, 6, 4930-4945.	1.3	30
155	Hard and Transparent Films Formed by Nanocelluloseâ€“TiO2 Nanoparticle Hybrids. PLoS ONE, 2012, 7, e45828.	1.1	78
156	EEL spectroscopic tomography: Towards a new dimension in nanomaterials analysis. Ultramicroscopy, 2012, 122, 12-18.	0.8	37
157	Deformation and fracture behavior of corrosion-resistant, potentially biocompatible, Ti40Zr10Cu38Pd12 bulk metallic glass. Journal of Alloys and Compounds, 2012, 536, S74-S77.	2.8	6
158	Mechanical and corrosion behaviour of as-cast and annealed Zr60Cu20Al10Fe5Ti5 bulk metallic glass. Intermetallics, 2012, 28, 149-155.	1.8	31
159	Modern trends in tungsten alloys electrodeposition with iron group metals. Surface Engineering and Applied Electrochemistry, 2012, 48, 491-520.	0.3	164
160	Nanostructured Î²-phase Tiâ€“31.0Feâ€“9.0Sn and sub-Î¼m structured Tiâ€“39.3Nbâ€“13.3Zrâ€“10.7Ta alloys for biomedical applications: Microstructure benefits on the mechanical and corrosion performances. Materials Science and Engineering C, 2012, 32, 2418-2425.	3.8	90
161	Hydrogen storage in 2NaBH4+MgH2 mixtures: Destabilization by additives and nanoconfinement. Journal of Alloys and Compounds, 2012, 536, S236-S240.	2.8	21
162	Helical and Tubular Lipid Microstructures that are Electrolessâ€Coated with CoNiReP for Wireless Magnetic Manipulation. Small, 2012, 8, 1498-1502.	5.2	51

#	Article	IF	Citations
163	Improved mechanical performance and delayed corrosion phenomena in biodegradable Mgâ€“Znâ€“Ca alloys through Pd-alloying. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 6, 53-62.	1.5	72
164	Nanoscale phase separation in coated Ag nanoparticles. Nanoscale, 2011, 3, 4220.	2.8	4
165	Grain Boundary Segregation and Interdiffusion Effects in Nickelâ€“Copper Alloys: An Effective Means to Improve the Thermal Stability of Nanocrystalline Nickel. ACS Applied Materials & Interfaces, 2011, 3, 2265-2274.	4.0	63
166	A comparison between fine-grained and nanocrystalline electrodeposited Cuâ€“Ni films. Insights on mechanical and corrosion performance. Surface and Coatings Technology, 2011, 205, 5285-5293.	2.2	56
167	Enhanced mechanical properties and in vitro corrosion behavior of amorphous and devitrified Ti40Zr10Cu38Pd12 metallic glass. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 1709-1717.	1.5	97
168	Effects of the anion in glycine-containing electrolytes on the mechanical properties of electrodeposited Coâ€“Ni films. Materials Chemistry and Physics, 2011, 130, 1380-1386.	2.0	39
169	The effect of saccharine on the localized electrochemical deposition of Cu-rich Cuâ€“Ni microcolumns. Electrochemistry Communications, 2011, 13, 973-976.	2.3	21
170	High-performance electrodeposited Co-rich CoNiReP permanent magnets. Electrochimica Acta, 2011, 56, 8979-8988.	2.6	9
171	Influence of the preparation method on the morphology of templated NiCo2O4 spinel. Journal of Nanoparticle Research, 2011, 13, 3671-3681.	0.8	9
172	Nanorobotic drug delivery. Materials Today, 2011, 14, 54.	8.3	8
173	Morphology, structure and magnetic properties of cobaltâ€“nickel films obtained from acidic electrolytes containing glycine. Electrochimica Acta, 2011, 56, 1399-1408.	2.6	93
174	Electrodeposition of cobaltâ€“yttrium hydroxide/oxide nanocomposite films from particle-free aqueous baths containing chloride salts. Electrochimica Acta, 2011, 56, 5142-5150.	2.6	20
175	Hydrogen sorption performance of MgH2 doped with mesoporous nickel- and cobalt-based oxides. International Journal of Hydrogen Energy, 2011, 36, 5400-5410.	3.8	81
