

Jordi Sort

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154
papers

3,787
citations

32
h-index

54
g-index

167
ext. papers

4,351
ext. citations

7.5
avg, IF

5.28
L-index

#	Paper	IF	Citations
154	Synthesis and size-dependent exchange bias in inverted core-shell MnO Mn ₃ O ₄ nanoparticles. <i>Journal of the American Chemical Society</i> , 2007 , 129, 9102-8	16.4	248
153	Origin of the asymmetric magnetization reversal behavior in exchange-biased systems: competing anisotropies. <i>Physical Review Letters</i> , 2005 , 95, 057204	7.4	234
152	Multiwavelength Light-Responsive Au/B-TiO ₂ Janus Micromotors. <i>ACS Nano</i> , 2017 , 11, 6146-6154	16.7	130
151	Piezoelectrically Enhanced Photocatalysis with BiFeO ₃ Nanostructures for Efficient Water Remediation. <i>iScience</i> , 2018 , 4, 236-246	6.1	124
150	Optimized Synthesis of the Elusive β -Fe ₂ O ₃ Phase via Sol-Gel Chemistry. <i>Chemistry of Materials</i> , 2004 , 16, 5542-5548	9.6	117
149	Size-dependent passivation shell and magnetic properties in antiferromagnetic/ferrimagnetic core/shell MnO nanoparticles. <i>Journal of the American Chemical Society</i> , 2010 , 132, 9398-407	16.4	100
148	Shape-switching microrobots for medical applications: the influence of shape in drug delivery and locomotion. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6803-11	9.5	97
147	Hybrid helical magnetic microrobots obtained by 3D template-assisted electrodeposition. <i>Small</i> , 2014 , 10, 1284-8	11	93
146	Magnetically driven Bi ₂ O ₃ /BiOCl-based hybrid microrobots for photocatalytic water remediation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23670-23676	13	82
145	Ni-, Pt- and (Ni/Pt)-doped TiO ₂ nanophotocatalysts: A smart approach for sustainable degradation of Rhodamine B dye. <i>Applied Catalysis B: Environmental</i> , 2016 , 181, 270-278	21.8	74
144	A transparent hybrid of nanocrystalline cellulose and amorphous calcium carbonate nanoparticles. <i>Nanoscale</i> , 2011 , 3, 3563-6	7.7	74
143	Nanocrystalline Electroplated Cu ₂ Ni: Metallic Thin Films with Enhanced Mechanical Properties and Tunable Magnetic Behavior. <i>Advanced Functional Materials</i> , 2010 , 20, 983-991	15.6	73
142	Hard and transparent films formed by nanocellulose-TiO ₂ nanoparticle hybrids. <i>PLoS ONE</i> , 2012 , 7, e45839	3.9	70
141	Nanostructured β -phase Ti _{0.1} Fe _{0.05} Sn and sub- β structured Ti _{0.9} Nb _{0.3} Zr _{0.7} Ta alloys for biomedical applications: Microstructure benefits on the mechanical and corrosion performances. <i>Materials Science and Engineering C</i> , 2012 , 32, 2418-2425	8.3	66
140	Direct magnetic patterning due to the generation of ferromagnetism by selective ion irradiation of paramagnetic FeAl alloys. <i>Small</i> , 2009 , 5, 229-34	11	63
139	Reusable and Long-Lasting Active Microcleaners for Heterogeneous Water Remediation. <i>Advanced Functional Materials</i> , 2016 , 26, 4152-4161	15.6	59
138	High Temperature Magnetic Stabilization of Cobalt Nanoparticles by an Antiferromagnetic Proximity Effect. <i>Physical Review Letters</i> , 2015 , 115, 057201	7.4	55

