

# Jordi Sort

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Structure, mechanical properties and nanocrystallization of (FeCoCrNi)-(B,Si) high-entropy metallic glasses. <i>Intermetallics</i> , <b>2022</b> , 141, 107432	3.5	1
153	Dynamic electric-field-induced magnetic effects in cobalt oxide thin films: towards magneto-ionic synapses.. <i>Nanoscale</i> , <b>2022</b> ,	7.7	5
152	Fabrication of hybrid nanocrystalline AlTi alloys by mechanical bonding through high-pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 833, 142549	5.3	3
151	Oxygen reduction reaction and PEM fuel cell performance of pulse electrodeposited PtNi and PtNiMo(O) nanoparticles. <i>Materials Today Energy</i> , <b>2022</b> , 101023	7	0
150	ZnO Nanosheet-Coated TiZrPdSiNb Alloy as a Piezoelectric Hybrid Material for Self-Stimulating Orthopedic Implants. <i>Biomedicines</i> , <b>2021</b> , 9,	4.8	2
149	Magneto-Ionics in Single-Layer Transition Metal Nitrides. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 30826-30834	9.5	7
148	Voltage-Induced ON Switching of Magnetism in Ordered Arrays of Non-Ferrimagnetic Nanoporous Iron Oxide Microdisks. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2001143	4.6	6
147	Nanoporous Composites With Converse Magnetoelectric Effects for Energy-Efficient Applications <b>2021</b> , 450-460		
146	Strain-gradient effects in nanoscale-engineered magnetoelectric materials. <i>APL Materials</i> , <b>2021</b> , 9, 0209037	9.7	5
145	. <i>IEEE Transactions on Magnetics</i> , <b>2021</b> , 57, 1-57	2	8
144	Critical Role of Electrical Resistivity in Magnetoionics. <i>Physical Review Applied</i> , <b>2021</b> , 16,	4.3	4
143	Electroless copper plating obtained by Selective Metallisation using a Magnetic Field (SMMF). <i>Electrochimica Acta</i> , <b>2021</b> , 389, 138763	6.7	1
142	Mechanical, magnetic and magnetostrictive properties of porous Fe-Ga films prepared by electrodeposition. <i>Materials and Design</i> , <b>2021</b> , 208, 109915	8.1	2
141	Local manipulation of metamagnetism by strain nanopatterning. <i>Materials Horizons</i> , <b>2020</b> , 7, 2056-2062	14.4	5
140	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> , <b>2020</b> , 193, 108826	8.1	2
139	Tailoring magnetic and mechanical properties of mesoporous single-phase Ni-Pt films by electrodeposition. <i>Nanoscale</i> , <b>2020</b> , 12, 7749-7758	7.7	5
138	Enhancing Magneto-Ionic Effects in Magnetic Nanostructured Films via Conformal Deposition of Nanolayers with Oxygen Acceptor/Donor Capabilities. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 14484-14494	9.5	8

137	Boosting Room-Temperature Magneto-Ionics in a Non-Magnetic Oxide Semiconductor. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2003704	15.6	13
136	Magneto-ionic control of magnetism in two-oxide nanocomposite thin films comprising mesoporous cobalt ferrite conformally nanocoated with HfO. <i>Nanoscale</i> , <b>2020</b> , 12, 5987-5994	7.7	7
135	Strain gradient mediated magnetoelectricity in Fe-Ga/P(VDF-TrFE) multiferroic bilayers integrated on silicon. <i>Applied Materials Today</i> , <b>2020</b> , 19, 100579	6.6	6
134	Effect of heat treatments on the mechanical and tribological properties of electrodeposited FeW/Al <sub>2</sub> O <sub>3</sub> composites. <i>Wear</i> , <b>2020</b> , 448-449, 203232	3.5	2
133	Exploiting electrolyte confinement effects for the electrosynthesis of two-engine micromachines. <i>Applied Materials Today</i> , <b>2020</b> , 19, 100629	6.6	2
132	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> , <b>2020</b> , 21, 424-434	7.1	6
131	Voltage-driven motion of nitrogen ions: a new paradigm for magneto-ionics. <i>Nature Communications</i> , <b>2020</b> , 11, 5871	17.4	26
130	Biodegradable Metal-Organic Framework-Based Microrobots (MOFBOTs). <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e2001031	10.1	32
129	Electric Field Control of Magnetism in Iron Oxide Nanoporous Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 37338-37346	9.5	21
128	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> , <b>2019</b> , 9, 25762-25775	3.7	11