176	Structural and magnetic characterization of batch-fabricated nickel encapsulated multi-walled carbon nanotubes. Nanotechnology, 2011, 22, 275713.	1.3	19
177	Synthesis and structural properties of ultra-small oxide (TiO2, ZrO2, SnO2) nanoparticles prepared by decomposition of metal alkoxides. Materials Chemistry and Physics, 2010, 124, 809-815.	2.0	15
178	Nanocrystalline Electroplated Cuâ€“Ni: Metallic Thin Films with Enhanced Mechanical Properties and Tunable Magnetic Behavior. Advanced Functional Materials, 2010, 20, 983-991.	7.8	92
179	Synthesis of compositionally graded nanocast NiO/NiCo2O4/Co3O4 mesoporous composites with tunable magnetic properties. Journal of Materials Chemistry, 2010, 20, 7021.	6.7	81
180	Plasma-activated multi-walled carbon nanotubeâ€“polystyrene composite substrates for biosensing. Nanotechnology, 2009, 20, 335501.	1.3	36

#	Article	IF	Citations
181	Assessment of catalyst particle removal in multi-wall carbon nanotubes by highly sensitive magnetic measurements. Carbon, 2009, 47, 758-763.	5.4	10
182	Metal Oxide Nanocrystals from the Injection of Metal Oxide Sols in a Coordinating Environment: Principles, Applicability, and Investigation of the Synthesis Variables in the Case Study of CeO₂ and SnO₂. Chemistry of Materials, 2009, 21, 862-870.	3.2	16
183	Mesoporous NiCo₂O₄ Spinel: Influence of Calcination Temperature over Phase Purity and Thermal Stability. Crystal Growth and Design, 2009, 9, 4814-4821.	1.4	78
184	Gadolinium doped Ceria nanocrystals synthesized from mesoporous silica. Journal of Nanoparticle Research, 2008, 10, 369-375.	0.8	18
185	Steam Purification for the Removal of Graphitic Shells Coating Catalytic Particles and the Shortening of Singleâ€Walled Carbon Nanotubes. Small, 2008, 4, 1501-1506.	5.2	76
186	Insight into the Role of Oxygen Diffusion in the Sensing Mechanisms of SnO₂ Nanowires. Advanced Functional Materials, 2008, 18, 2990-2994.	7.8	96
187	On the structural characterization of BaTiO3â€“CuO as CO2 sensing material. Sensors and Actuators B: Chemical, 2008, 133, 315-320.	4.0	30
188	Discriminating the carboxylic groups from the total acidic sites in oxidized multi-wall carbon nanotubes by means of acidâ€“base titration. Chemical Physics Letters, 2008, 462, 256-259.	1.2	62
189	NEUTRON ACTIVATION OF ENGINEERED NANOPARTICLES AS A TOOL FOR TRACING THEIR ENVIRONMENTAL FATE AND UPTAKE IN ORGANISMS. Environmental Toxicology and Chemistry, 2008, 27, 1883.	2.2	72
190	Assessment of the thermal stability of anodic alumina membranes at high temperatures. Materials Chemistry and Physics, 2008, 111, 542-547.	2.0	61
191	Synthesis and Gas-Sensing Properties of Pd-Doped SnO₂ Nanocrystals. A Case Study of a General Methodology for Doping Metal Oxide Nanocrystals. Crystal Growth and Design, 2008, 8, 1774-1778.	1.4	69
192	The Role of Surface Oxygen Vacancies in the NO₂ Sensing Properties of SnO₂ Nanocrystals. Journal of Physical Chemistry C, 2008, 112, 19540-19546.	1.5	181
193	Capping Ligand Effects on the Amorphous-to-Crystalline Transition of CdSe Nanoparticles. Langmuir, 2008, 24, 11182-11188.	1.6	36
194	The role of oxygen vacancies in the sensing properties of SnO<inf>2</inf> nanocrystals. , 2008, , .		1
195	Two Different Structures of Crystalline Mesoporous Indium Oxide Obtained by Nanocasting Process. , 2008, , 311-312.		0
196	Electrical properties of individual tin oxide nanowires contacted to platinum electrodes. Physical Review B, 2007, 76, .	1.1	105
197	Water vapor detection with individual tin oxide nanowires. Nanotechnology, 2007, 18, 424016.	1.3	59