137	Imaging Technologies for Biomedical Micro- and Nanoswimmers. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800575	6.8	53
136	Grain boundary segregation and interdiffusion effects in nickel-copper alloys: an effective means to improve the thermal stability of nanocrystalline nickel. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 2265-74	9.5	52
135	Two-, three-, and four-component magnetic multilayer onion nanoparticles based on iron oxides and manganese oxides. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16738-41	16.4	50
134	Electrolyte-gated magnetoelectric actuation: Phenomenology, materials, mechanisms, and prospective applications. <i>APL Materials</i> , 2019 , 7, 030701	5.7	49
133	Voltage-Controlled ON-OFF Ferromagnetism at Room Temperature in a Single Metal Oxide Film. <i>ACS Nano</i> , 2018 , 12, 10291-10300	16.7	47
132	Multisegmented FeCo/Cu nanowires: electrosynthesis, characterization, and magnetic control of biomolecule desorption. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 7389-96	9.5	46
131	Facile in situ synthesis of BiOCl nanoplates stacked to highly porous TiO ₂ synergistic combination for environmental remediation. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 13994-4000	9.5	43
130	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. <i>Electrochimica Acta</i> , 2017 , 244, 199-208	6.7	42
129	Reversible post-synthesis tuning of the superparamagnetic blocking temperature of Fe ₃ O ₄ nanoparticles by adsorption and desorption of Co(II) ions. <i>Journal of Materials Chemistry</i> , 2007 , 17, 322-328		42
128	Improvement to the Corrosion Resistance of Ti-Based Implants Using Hydrothermally Synthesized Nanostructured Anatase Coatings. <i>Materials</i> , 2014 , 7, 180-194	3.5	39
127	Helical and tubular lipid microstructures that are electroless-coated with CoNiReP for wireless magnetic manipulation. <i>Small</i> , 2012 , 8, 1498-502	11	39
126	Graphite Coating of Iron Nanowires for Nanorobotic Applications: Synthesis, Characterization and Magnetic Wireless Manipulation. <i>Advanced Functional Materials</i> , 2013 , 23, 823-831	15.6	38
125	Enhanced Coercivity in Co-Rich Near-Stoichiometric Co _x Fe _{3-x} O ₄ Nanoparticles Prepared in Large Batches. <i>Chemistry of Materials</i> , 2007 , 19, 4957-4963	9.6	38
124	Resolving material-specific structures within Fe ₃ O ₄ /MnO ₂ core/shell nanoparticles using anomalous small-angle X-ray scattering. <i>ACS Nano</i> , 2013 , 7, 921-31	16.7	35
123	Nanocasting of Mesoporous In-TM (TM = Co, Fe, Mn) Oxides: Towards 3D Diluted-Oxide Magnetic Semiconductor Architectures. <i>Advanced Functional Materials</i> , 2013 , 23, 900-911	15.6	35
122	Fabrication of segmented Au/Co/Au nanowires: insights in the quality of Co/Au junctions. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 14583-9	9.5	32
121	EEL spectroscopic tomography: towards a new dimension in nanomaterials analysis. <i>Ultramicroscopy</i> , 2012 , 122, 12-8	3.1	32
120	Biodegradable Metal-Organic Framework-Based Microrobots (MOFBOTs). <i>Advanced Healthcare Materials</i> , 2020 , 9, e2001031	10.1	32

119	Voltage-Induced Coercivity Reduction in Nanoporous Alloy Films: A Boost toward Energy-Efficient Magnetic Actuation. <i>Advanced Functional Materials</i> , 2017 , 27, 1701904	15.6	31
118	3D hierarchically porous Cu-BiOCl nanocomposite films: one-step electrochemical synthesis, structural characterization and nanomechanical and photoluminescent properties. <i>Nanoscale</i> , 2013 , 5, 12542-50	7.7	31
117	Ferroelectrics as Smart Mechanical Materials. <i>Advanced Materials</i> , 2017 , 29, 1702210	24	29
116	Ultraporous single phase iron oxide-silica nanostructured aerogels from ferrous precursors. <i>Langmuir</i> , 2004 , 20, 1425-9	4	28
115	Mapping of magnetic and mechanical properties of Fe-W alloys electrodeposited from Fe(III)-based glycolate-citrate bath. <i>Materials and Design</i> , 2018 , 139, 429-438	8.1	28
114	Cold Consolidation of Metal/Ceramic Nanocomposite Powders with Large Ceramic Fractions. <i>Advanced Functional Materials</i> , 2008 , 18, 3293-3298	15.6	27
113	Voltage-driven motion of nitrogen ions: a new paradigm for magneto-ionics. <i>Nature Communications</i> , 2020 , 11, 5871	17.4	26
112	Novel Fe-Mn-Si-Pd alloys: insights into mechanical, magnetic, corrosion resistance and biocompatibility performances. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 6402-6412	7.3	26
111	Electric-Field-Adjustable Time-Dependent Magnetolectric Response in Martensitic FeRh Alloy. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 15577-15582	9.5	25
110	Carborane Bis-pyridylalcohols as Linkers for Coordination Polymers: Synthesis, Crystal Structures, and Guest-Framework Dependent Mechanical Properties. <i>Crystal Growth and Design</i> , 2017 , 17, 846-857	3.5	25
109	Highly efficient electrochemical and chemical hydrogenation of 4-nitrophenol using recyclable narrow mesoporous magnetic CoPt nanowires. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15676-15687	13	25
108	Large Magnetolectric Effects in Electrodeposited Nanoporous Microdisks Driven by Effective Surface Charging and Magneto-Ionics. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44897-44905	9.5	24
107	Simultaneous Local Heating/Thermometry Based on Plasmonic Magneto-chromic Nanoheaters. <i>Small</i> , 2018 , 14, e1800868	11	24
106	A CaCO ₃ /nanocellulose-based bioinspired nacre-like material. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16128-16133	13	23
105	Novel Ti-Zr-Hf-Fe Nanostructured Alloy for Biomedical Applications. <i>Materials</i> , 2013 , 6, 4930-4945	3.5	23
104	Tunable High-Field Magnetization in Strongly Exchange-Coupled Freestanding Co/CoO Core/Shell Coaxial Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22477-83	9.5	22
103	Protective coatings for intraocular wirelessly controlled microrobots for implantation: Corrosion, cell culture, and in vivo animal tests. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 836-845	3.5	21
102	Electric Field Control of Magnetism in Iron Oxide Nanoporous Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 37338-37346	9.5	21