127	Inducing surface nanoporosity on Fe-based metallic glass matrix composites by selective dealloying. <i>Materials Characterization</i> , <b>2019</b> , 153, 46-51	3.9	8
126	Epitaxial Versus Polycrystalline Shape Memory Cu-Al-Ni Thin Films. <i>Coatings</i> , <b>2019</b> , 9, 308	2.9	1
125	Functional macroporous iron-phosphorous films by electrodeposition on colloidal crystal templates. <i>Electrochimica Acta</i> , <b>2019</b> , 313, 211-222	6.7	5
124	Nanocrystalline Electrodeposited Fe-W/AlO Composites: Effect of Alumina Sub-microparticles on the Mechanical, Tribological, and Corrosion Properties. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 241	5	2
123	Electrolyte-gated magnetoelectric actuation: Phenomenology, materials, mechanisms, and prospective applications. <i>APL Materials</i> , <b>2019</b> , 7, 030701	5.7	49
122	Flexoelectric Fracture-Ratchet Effect in Ferroelectrics. <i>Physical Review Letters</i> , <b>2019</b> , 122, 135502	7.4	18
121	Electrodeposition of Nanocrystalline Fe-P Coatings: Influence of Bath Temperature and Glycine Concentration on Structure, Mechanical and Corrosion Behavior. <i>Coatings</i> , <b>2019</b> , 9, 189	2.9	4
120	Mineralization-Inspired Synthesis of Magnetic Zeolitic Imidazole Framework Composites. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 13550-13555	16.4	18

119	Disentangling Highly Asymmetric Magnetoelectric Effects in Engineered Multiferroic Heterostructures. <i>Physical Review Applied</i> , <b>2019</b> , 12,	4.3	2
118	Reversible, Electric-Field Induced Magneto-Ionic Control of Magnetism in Mesoporous Cobalt Ferrite Thin Films. <i>Scientific Reports</i> , <b>2019</b> , 9, 10804	4.9	14
117	Mechanical properties of particles from the surface of asteroid 25143 Itokawa. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 629, A119	5.1	10
116	Imaging Technologies for Biomedical Micro- and Nanoswimmers. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800575	6.8	53
115	Programmable Locomotion Mechanisms of Nanowires with Semihard Magnetic Properties Near a Surface Boundary. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 3214-3223	9.5	12
114	Tunable Magnetism in Nanoporous CuNi Alloys by Reversible Voltage-Driven Element-Selective Redox Processes. <i>Small</i> , <b>2018</b> , 14, e1704396	11	14
113	Fabrication of sustainable hydrophobic and oleophilic pseudo-ordered macroporous FeCu films with tunable composition and pore size via electrodeposition through colloidal templates. <i>Applied Materials Today</i> , <b>2018</b> , 12, 1-8	6.6	7
112	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 &amp; Interfaces</i> , <b>2018</b> , 10, 14877-14885	9.5	8
111	Structural and Magnetic Properties of FeCu <sub>1-x</sub> Sputtered Thin Films Electrochemically Treated To Create Nanoporosity for High-Surface-Area Magnetic Components. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 1675-1682	5.6	5
110	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> , <b>2018</b> , 106, 834-842	3.5	7
109	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> , <b>2018</b> , 5, 1800499	13.6	13
108	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> , <b>2018</b> , 96, 34-38	3.1	5
107	Large magnetoelectric effects mediated by electric-field-driven nanoscale phase transformations in sputtered (nanoparticulate) and electrochemically dealloyed (nanoporous) Fe-Cu films. <i>Nanoscale</i> , <b>2018</b> , 10, 14570-14578	7.7	8
106	Synthesis of Fe <sub>3</sub> O <sub>4</sub> and Fe-Mn Oxide Foams with Highly Tunable Magnetic Properties by the Replication Method from Polyurethane Templates. <i>Materials</i> , <b>2018</b> , 11,	3.5	9
105	Selective Metallization of Non-Conductive Materials by Patterning of Catalytic Particles and the Application of a Gradient Magnetic Field. <i>ECS Transactions</i> , <b>2018</b> , 85, 69-78	1	1
104	Magnetically amplified photothermal therapies and multimodal imaging with magneto-plasmonic nanodomains. <i>Applied Materials Today</i> , <b>2018</b> , 12, 430-440	6.6	15
103	Nickel Nanoparticles Stabilized by Trisimidazolium Salts: Synthesis, Characterization and Application as Recyclable Catalysts for the Reduction of Nitroarenes. <i>ChemistrySelect</i> , <b>2018</b> , 3, 8597-8603	1.8	7
