Eva Pellicer

List of Publications by Year
in descending order

220 papers	6,781 citations	43973 48 h-index	85405 71 g-index
225 all docs	225 docs citations	225 times ranked	8379 citing authors

#	Article	IF	Citations
1	Synthesis and Characterization of Chromium-Doped Mesoporous Tungsten Oxide for Gas Sensing Applications. Advanced Functional Materials, 2007, 17, 1801-1806.	7.8	241
2	Piezoelectrically Enhanced Photocatalysis with BiFeO3 Nanostructures for Efficient Water Remediation. IScience, 2018, 4, 236-246.	1.9	232
3	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
4	Modern trends in tungsten alloys electrodeposition with iron group metals. Surface Engineering and Applied Electrochemistry, 2012, 48, 491-520.	0.3	164
5	Multiwavelength Light-Responsive Au/B-TiO₂ Janus Micromotors. ACS Nano, 2017, 11, 6146-6154.	7.3	155
6	A Novel Mesoporous CaOâ€Loaded In₂O₃ Material for CO₂ Sensing. Advanced Functional Materials, 2007, 17, 2957-2963.	7.8	129
7	Hybrid Helical Magnetic Microrobots Obtained by 3D Templateâ€Assisted Electrodeposition. Small, 2014, 10, 1284-1288.	5.2	124
8	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
9	Electrical properties of individual tin oxide nanowires contacted to platinum electrodes. Physical Review B, 2007, 76, .	1.1	105
10	Magnetically driven Bi₂O₃/BiOCl-based hybrid microrobots for photocatalytic water remediation. Journal of Materials Chemistry A, 2015, 3, 23670-23676.	5.2	100
11	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
12	Insight into the Role of Oxygen Diffusion in the Sensing Mechanisms of SnO₂ Nanowires. Advanced Functional Materials, 2008, 18, 2990-2994.	7.8	96
13	Morphology, structure and magnetic properties of cobaltâ€“nickel films obtained from acidic electrolytes containing glycine. Electrochimica Acta, 2011, 56, 1399-1408.	2.6	93
14	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
15	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
16	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
17	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
18	Imaging Technologies for Biomedical Microâ€•and Nanoswimmers. Advanced Materials Technologies, 2019, 4, 1800575.	3.0	83

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19	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
20	Synthesis of compositionally graded nanocast NiO/NiCo2O4/Co3O4 mesoporous composites with tunable magnetic properties. Journal of Materials Chemistry, 2010, 20, 7021.	6.7	81
21	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
22	Structural, magnetic, and mechanical properties of electrodeposited cobaltâ€"tungsten alloys: Intrinsic and extrinsic interdependencies. Electrochimica Acta, 2013, 104, 94-103.	2.6	81
23	Mesoporous NiCo₂O₄ Spinel: Influence of Calcination Temperature over Phase Purity and Thermal Stability. Crystal Growth and Design, 2009, 9, 4814-4821.	1.4	78
24	Hard and Transparent Films Formed by Nanocelluloseâ€"TiO2 Nanoparticle Hybrids. PLoS ONE, 2012, 7, e45828.	1.1	78
25	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
26	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
27	Electrodeposited cobaltî—¸molybdenum magnetic materials. Journal of Electroanalytical Chemistry, 2001, 517, 109-116.	1.9	73
28	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
29	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
30	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
31	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
32	Portable microsensors based on individual SnO₂nanowires. Nanotechnology, 2007, 18, 495501.	1.3	68
33	Reusable and Longâ€Lasting Active Microcleaners for Heterogeneous Water Remediation. Advanced Functional Materials, 2016, 26, 4152-4161.	7.8	66
34	Electrolyte-gated magnetoelectric actuation: Phenomenology, materials, mechanisms, and prospective applications. APL Materials, 2019, 7, .	2.2	66
35	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
36	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