101	Electrodeposition of amorphous Fe-Cr-Ni stainless steel alloy with high corrosion resistance, low cytotoxicity and soft magnetic properties. <i>Surface and Coatings Technology</i> , 2018 , 349, 745-751	4.4	21
100	Reversible and magnetically unassisted voltage-driven switching of magnetization in FeRh/PMN-PT. <i>Applied Physics Letters</i> , 2018 , 113, 152901	3.4	20
99	Magnetically-actuated mesoporous nanowires for enhanced heterogeneous catalysis. <i>Applied Catalysis B: Environmental</i> , 2017 , 217, 81-91	21.8	19
98	Flexoelectric Fracture-Ratchet Effect in Ferroelectrics. <i>Physical Review Letters</i> , 2019 , 122, 135502	7.4	18
97	Designing new biocompatible glass-forming Ti75-x Zr10 Nbx Si15 (x = 0, 15) alloys: corrosion, passivity, and apatite formation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016 , 104, 27-38	3.5	18
96	Mineralization-Inspired Synthesis of Magnetic Zeolitic Imidazole Framework Composites. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 13550-13555	16.4	18
95	Tailoring Staircase-like Hysteresis Loops in Electrodeposited Trisegmented Magnetic Nanowires: a Strategy toward Minimization of Interwire Interactions. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4109-17	9.5	17
94	A new reversal mode in exchange coupled antiferromagnetic/ferromagnetic disks: distorted viscous vortex. <i>Nanoscale</i> , 2015 , 7, 9878-85	7.7	16
93	The Influence of Deformation-Induced Martensitic Transformations on the Mechanical Properties of Nanocomposite Cu-Zr-(Al) Systems. <i>Advanced Engineering Materials</i> , 2011 , 13, 57-63	3.5	16
92	Out-of-plane magnetic patterning based on indentation-induced nanocrystallization of a metallic glass. <i>Small</i> , 2010 , 6, 1543-9	11	16
91	The Influence of Pore Size on the Indentation Behavior of Metallic Nanoporous Materials: A Molecular Dynamics Study. <i>Materials</i> , 2016 , 9,	3.5	16
90	Evaporation-induced self-assembly synthesis of Ni-doped mesoporous SnO2 thin films with tunable room temperature magnetic properties. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 5517-5527	7.1	15
89	Magnetically amplified photothermal therapies and multimodal imaging with magneto-plasmonic nanodomains. <i>Applied Materials Today</i> , 2018 , 12, 430-440	6.6	15
88	Micelle-assisted electrodeposition of highly mesoporous Fe-Pt nodular films with soft magnetic and electrocatalytic properties. <i>Nanoscale</i> , 2017 , 9, 18081-18093	7.7	15
87	Micelle-Assisted Electrodeposition of Mesoporous Fe-Pt Smooth Thin Films and their Electrocatalytic Activity towards the Hydrogen Evolution Reaction. <i>ChemSusChem</i> , 2018 , 11, 367-375	8.3	15
86	Tunable Magnetism in Nanoporous CuNi Alloys by Reversible Voltage-Driven Element-Selective Redox Processes. <i>Small</i> , 2018 , 14, e1704396	11	14
85	Nanocasting synthesis of mesoporous SnO2 with a tunable ferromagnetic response through Ni loading. <i>RSC Advances</i> , 2016 , 6, 104799-104807	3.7	14
84	Reversible, Electric-Field Induced Magneto-Ionic Control of Magnetism in Mesoporous Cobalt Ferrite Thin Films. <i>Scientific Reports</i> , 2019 , 9, 10804	4.9	14