102	Piezoelectrically Enhanced Photocatalysis with BiFeO <sub>3</sub> Nanostructures for Efficient Water Remediation. <i>IScience</i> , <b>2018</b> , 4, 236-246	6.1	124

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> , <b>2018</b> , 349, 745-751	4.4	21
100	Electrodeposition of Iron-Group Alloys into Nanostructured Oxide Membranes: Synthetic Challenges and Properties. <i>Current Nanoscience</i> , <b>2018</b> , 15, 84-99	1.4	5
99	Mapping of magnetic and mechanical properties of Fe-W alloys electrodeposited from Fe(III)-based glycolate-citrate bath. <i>Materials and Design</i> , <b>2018</b> , 139, 429-438	8.1	28
98	Micelle-Assisted Electrodeposition of Mesoporous Fe-Pt Smooth Thin Films and their Electrocatalytic Activity towards the Hydrogen Evolution Reaction. <i>ChemSusChem</i> , <b>2018</b> , 11, 367-375	8.3	15
97	Large Magnetoelectric Effects in Electrodeposited Nanoporous Microdisks Driven by Effective Surface Charging and Magneto-Ionics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 44897-44905	9.5	24
96	Voltage-Controlled ON-OFF Ferromagnetism at Room Temperature in a Single Metal Oxide Film. <i>ACS Nano</i> , <b>2018</b> , 12, 10291-10300	16.7	47
95	Reversible and magnetically unassisted voltage-driven switching of magnetization in FeRh/PMN-PT. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 152901	3.4	20
94	Template-Assisted Electroforming of Fully Semi-Hard-Magnetic Helical Microactuators. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1800179	3.5	12
93	Simultaneous Local Heating/Thermometry Based on Plasmonic Magneto-chromic Nanoheaters. <i>Small</i> , <b>2018</b> , 14, e1800868	11	24
92	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> , <b>2017</b> , 105, 836-845	3.5	21
91	A CaCO <sub>3</sub> /nanocellulose-based bioinspired nacre-like material. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 16128-16133	13	23
90	Nanoindenting the Chelyabinsk Meteorite to Learn about Impact Deflection Effects in asteroids. <i>Astrophysical Journal</i> , <b>2017</b> , 835, 157	4.7	8
89	Parametric aqueous electrodeposition study and characterization of FeCu films. <i>Electrochimica Acta</i> , <b>2017</b> , 231, 739-748	6.7	13
88	Nanoporous Fe-Based Alloy Prepared by Selective Dissolution: An Effective Fenton Catalyst for Water Remediation. <i>ACS Omega</i> , <b>2017</b> , 2, 653-662	3.9	9
87	Nanomechanics on FGF-2 and Heparin Reveal Slip Bond Characteristics with pH Dependency. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 1000-1007	5.5	4
86	Electric-Field-Adjustable Time-Dependent Magnetoelectric Response in Martensitic FeRh Alloy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 15577-15582	9.5	25
85	Evaporation-induced self-assembly synthesis of Ni-doped mesoporous SnO <sub>2</sub> thin films with tunable room temperature magnetic properties. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 5517-5527	7.1	15
84	Cross-sectioning spatio-temporal Co-In electrodeposits: Disclosing a magnetically-patterned nanolaminated structure. <i>Materials and Design</i> , <b>2017</b> , 114, 202-207	8.1	2

83	Comparative electrochemical oxidation of methyl orange azo dye using Ti/Ir-Pb, Ti/Ir-Sn, Ti/Ru-Pb, Ti/Pt-Pd and Ti/RuO <sub>2</sub> anodes. <i>Electrochimica Acta</i> , <b>2017</b> , 244, 199-208	6.7	42
82	Multiwavelength Light-Responsive Au/B-TiO <sub>2</sub> Janus Micromotors. <i>ACS Nano</i> , <b>2017</b> , 11, 6146-6154	16.7	130
81	Magnetically-actuated mesoporous nanowires for enhanced heterogeneous catalysis. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 217, 81-91	21.8	19
80	Carborane Bis-pyridylalcohols as Linkers for Coordination Polymers: Synthesis, Crystal Structures, and Guest-Framework Dependent Mechanical Properties. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 846-857	3.5	25
79	A facile co-precipitation synthesis of heterostructured ZrO <sub>2</sub>  ZnO nanoparticles as efficient photocatalysts for wastewater treatment. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 13779-13789	4.3	9
78	Ferroelectrics as Smart Mechanical Materials. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702210	24	29