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37	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
38	Assessment of the thermal stability of anodic alumina membranes at high temperatures. Materials Chemistry and Physics, 2008, 111, 542-547.	2.0	61
39	Water vapor detection with individual tin oxide nanowires. Nanotechnology, 2007, 18, 424016.	1.3	59
40	Title is missing!. Journal of Applied Electrochemistry, 2003, 33, 245-252.	1.5	57
41	Voltage-Controlled ONâ€“OFF Ferromagnetism at Room Temperature in a Single Metal Oxide Film. ACS Nano, 2018, 12, 10291-10300.	7.3	57
42	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
43	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
44	Multisegmented FeCo/Cu Nanowires: Electrosynthesis, Characterization, and Magnetic Control of Biomolecule Desorption. ACS Applied Materials & Interfaces, 2015, 7, 7389-7396.	4.0	54
45	Helical and Tubular Lipid Microstructures that are Electrolessâ€Coated with CoNiReP for Wireless Magnetic Manipulation. Small, 2012, 8, 1498-1502.	5.2	51
46	Improvement to the Corrosion Resistance of Ti-Based Implants Using Hydrothermally Synthesized Nanostructured Anatase Coatings. Materials, 2014, 7, 180-194.	1.3	50
47	Mesostructured pure and copper-catalyzed tungsten oxide for NO2 detection. Sensors and Actuators B: Chemical, 2007, 126, 18-23.	4.0	48
48	Graphite Coating of Iron Nanowires for Nanorobotic Applications: Synthesis, Characterization and Magnetic Wireless Manipulation. Advanced Functional Materials, 2013, 23, 823-831.	7.8	48
49	Properties of Co-Mo coatings obtained by electrodeposition at pHï¿½6.6. Journal of Solid State Electrochemistry, 2004, 8, 497-504.	1.2	47
50	Facile <i>in Situ</i> 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
51	Biodegradable Smallâ€Scale Swimmers for Biomedical Applications. Advanced Materials, 2021, 33, e2102049.	11.1	44
52	Electrodeposition of soft-magnetic cobaltâ€“molybdenum coatings containing low molybdenum percentages. Journal of Electroanalytical Chemistry, 2004, 568, 29-36.	1.9	43
53	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
54	Voltageâ€Induced Coercivity Reduction in Nanoporous Alloy Films: A Boost toward Energyâ€Efficient Magnetic Actuation. Advanced Functional Materials, 2017, 27, 1701904.	7.8	41

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55	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
56	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
57	Developing plating baths for the production of cobaltâ€“molybdenum films. Surface and Coatings Technology, 2005, 197, 238-246.	2.2	39
58	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
59	Nanocrystals as Very Active Interfaces:â€‰ Ultrasensitive Room-Temperature Ozone Sensors with In₂O₃ Nanocrystals Prepared by a Low-Temperature Solâˆ’Gel Process in a Coordinating Environment. Journal of Physical Chemistry C, 2007, 111, 13967-13971.	1.5	38
60	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
61	EEL spectroscopic tomography: Towards a new dimension in nanomaterials analysis. Ultramicroscopy, 2012, 122, 12-18.	0.8	37
62	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
63	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
64	Capping Ligand Effects on the Amorphous-to-Crystalline Transition of CdSe Nanoparticles. Langmuir, 2008, 24, 11182-11188.	1.6	36
65	Plasma-activated multi-walled carbon nanotubeâ€“polystyrene composite substrates for biosensing. Nanotechnology, 2009, 20, 335501.	1.3	36
66	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
67	Structural, magnetic and corrosion properties of electrodeposited cobaltâ€“nickelâ€“molybdenum alloys. Electrochemistry Communications, 2005, 7, 275-281.	2.3	34
68	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
69	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
70	Microstructures of soft-magnetic cobaltâ€“molybdenum alloy obtained by electrodeposition on seed layer/silicon substrates. Electrochemistry Communications, 2004, 6, 853-859.	2.3	32
71	Protective coatings for intraocular wirelessly controlled microrobots for implantation: Corrosion, cell culture, and <i>in vivo</i> animal tests. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 836-845.	1.6	32
72	Intermediate molybdenum oxides involved in binary and ternary induced electrodeposition. Journal of Electroanalytical Chemistry, 2005, 580, 238-244.	1.9	31