83	Mesoporous Oxide-Diluted Magnetic Semiconductors Prepared by Co Implantation in Nanocast 3D-Ordered In ₂ O ₃ Materials. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 17084-17091	3.8	14
82	Parametric aqueous electrodeposition study and characterization of FeCu films. <i>Electrochimica Acta</i> , 2017 , 231, 739-748	6.7	13
81	Boosting Room-Temperature Magneto-Ionics in a Non-Magnetic Oxide Semiconductor. <i>Advanced Functional Materials</i> , 2020 , 30, 2003704	15.6	13
80	Coercivity Modulation in Fe-Cu Pseudo-Ordered Porous Thin Films Controlled by an Applied Voltage: A Sustainable, Energy-Efficient Approach to Magnetoelectrically Driven Materials. <i>Advanced Science</i> , 2018 , 5, 1800499	13.6	13
79	Self-templating faceted and spongy single-crystal ZnO nanorods: Resistive switching and enhanced piezoresponse. <i>Materials and Design</i> , 2017 , 133, 54-61	8.1	13
78	Electrodeposition of sizeable and compositionally tunable rhodium-iron nanoparticles and their activity toward hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2016 , 194, 263-275	6.7	13
77	Influence of the irradiation temperature on the surface structure and physical/chemical properties of Ar ion-irradiated bulk metallic glasses. <i>Journal of Alloys and Compounds</i> , 2014 , 610, 118-125	5.7	12
76	Controlled 3D-coating of the pores of highly ordered mesoporous antiferromagnetic Co ₃ O ₄ replicas with ferrimagnetic Fe(x)Co(3-x)O ₄ nanolayers. <i>Nanoscale</i> , 2013 , 5, 5561-7	7.7	12
75	Exchange-Biased Magnetic Vortices. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 1968-1973	2	12
74	Programmable Locomotion Mechanisms of Nanowires with Semihard Magnetic Properties Near a Surface Boundary. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3214-3223	9.5	12
73	Template-Assisted Electroforming of Fully Semi-Hard-Magnetic Helical Microactuators. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800179	3.5	12
72	GreenCr(iii)-glycine electrolyte for the production of FeCrNi coatings: electrodeposition mechanisms and role of by-products in terms of coating composition and microstructure.. <i>RSC Advances</i> , 2019 , 9, 25762-25775	3.7	11
71	Ordered arrays of ferromagnetic, compositionally graded Cu _{1-x} Ni _x alloy nanopillars prepared by template-assisted electrodeposition. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 7215	7.1	11
70	Drastic influence of minor Fe or Co additions on the glass forming ability, martensitic transformations and mechanical properties of shape memory Zr-Cu-Al bulk metallic glass composites. <i>Science and Technology of Advanced Materials</i> , 2014 , 15, 035015	7.1	11
69	Work-hardening mechanisms of the Ti ₆₀ Cu ₁₄ Ni ₁₂ Sn ₄ Nb ₁₀ nanocomposite alloy. <i>Journal of Materials Research</i> , 2009 , 24, 3146-3153	2.5	11
68	Magnetometry of Individual Polycrystalline Ferromagnetic Nanowires. <i>Small</i> , 2016 , 12, 6363-6369	11	11
67	Ferromagnetic-like behaviour in bismuth ferrite films prepared by electrodeposition and subsequent heat treatment. <i>RSC Advances</i> , 2017 , 7, 32133-32138	3.7	10
66	Mechanical properties of particles from the surface of asteroid 25143 Itokawa. <i>Astronomy and Astrophysics</i> , 2019 , 629, A119	5.1	10