198	Growth of CdSe Nanocrystals by a Catalytic Redox Activation of Ostwald Ripening:â€‰ A Case Study of the Concept of Traveling Solubility Perturbation. Chemistry of Materials, 2007, 19, 4919-4924.	3.2	10

#	Article	IF	Citations
199	Nanocrystals as Very Active Interfaces:â€‰Ultrasensitive Room-Temperature Ozone Sensors with In₂O₃ Nanocrystals Prepared by a Low-Temperature Solâ^'Gel Process in a Coordinating Environment. Journal of Physical Chemistry C, 2007, 111, 13967-13971.	1.5	38
200	Portable microsensors based on individual SnO₂nanowires. Nanotechnology, 2007, 18, 495501.	1.3	68
201	Synthesis and Characterization of Chromium-Doped Mesoporous Tungsten Oxide for Gas Sensing Applications. Advanced Functional Materials, 2007, 17, 1801-1806.	7.8	241
202	A Novel Mesoporous CaOâ€Loaded In₂O₃ Material for CO₂ Sensing. Advanced Functional Materials, 2007, 17, 2957-2963.	7.8	129
203	Mesostructured pure and copper-catalyzed tungsten oxide for NO2 detection. Sensors and Actuators B: Chemical, 2007, 126, 18-23.	4.0	48
204	Molybdenum alloy electrodeposits for magnetic actuation. Electrochimica Acta, 2006, 51, 3214-3222.	2.6	30
205	Use of the reverse pulse plating method to improve the properties of cobaltâ€“molybdenum electrodeposits. Surface and Coatings Technology, 2006, 201, 2351-2357.	2.2	55
206	Mesostructured WO3 as a sensing material for NO2 detection. Materials Research Society Symposia Proceedings, 2006, 915, 1.	0.1	0
207	An approach to the first stages of cobaltâ€“nickelâ€“molybdenum electrodeposition in sulphateâ€“citrate medium. Journal of Electroanalytical Chemistry, 2005, 580, 222-230.	1.9	33
208	Intermediate molybdenum oxides involved in binary and ternary induced electrodeposition. Journal of Electroanalytical Chemistry, 2005, 580, 238-244.	1.9	31
209	Structural, magnetic and corrosion properties of electrodeposited cobaltâ€“nickelâ€“molybdenum alloys. Electrochemistry Communications, 2005, 7, 275-281.	2.3	34
210	Developing plating baths for the production of cobaltâ€“molybdenum films. Surface and Coatings Technology, 2005, 197, 238-246.	2.2	39
211	Electrodeposition of cobalt based alloys for MEMS applications. Transactions of the Institute of Metal Finishing, 2005, 83, 248-254.	0.6	13
212	Properties of Co-Mo coatings obtained by electrodeposition at pHï¿½6.6. Journal of Solid State Electrochemistry, 2004, 8, 497-504.	1.2	47
213	Electrodeposition of soft-magnetic cobaltâ€“molybdenum coatings containing low molybdenum percentages. Journal of Electroanalytical Chemistry, 2004, 568, 29-36.	1.9	43
214	Microstructures of soft-magnetic cobaltâ€“molybdenum alloy obtained by electrodeposition on seed layer/silicon substrates. Electrochemistry Communications, 2004, 6, 853-859.	2.3	32
215	Extracting deposition parameters for cobaltâ€“molybdenum alloy from potentiostatic current transients. Physical Chemistry Chemical Physics, 2004, 6, 1340-1344.	1.3	13
216	Title is missing!. Journal of Applied Electrochemistry, 2003, 33, 245-252.	1.5	57

#	Article	IF	Citations
217	Influence of the bath composition and the pH on the induced cobaltâ€“molybdenum electrodeposition. Journal of Electroanalytical Chemistry, 2003, 556, 137-145.	1.9	81
218	Electrodeposited cobaltî—¸molybdenum magnetic materials. Journal of Electroanalytical Chemistry, 2001, 517, 109-116.	1.9	73
219	Biodegradation and Mechanical Integrity of Magnesium and Magnesium Alloys Suitable for Implants. , 0, , .		3
220	Oxide-Matrix Based Nanocomposite Materials for Advanced Magnetic and Optical Functionalities. , 0, , .		1