77	Self-templating faceted and spongy single-crystal ZnO nanorods: Resistive switching and enhanced piezoresponse. <i>Materials and Design</i> , <b>2017</b> , 133, 54-61	8.1	13
76	Voltage-Induced Coercivity Reduction in Nanoporous Alloy Films: A Boost toward Energy-Efficient Magnetic Actuation. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701904	15.6	31
75	Micelle-assisted electrodeposition of highly mesoporous Fe-Pt nodular films with soft magnetic and electrocatalytic properties. <i>Nanoscale</i> , <b>2017</b> , 9, 18081-18093	7.7	15
74	Ferromagnetic-like behaviour in bismuth ferrite films prepared by electrodeposition and subsequent heat treatment. <i>RSC Advances</i> , <b>2017</b> , 7, 32133-32138	3.7	10
73	Electrochemical Synthesis of Bismuth Particles: Tuning Particle Shape through Substrate Type within a Narrow Potential Window. <i>Materials</i> , <b>2017</b> , 10,	3.5	6
72	Biodegradable FeMnSi Sputter-Coated Macroporous Polypropylene Membranes for the Sustained Release of Drugs. <i>Nanomaterials</i> , <b>2017</b> , 7,	5.4	2
71	Unraveling the Origin of Magnetism in Mesoporous Cu-Doped SnO <sub>2</sub> Magnetic Semiconductors. <i>Nanomaterials</i> , <b>2017</b> , 7,	5.4	9
70	Inkjet-Printed Chemical Solution Y <sub>2</sub> O <sub>3</sub> Layers for Planarization of Technical Substrates. <i>Coatings</i> , <b>2017</b> , 7, 227	2.9	3
69	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> , <b>2017</b> , 219-241	0.3	3
68	Ni-, Pt- and (Ni/Pt)-doped TiO <sub>2</sub> nanophotocatalysts: A smart approach for sustainable degradation of Rhodamine B dye. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 181, 270-278	21.8	74
67	Composite films combining electrospun fiber network and epitaxial oxide by chemical solution deposition. <i>Journal of Sol-Gel Science and Technology</i> , <b>2016</b> , 80, 277-284	2.3	2
66	Highly efficient electrochemical and chemical hydrogenation of 4-nitrophenol using recyclable narrow mesoporous magnetic CoPt nanowires. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 15676-15687	13	25

65	Nanocasting synthesis of mesoporous SnO <sub>2</sub> with a tunable ferromagnetic response through Ni loading. <i>RSC Advances</i> , <b>2016</b> , 6, 104799-104807	3.7	14
64	Spontaneous formation of spiral-like patterns with distinct periodic physical properties by confined electrodeposition of Co-In disks. <i>Scientific Reports</i> , <b>2016</b> , 6, 30398	4.9	8
63	Single step electrosynthesis of NiMnGa alloys. <i>Electrochimica Acta</i> , <b>2016</b> , 204, 199-205	6.7	2
62	Designing new biocompatible glass-forming Ti <sub>75-x</sub> Zr <sub>10</sub> Nb <sub>x</sub> Si <sub>15</sub> (x = 0, 15) alloys: corrosion, passivity, and apatite formation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2016</b> , 104, 27-38	3.5	18
61	Tailoring Staircase-like Hysteresis Loops in Electrodeposited Trisegmented Magnetic Nanowires: a Strategy toward Minimization of Interwire Interactions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 4109-17	9.5	17
60	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> , <b>2016</b> , 371, 399-406	6.7	3
59	Effect of Surface Modifications of Ti <sub>40</sub> Zr <sub>10</sub> Cu <sub>38</sub> Pd <sub>12</sub> Bulk Metallic Glass and Ti-6Al-4V Alloy on Human Osteoblasts In Vitro Biocompatibility. <i>PLoS ONE</i> , <b>2016</b> , 11, e0156644	3.7	9
58	The Influence of Pore Size on the Indentation Behavior of Metallic Nanoporous Materials: A Molecular Dynamics Study. <i>Materials</i> , <b>2016</b> , 9,	3.5	16
57	Reusable and Long-Lasting Active Microcleaners for Heterogeneous Water Remediation. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 4152-4161	15.6	59
56	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> , <b>2016</b> , 17, 177-187	7.1	3
55	Electrodeposition of sizeable and compositionally tunable rhodium-iron nanoparticles and their activity toward hydrogen evolution reaction. <i>Electrochimica Acta</i> , <b>2016</b> , 194, 263-275	6.7	13
54	Novel Fe-Mn-Si-Pd alloys: insights into mechanical, magnetic, corrosion resistance and biocompatibility performances. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 6402-6412	7.3	26