65	Nanoporous Fe-Based Alloy Prepared by Selective Dissolution: An Effective Fenton Catalyst for Water Remediation. <i>ACS Omega</i> , 2017 , 2, 653-662	3.9	9
64	Synthesis of Fe ₃ O ₄ and Fe-Mn Oxide Foams with Highly Tunable Magnetic Properties by the Replication Method from Polyurethane Templates. <i>Materials</i> , 2018 , 11,	3.5	9
63	A facile co-precipitation synthesis of heterostructured ZrO ₂ ZnO nanoparticles as efficient photocatalysts for wastewater treatment. <i>Journal of Materials Science</i> , 2017 , 52, 13779-13789	4.3	9
62	Unraveling the Origin of Magnetism in Mesoporous Cu-Doped SnO ₂ Magnetic Semiconductors. <i>Nanomaterials</i> , 2017 , 7,	5.4	9
61	Effect of Surface Modifications of Ti ₄₀ Zr ₁₀ Cu ₃₈ Pd ₁₂ Bulk Metallic Glass and Ti-6Al-4V Alloy on Human Osteoblasts In Vitro Biocompatibility. <i>PLoS ONE</i> , 2016 , 11, e0156644	3.7	9
60	Nanoindenting the Chelyabinsk Meteorite to Learn about Impact Deflection Effects in asteroids. <i>Astrophysical Journal</i> , 2017 , 835, 157	4.7	8
59	Inducing surface nanoporosity on Fe-based metallic glass matrix composites by selective dealloying. <i>Materials Characterization</i> , 2019 , 153, 46-51	3.9	8
58	Enhancing Magneto-Ionic Effects in Magnetic Nanostructured Films via Conformal Deposition of Nanolayers with Oxygen Acceptor/Donor Capabilities. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 14484-14494	9.5	8
57	Electrodeposited Ni-Based Magnetic Mesoporous Films as Smart Surfaces for Atomic Layer Deposition: An "All-Chemical" Deposition Approach toward 3D Nanoengineered Composite Layers. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 14877-14885	9.5	8
56	Spontaneous formation of spiral-like patterns with distinct periodic physical properties by confined electrodeposition of Co-In disks. <i>Scientific Reports</i> , 2016 , 6, 30398	4.9	8
55	Large magnetoelectric effects mediated by electric-field-driven nanoscale phase transformations in sputtered (nanoparticulate) and electrochemically dealloyed (nanoporous) Fe-Cu films. <i>Nanoscale</i> , 2018 , 10, 14570-14578	7.7	8
54	Self-organized spatio-temporal micropatterning in ferromagnetic Co ₉₀ films. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8259-8269	7.1	8
53	. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-57	2	8
52	Mobility-Enhancing Coatings for Vitreoretinal Surgical Devices: Hydrophilic and Enzymatic Coatings Investigated by Microrheology. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 22018-28	9.5	7
51	Magneto-ionic control of magnetism in two-oxide nanocomposite thin films comprising mesoporous cobalt ferrite conformally nanocoated with HfO ₂ . <i>Nanoscale</i> , 2020 , 12, 5987-5994	7.7	7
50	Fabrication of sustainable hydrophobic and oleophilic pseudo-ordered macroporous Fe ₃ O ₄ films with tunable composition and pore size via electrodeposition through colloidal templates. <i>Applied Materials Today</i> , 2018 , 12, 1-8	6.6	7
49	Cytocompatibility assessment of Ti-Zr-Pd-Si-(Nb) alloys with low Young's modulus, increased hardness, and enhanced osteoblast differentiation for biomedical applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018 , 106, 834-842	3.5	7
48	Nickel Nanoparticles Stabilized by Trisimidazolium Salts: Synthesis, Characterization and Application as Recyclable Catalysts for the Reduction of Nitroarenes. <i>ChemistrySelect</i> , 2018 , 3, 8597-8603	1.8	7