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73	Mechanical and corrosion behaviour of as-cast and annealed Zr60Cu20Al10Fe5Ti5 bulk metallic glass. Intermetallics, 2012, 28, 149-155.	1.8	31
74	Molybdenum alloy electrodeposits for magnetic actuation. Electrochimica Acta, 2006, 51, 3214-3222.	2.6	30
75	On the structural characterization of BaTiO3â€“CuO as CO2 sensing material. Sensors and Actuators B: Chemical, 2008, 133, 315-320.	4.0	30
76	Novel Tiâ€“Zrâ€“Hfâ€“Fe Nanostructured Alloy for Biomedical Applications. Materials, 2013, 6, 4930-4945.	1.3	30
77	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
78	Recent advances in catalyst materials for proton exchange membrane fuel cells. APL Materials, 2021, 9, 040702.	2.2	28
79	Structurally and mechanically tunable molybdenum oxide films and patterned submicrometer structures by electrodeposition. Electrochimica Acta, 2015, 173, 705-714.	2.6	27
80	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
81	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
82	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
83	Electric Field Control of Magnetism in Iron Oxide Nanoporous Thin Films. ACS Applied Materials & Interfaces, 2019, 11, 37338-37346.	4.0	24
84	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
85	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
86	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
87	Programmable Locomotion Mechanisms of Nanowires with Semihard Magnetic Properties Near a Surface Boundary. ACS Applied Materials & Interfaces, 2019, 11, 3214-3223.	4.0	23
88	Toward uniform electrodeposition of magnetic Co-W mesowires arrays: direct versus pulse current deposition. Electrochimica Acta, 2016, 188, 589-601.	2.6	22
89	Advances in Applications of Industrial Biomaterials. , 2017, , .		22
90	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

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91	The effect of saccharine on the localized electrochemical deposition of Cu-rich Cuâ€“Ni microcolumns. Electrochemistry Communications, 2011, 13, 973-976.	2.3	21
92	Hydrogen storage in 2NaBH4+MgH2 mixtures: Destabilization by additives and nanoconfinement. Journal of Alloys and Compounds, 2012, 536, S236-S240.	2.8	21
93	Reversible, Electric-Field Induced Magneto-Ionic Control of Magnetism in Mesoporous Cobalt Ferrite Thin Films. Scientific Reports, 2019, 9, 10804.	1.6	21
94	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
95	Modeling the collective magnetic behavior of highly-packed arrays of multi-segmented nanowires. New Journal of Physics, 2016, 18, 013026.	1.2	20
96	Structural and magnetic characterization of batch-fabricated nickel encapsulated multi-walled carbon nanotubes. Nanotechnology, 2011, 22, 275713.	1.3	19
97	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
98	In vitro biocompatibility assessment of Ti40Cu38Zr10Pd12 bulk metallic glass. Journal of Materials Science: Materials in Medicine, 2014, 25, 163-172.	1.7	19
99	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
100	Templateâ€Assisted Electroforming of Fully Semiâ€Hardâ€Magnetic Helical Microactuators. Advanced Engineering Materials, 2018, 20, 1800179.	1.6	19
101	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
102	Gadolinium doped Ceria nanocrystals synthesized from mesoporous silica. Journal of Nanoparticle Research, 2008, 10, 369-375.	0.8	18
103	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
104	Mesoporous Oxide-Diluted Magnetic Semiconductors Prepared by Co Implantation in Nanocast 3D-Ordered In₂O_{3â€“<i>y</i>} Materials. Journal of Physical Chemistry C, 2013, 117, 17084-17091.	1.5	18
105	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
106	The Influence of Pore Size on the Indentation Behavior of Metallic Nanoporous Materials: A Molecular Dynamics Study. Materials, 2016, 9, 355.	1.3	18
107	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
108	Micelle-assisted electrodeposition of highly mesoporous Feâ€“Pt nodular films with soft magnetic and electrocatalytic properties. Nanoscale, 2017, 9, 18081-18093.	2.8	17