53	Magnetometry of Individual Polycrystalline Ferromagnetic Nanowires. <i>Small</i> , <b>2016</b> , 12, 6363-6369	11	11
52	Dually actuated atomic force microscope with miniaturized magnetic bead-actuators for single-molecule force measurements. <i>Nanoscale Horizons</i> , <b>2016</b> , 1, 488-495	10.8	3
51	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> , <b>2016</b> , 3, 1600336	4.6	5
50	Tunable High-Field Magnetization in Strongly Exchange-Coupled Freestanding Co/CoO Core/Shell Coaxial Nanowires. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 22477-83	9.5	22
49	A new reversal mode in exchange coupled antiferromagnetic/ferromagnetic disks: distorted viscous vortex. <i>Nanoscale</i> , <b>2015</b> , 7, 9878-85	7.7	16
48	Multisegmented FeCo/Cu nanowires: electrosynthesis, characterization, and magnetic control of biomolecule desorption. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 7389-96	9.5	46

47	The electrochemical manipulation of apolar solvent drops in aqueous electrolytes by altering the surface polarity of polypyrrole architectures. <i>Electrochemistry Communications</i> , <b>2015</b> , 54, 32-35	5.1	6
46	New binuclear copper(II) coordination polymer based on mixed pyrazolic and oxalate ligands: structural characterization and mechanical properties. <i>RSC Advances</i> , <b>2015</b> , 5, 32369-32375	3.7	4
45	Shape-switching microrobots for medical applications: the influence of shape in drug delivery and locomotion. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 6803-11	9.5	97
44	Magnetically driven Bi <sub>2</sub> O <sub>3</sub> /BiOCl-based hybrid microrobots for photocatalytic water remediation. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 23670-23676	13	82
43	Mobility-Enhancing Coatings for Vitreoretinal Surgical Devices: Hydrophilic and Enzymatic Coatings Investigated by Microrheology. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 22018-28	9.5	7
42	The biocompatibility and anti-biofouling properties of magnetic core-multishell Fe@C NWs-AAO nanocomposites. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 13274-9	3.6	3
41	High Temperature Magnetic Stabilization of Cobalt Nanoparticles by an Antiferromagnetic Proximity Effect. <i>Physical Review Letters</i> , <b>2015</b> , 115, 057201	7.4	55
40	Hybrid helical magnetic microrobots obtained by 3D template-assisted electrodeposition. <i>Small</i> , <b>2014</b> , 10, 1284-8	11	93
39	Self-organized spatio-temporal micropatterning in ferromagnetic Co <sub>11</sub> films. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 8259-8269	7.1	8
38	Fabrication of segmented Au/Co/Au nanowires: insights in the quality of Co/Au junctions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 14583-9	9.5	32
37	Facile in situ synthesis of BiOCl nanoplates stacked to highly porous TiO <sub>2</sub> : synergistic combination for environmental remediation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 13994-4000	9.5	43
36	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> , <b>2014</b> , 610, 118-125	5.7	12
35	Design of New N-polyether Pyrazole Derived Ligands: Synthesis, Characterization and Regioselectivity. <i>Current Organic Synthesis</i> , <b>2014</b> , 11, 149-155	1.9	1
34	Improvement to the Corrosion Resistance of Ti-Based Implants Using Hydrothermally Synthesized Nanostructured Anatase Coatings. <i>Materials</i> , <b>2014</b> , 7, 180-194	3.5	39
33	Lithography: Hybrid Helical Magnetic Microrobots Obtained by 3D Template-Assisted Electrodeposition (Small 7/2014). <i>Small</i> , <b>2014</b> , 10, 1234-1234	11	2
32	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> , <b>2014</b> , 15, 035015	7.1	11
31	Mesoporous Oxide-Diluted Magnetic Semiconductors Prepared by Co Implantation in Nanocast 3D-Ordered In <sub>2</sub> O <sub>3</sub> Materials. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 17084-17091	3.8	14
30	Ordered arrays of ferromagnetic, compositionally graded Cu <sub>1-x</sub> Ni <sub>x</sub> alloy nanopillars prepared by template-assisted electrodeposition. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 7215	7.1	11