47	Magneto-Ionics in Single-Layer Transition Metal Nitrides. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30826-30834	9.5	7
46	The electrochemical manipulation of apolar solvent drops in aqueous electrolytes by altering the surface polarity of polypyrrole architectures. <i>Electrochemistry Communications</i> , 2015 , 54, 32-35	5.1	6
45	Strain gradient mediated magnetoelectricity in Fe-Ga/P(VDF-TrFE) multiferroic bilayers integrated on silicon. <i>Applied Materials Today</i> , 2020 , 19, 100579	6.6	6
44	Electrochemical Synthesis of Bismuth Particles: Tuning Particle Shape through Substrate Type within a Narrow Potential Window. <i>Materials</i> , 2017 , 10,	3.5	6
43	A comparative study of the influence of the deposition technique (electrodeposition versus sputtering) on the properties of nanostructured FePd films. <i>Science and Technology of Advanced Materials</i> , 2020 , 21, 424-434	7.1	6
42	Voltage-Induced ON Switching of Magnetism in Ordered Arrays of Non-Ferrimagnetic Nanoporous Iron Oxide Microdisks. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2001143	4.6	6
41	Functional macroporous iron-phosphorous films by electrodeposition on colloidal crystal templates. <i>Electrochimica Acta</i> , 2019 , 313, 211-222	6.7	5
40	Local manipulation of metamagnetism by strain nanopatterning. <i>Materials Horizons</i> , 2020 , 7, 2056-2062	14.4	5
39	Tailoring magnetic and mechanical properties of mesoporous single-phase Ni-Pt films by electrodeposition. <i>Nanoscale</i> , 2020 , 12, 7749-7758	7.7	5
38	Structural and Magnetic Properties of FeCu _{1-x} Sputtered Thin Films Electrochemically Treated To Create Nanoporosity for High-Surface-Area Magnetic Components. <i>ACS Applied Nano Materials</i> , 2018 , 1, 1675-1682	5.6	5
37	Syntheses, supramolecular architectures and photoluminescence properties of Zn(II) complexes based on 3,5-dihydroxybenzoic and pyridine/pyrazole derived ligands. <i>Inorganic Chemistry Communication</i> , 2018 , 96, 34-38	3.1	5
36	Dynamic electric-field-induced magnetic effects in cobalt oxide thin films: towards magneto-ionic synapses.. <i>Nanoscale</i> , 2022 ,	7.7	5
35	Electrodeposition of Iron-Group Alloys into Nanostructured Oxide Membranes: Synthetic Challenges and Properties. <i>Current Nanoscience</i> , 2018 , 15, 84-99	1.4	5
34	Toward Robust Segmented Nanowires: Understanding the Impact of Crystallographic Texture on the Quality of Segment Interfaces in Magnetic Metallic Nanowires. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600336	4.6	5
33	Strain-gradient effects in nanoscale-engineered magnetoelectric materials. <i>APL Materials</i> , 2021 , 9, 020903	9.3	5
32	Nanomechanics on FGF-2 and Heparin Reveal Slip Bond Characteristics with pH Dependency. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 1000-1007	5.5	4
31	Electrodeposition of Nanocrystalline Fe-P Coatings: Influence of Bath Temperature and Glycine Concentration on Structure, Mechanical and Corrosion Behavior. <i>Coatings</i> , 2019 , 9, 189	2.9	4
30	New binuclear copper(II) coordination polymer based on mixed pyrazolic and oxalate ligands: structural characterization and mechanical properties. <i>RSC Advances</i> , 2015 , 5, 32369-32375	3.7	4