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109	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
110	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
111	Nanocasting synthesis of mesoporous SnO₂ with a tunable ferromagnetic response through Ni loading. RSC Advances, 2016, 6, 104799-104807.	1.7	16
112	Electrochemically synthesized amorphous and crystalline nanowires: dissimilar nanomechanical behavior in comparison with homologous flat films. Nanoscale, 2016, 8, 1344-1351.	2.8	16
113	Nanoindenting the Chelyabinsk Meteorite to Learn about Impact Deflection Effects in asteroids. Astrophysical Journal, 2017, 835, 157.	1.6	16
114	Self-templating faceted and spongy single-crystal ZnO nanorods: Resistive switching and enhanced piezoresponse. Materials and Design, 2017, 133, 54-61.	3.3	16
115	Tunable Magnetism in Nanoporous CuNi Alloys by Reversible Voltageâ€Driven Elementâ€Selective Redox Processes. Small, 2018, 14, e1704396.	5.2	16
116	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
117	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
118	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
119	Parametric aqueous electrodeposition study and characterization of Feâ€“Cu films. Electrochimica Acta, 2017, 231, 739-748.	2.6	15
120	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
121	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
122	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
123	Extracting deposition parameters for cobaltâ€“molybdenum alloy from potentiostatic current transients. Physical Chemistry Chemical Physics, 2004, 6, 1340-1344.	1.3	13
124	Electrodeposition of cobalt based alloys for MEMS applications. Transactions of the Institute of Metal Finishing, 2005, 83, 248-254.	0.6	13
125	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
126	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

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127	Inducing surface nanoporosity on Fe-based metallic glass matrix composites by selective dealloying. Materials Characterization, 2019, 153, 46-51.	1.9	13
128	Electrochemical characterisation of multifunctional electrocatalytic mesoporous Ni-Pt thin films in alkaline and acidic media. Electrochimica Acta, 2020, 359, 136952.	2.6	13
129	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
130	Nanoporous Fe-Based Alloy Prepared by Selective Dissolution: An Effective Fenton Catalyst for Water Remediation. ACS Omega, 2017, 2, 653-662.	1.6	12
131	Ferromagnetic-like behaviour in bismuth ferrite films prepared by electrodeposition and subsequent heat treatment. RSC Advances, 2017, 7, 32133-32138.	1.7	12
132	Unraveling the Origin of Magnetism in Mesoporous Cu-Doped SnO2 Magnetic Semiconductors. Nanomaterials, 2017, 7, 348.	1.9	12
133	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
134	Strain gradient mediated magnetoelectricity in Fe-Ga/P(VDF-TrFE) multiferroic bilayers integrated on silicon. Applied Materials Today, 2020, 19, 100579.	2.3	12
135	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
136	One-pot electrosynthesis of multi-layered magnetic metallopolymer nanocomposites. Nanoscale, 2014, 6, 4683.	2.8	11
137	Nanomechanical behaviour of open-cell nanoporous metals: Homogeneous versus thickness-dependent porosity. Mechanics of Materials, 2016, 100, 167-174.	1.7	11
138	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
139	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
140	Assessment of catalyst particle removal in multi-wall carbon nanotubes by highly sensitive magnetic measurements. Carbon, 2009, 47, 758-763.	5.4	10
141	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
142	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
143	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
144	Full Optimization of an Electroless Nickel Solution: Boosting the Performance of Low-Phosphorous Coatings. Materials, 2021, 14, 1501.	1.3	10

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145	High-performance electrodeposited Co-rich CoNiReP permanent magnets. Electrochimica Acta, 2011, 56, 8979-8988.	2.6	9
146	Influence of the preparation method on the morphology of templated NiCo2O4 spinel. Journal of Nanoparticle Research, 2011, 13, 3671-3681.	0.8	9
147	Self-organized spatio-temporal micropatterning in ferromagnetic Coâ€“In films. Journal of Materials Chemistry C, 2014, 2, 8259-8269.	2.7	9
148	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
149	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
150	Electrochemical Synthesis of Bismuth Particles: Tuning Particle Shape through Substrate Type within a Narrow Potential Window. Materials, 2017, 10, 43.	1.3	9
151	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
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