29	Highly ordered mesoporous magnesium niobate high- $\epsilon$ dielectric ceramic: synthesis, structural/mechanical characterization and thermal stability. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 4948	7.1	4
28	Resolving material-specific structures within FeO/MnO core/shell nanoparticles using anomalous small-angle X-ray scattering. <i>ACS Nano</i> , <b>2013</b> , 7, 921-31	16.7	35
27	Controlled 3D-coating of the pores of highly ordered mesoporous antiferromagnetic Co <sub>3</sub> O <sub>4</sub> replicas with ferrimagnetic Fe(x)Co(3-x)O <sub>4</sub> nanolayers. <i>Nanoscale</i> , <b>2013</b> , 5, 5561-7	7.7	12
26	3D hierarchically porous Cu-BiOCl nanocomposite films: one-step electrochemical synthesis, structural characterization and nanomechanical and photoluminescent properties. <i>Nanoscale</i> , <b>2013</b> , 5, 12542-50	7.7	31
25	Cobalt-BiCkel microcantilevers for biosensing. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2013</b> , 24, 2215-2220	2.3	4
24	Nanocasting of Mesoporous In-TM (TM = Co, Fe, Mn) Oxides: Towards 3D Diluted-Oxide Magnetic Semiconductor Architectures. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 900-911	15.6	35
23	Graphite Coating of Iron Nanowires for Nanorobotic Applications: Synthesis, Characterization and Magnetic Wireless Manipulation. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 823-831	15.6	38
22	Novel Ti-Zr-Hf-Fe Nanostructured Alloy for Biomedical Applications. <i>Materials</i> , <b>2013</b> , 6, 4930-4945	3.5	23
21	EEL spectroscopic tomography: towards a new dimension in nanomaterials analysis. <i>Ultramicroscopy</i> , <b>2012</b> , 122, 12-8	3.1	32
20	Nanostructured $\beta$ -phase Ti <sub>1.0</sub> Fe <sub>0.0</sub> Sn and sub- $\beta$ structured Ti <sub>0.9</sub> Nb <sub>0.3</sub> Zr <sub>0.7</sub> Ta alloys for biomedical applications: Microstructure benefits on the mechanical and corrosion performances. <i>Materials Science and Engineering C</i> , <b>2012</b> , 32, 2418-2425	8.3	66
19	Helical and tubular lipid microstructures that are electroless-coated with CoNiReP for wireless magnetic manipulation. <i>Small</i> , <b>2012</b> , 8, 1498-502	11	39
18	Hard and transparent films formed by nanocellulose-TiO <sub>2</sub> nanoparticle hybrids. <i>PLoS ONE</i> , <b>2012</b> , 7, e45838	3.7	70
17	Two-, three-, and four-component magnetic multilayer onion nanoparticles based on iron oxides and manganese oxides. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 16738-41	16.4	50
16	A transparent hybrid of nanocrystalline cellulose and amorphous calcium carbonate nanoparticles. <i>Nanoscale</i> , <b>2011</b> , 3, 3563-6	7.7	74
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14	The Influence of Deformation-Induced Martensitic Transformations on the Mechanical Properties of Nanocomposite Cu-Zr-(Al) Systems. <i>Advanced Engineering Materials</i> , <b>2011</b> , 13, 57-63	3.5	16
13	Size-dependent passivation shell and magnetic properties in antiferromagnetic/ferrimagnetic core/shell MnO nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 9398-407	16.4	100
12	Nanocrystalline Electroplated Cu <sub>2</sub> Ni: Metallic Thin Films with Enhanced Mechanical Properties and Tunable Magnetic Behavior. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 983-991	15.6	73

11	Out-of-plane magnetic patterning based on indentation-induced nanocrystallization of a metallic glass. <i>Small</i> , <b>2010</b> , 6, 1543-9	11	16
10	Work-hardening mechanisms of the Ti60Cu14Ni12Sn4Nb10 nanocomposite alloy. <i>Journal of Materials Research</i> , <b>2009</b> , 24, 3146-3153	2.5	11
9	Direct magnetic patterning due to the generation of ferromagnetism by selective ion irradiation of paramagnetic FeAl alloys. <i>Small</i> , <b>2009</b> , 5, 229-34	11	63
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7	Cold Consolidation of Metal/Ceramic Nanocomposite Powders with Large Ceramic Fractions. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 3293-3298	15.6	27
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1	Optimized Synthesis of the Elusive $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> Phase via Sol-Gel Chemistry. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 5542-5548	9.6	117