29	Highly ordered mesoporous magnesium niobate high- ϵ dielectric ceramic: synthesis, structural/mechanical characterization and thermal stability. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 4948	7.1	4
28	Cobalt-Biickel microcantilevers for biosensing. <i>Journal of Intelligent Material Systems and Structures</i> , 2013 , 24, 2215-2220	2.3	4
27	Critical Role of Electrical Resistivity in Magnetoionics. <i>Physical Review Applied</i> , 2021 , 16,	4.3	4
26	The biocompatibility and anti-biofouling properties of magnetic core-multishell Fe@C NWs-AAO nanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 13274-9	3.6	3
25	Sub-micron magnetic patterns and local variations of adhesion force induced in non-ferromagnetic amorphous steel by femtosecond pulsed laser irradiation. <i>Applied Surface Science</i> , 2016 , 371, 399-406	6.7	3
24	Inkjet-Printed Chemical Solution Y ₂ O ₃ Layers for Planarization of Technical Substrates. <i>Coatings</i> , 2017 , 7, 227	2.9	3
23	Fabrication of hybrid nanocrystalline Al-Ti alloys by mechanical bonding through high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 833, 142549	5.3	3
22	Chelyabinsk Meteorite as a Proxy for Studying the Properties of Potentially Hazardous Asteroids and Impact Deflection Strategies. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2017 , 219-241	0.3	3
21	Room-temperature synthesis of three-dimensional porous ZnO@CuNi hybrid magnetic layers with photoluminescent and photocatalytic properties. <i>Science and Technology of Advanced Materials</i> , 2016 , 17, 177-187	7.1	3
20	Dually actuated atomic force microscope with miniaturized magnetic bead-actuators for single-molecule force measurements. <i>Nanoscale Horizons</i> , 2016 , 1, 488-495	10.8	3
19	Cross-sectioning spatio-temporal Co-In electrodeposits: Disclosing a magnetically-patterned nanolaminated structure. <i>Materials and Design</i> , 2017 , 114, 202-207	8.1	2
18	Nanocrystalline Electrodeposited Fe-W/AlO Composites: Effect of Alumina Sub-microparticles on the Mechanical, Tribological, and Corrosion Properties. <i>Frontiers in Chemistry</i> , 2019 , 7, 241	5	2
17	Unraveling the properties of sharply defined submicron scale FeCu and FePd magnetic structures fabricated by electrodeposition onto electron-beam-lithographed substrates. <i>Materials and Design</i> , 2020 , 193, 108826	8.1	2
16	Effect of heat treatments on the mechanical and tribological properties of electrodeposited FeW/Al ₂ O ₃ composites. <i>Wear</i> , 2020 , 448-449, 203232	3.5	2
15	Exploiting electrolyte confinement effects for the electrosynthesis of two-engine micromachines. <i>Applied Materials Today</i> , 2020 , 19, 100629	6.6	2
14	Composite films combining electrospun fiber network and epitaxial oxide by chemical solution deposition. <i>Journal of Sol-Gel Science and Technology</i> , 2016 , 80, 277-284	2.3	2
13	Single step electrosynthesis of NiMnGa alloys. <i>Electrochimica Acta</i> , 2016 , 204, 199-205	6.7	2
12	Disentangling Highly Asymmetric Magnetolectric Effects in Engineered Multiferroic Heterostructures. <i>Physical Review Applied</i> , 2019 , 12,	4.3	2

11	Biodegradable FeMnSi Sputter-Coated Macroporous Polypropylene Membranes for the Sustained Release of Drugs. <i>Nanomaterials</i> , 2017 , 7,	5.4	2
10	Lithography: Hybrid Helical Magnetic Microrobots Obtained by 3D Template-Assisted Electrodeposition (Small 7/2014). <i>Small</i> , 2014 , 10, 1234-1234	11	2
9	ZnO Nanosheet-Coated TiZrPdSiNb Alloy as a Piezoelectric Hybrid Material for Self-Stimulating Orthopedic Implants. <i>Biomedicines</i> , 2021 , 9,	4.8	2
8	Mechanical, magnetic and magnetostrictive properties of porous Fe-Ga films prepared by electrodeposition. <i>Materials and Design</i> , 2021 , 208, 109915	8.1	2
7	Epitaxial Versus Polycrystalline Shape Memory Cu-Al-Ni Thin Films. <i>Coatings</i> , 2019 , 9, 308	2.9	1
6	Selective Metallization of Non-Conductive Materials by Patterning of Catalytic Particles and the Application of a Gradient Magnetic Field. <i>ECS Transactions</i> , 2018 , 85, 69-78	1	1
5	Design of New N-polyether Pyrazole Derived Ligands: Synthesis, Characterization and Regioselectivity. <i>Current Organic Synthesis</i> , 2014 , 11, 149-155	1.9	1
4	Structure, mechanical properties and nanocrystallization of (FeCoCrNi)-(B,Si) high-entropy metallic glasses. <i>Intermetallics</i> , 2022 , 141, 107432	3.5	1
3	Electroless copper plating obtained by Selective Metallisation using a Magnetic Field (SMMF). <i>Electrochimica Acta</i> , 2021 , 389, 138763	6.7	1
2	Oxygen reduction reaction and PEM fuel cell performance of pulse electrodeposited PtNi and PtNiMo(O) nanoparticles. <i>Materials Today Energy</i> , 2022 , 101023	7	0
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