

## List of Publications by Citations

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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.

248 papers	19,366 citations	60 h-index	135 g-index
264 ext. papers	20,540 ext. citations	6.4 avg, IF	6.52 L-index

#	Paper	IF	Citations
248	Exchange bias. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1999</b> , 192, 203-232	2.8	3904
247	Exchange bias in nanostructures. <i>Physics Reports</i> , <b>2005</b> , 422, 65-117	27.7	1563
246	Beating the superparamagnetic limit with exchange bias. <i>Nature</i> , <b>2003</b> , 423, 850-3	50.4	1335
245	Ordered magnetic nanostructures: fabrication and properties. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2003</b> , 256, 449-501	2.8	801
244	Making flexible magnetic aerogels and stiff magnetic nanopaper using cellulose nanofibrils as templates. <i>Nature Nanotechnology</i> , <b>2010</b> , 5, 584-8	28.7	684
243	Positive exchange bias in FeF <sub>2</sub> -Fe bilayers. <i>Physical Review Letters</i> , <b>1996</b> , 76, 4624-4627	7.4	448
242	Flux Pinning in a Superconductor by an Array of Submicrometer Magnetic Dots. <i>Physical Review Letters</i> , <b>1997</b> , 79, 1929-1932	7.4	447
241	Applications of exchange coupled bi-magnetic hard/soft and soft/hard magnetic core/shell nanoparticles. <i>Physics Reports</i> , <b>2015</b> , 553, 1-32	27.7	310
240	Asymmetric magnetization reversal in exchange-biased hysteresis loops. <i>Physical Review Letters</i> , <b>2000</b> , 84, 3986-9	7.4	296
239	Synthesis and size-dependent exchange bias in inverted core-shell MnO Mn <sub>3</sub> O <sub>4</sub> nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 9102-8	16.4	248
238	Coercivity enhancement in exchange biased systems driven by interfacial magnetic frustration. <i>Physical Review Letters</i> , <b>2000</b> , 84, 3466-9	7.4	239
237	Origin of the asymmetric magnetization reversal behavior in exchange-biased systems: competing anisotropies. <i>Physical Review Letters</i> , <b>2005</b> , 95, 057204	7.4	234
236	Correlation between antiferromagnetic interface coupling and positive exchange bias. <i>Physical Review B</i> , <b>2000</b> , 61, 1315-1317	3.3	216
235	Cubic versus spherical magnetic nanoparticles: the role of surface anisotropy. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 13234-9	16.4	196
234	Shell-driven magnetic stability in core-shell nanoparticles. <i>Physical Review Letters</i> , <b>2006</b> , 97, 157203	7.4	179
233	Designer magnetoplasmonics with nickel nanoferrromagnets. <i>Nano Letters</i> , <b>2011</b> , 11, 5333-8	11.5	173
232	A.c. susceptibility and intergranular critical current density of high T <sub>c</sub> superconductors. <i>Cryogenics</i> , <b>1989</b> , 29, 800-808	1.8	172

231	Plasmonic nickel nanoantennas. <i>Small</i> , <b>2011</b> , 7, 2341-7	11	150
230	Perpendicular coupling at Fe/FeF <sub>2</sub> interfaces. <i>Applied Physics Letters</i> , <b>1998</b> , 72, 617-619	3.4	142
229	Role of interfacial structure on exchange-biased FeF <sub>2</sub> /Fe. <i>Physical Review B</i> , <b>1999</b> , 59, 6984-6993	3.3	137
228	Large exchange bias and its connection to interface structure in FeF <sub>2</sub> /Fe bilayers. <i>Applied Physics Letters</i> , <b>1996</b> , 68, 3186-3188	3.4	133
227	Robust antiferromagnetic coupling in hard-soft bi-magnetic core/shell nanoparticles. <i>Nature Communications</i> , <b>2013</b> , 4, 2960	17.4	132
226	Antisites and electron-doping effects on the magnetic transition of Sr <sub>2</sub> FeMoO <sub>6</sub> double perovskite. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	127
225	High- and Low-Temperature Crystal and Magnetic Structures of Fe <sub>2</sub> O <sub>3</sub> and Their Correlation to Its Magnetic Properties. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 3889-3897	9.6	124
224	Iron filled single-wall carbon nanotubes [A novel ferromagnetic medium. <i>Chemical Physics Letters</i> , <b>2006</b> , 421, 129-133	2.5	118
223	Optimized Synthesis of the Elusive 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
222	Two-stage magnetization reversal in exchange biased bilayers. <i>Physical Review Letters</i> , <b>2001</b> , 86, 4394-7	7.4	115
221	Differences in the Magnetic Properties of Co, Fe, and Ni 250/300 nm Wide Nanowires Electrodeposited in Amorphous Anodized Alumina Templates. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 1829-1834	9.6	111
220	Magnetic susceptibility of sintered and powdered Y-Ba-Cu-O. <i>Journal of Applied Physics</i> , <b>1988</b> , 63, 980-983	3.5	108
219	Tuning exchange bias. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 2304-2306	3.4	104
218	Fabrication and thermal stability of arrays of Fe nanodots. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 4434-4436	3.4	103
217	Room-temperature coercivity enhancement in mechanically alloyed antiferromagnetic-ferromagnetic powders. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 3177-3179	3.4	103
216	Microstructural effects and large microhardness in cobalt processed by high pressure torsion consolidation of ball milled powders. <i>Acta Materialia</i> , <b>2003</b> , 51, 6385-6393	8.4	102
215	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
214	Emergence of noncollinear anisotropies from interfacial magnetic frustration in exchange-bias systems. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	100

213	Improving the energy product of hard magnetic materials. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	98
212	Coercivity and squareness enhancement in ball-milled hard magnetic-antiferromagnetic composites. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 1142-1144	3.4	91
211	Exploiting Length Scales of Exchange-Bias Systems to Fully Tailor Double-Shifted Hysteresis Loops. <i>Advanced Materials</i> , <b>2005</b> , 17, 2978-2983	24	89
210	Nonzero orbital moment in high coercivity $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> and low-temperature collapse of the magnetocrystalline anisotropy. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	88
209	Large coercivity and low-temperature magnetic reorientation in $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> nanoparticles. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 044307	2.5	85
208	Tuning the magneto-optical response of nanosize ferromagnetic Ni disks using the phase of localized plasmons. <i>Physical Review Letters</i> , <b>2013</b> , 111, 167401	7.4	84
207	Effect of anisotropy on the critical antiferromagnet thickness in exchange-biased bilayers. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	84
206	Competing interfacial exchange and Zeeman energies in exchange biased bilayers. <i>Physical Review B</i> , <b>1999</b> , 60, 12837-12840	3.3	82
205	Influence of magnetization on the reordering of nanostructured ball-milled Fe-40 at. % Al powders. <i>Physical Review B</i> , <b>1998</b> , 58, R11864-R11867	3.3	77
204	Highly active ZnO-based biomimetic fern-like microleaves for photocatalytic water decontamination using sunlight. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 248, 129-146	21.8	76
203	Magnetic proximity effect features in antiferromagnetic/ferrimagnetic core-shell nanoparticles. <i>Physical Review Letters</i> , <b>2009</b> , 102, 247201	7.4	74
202	Exchange bias in ferromagnetic nanoparticles embedded in an antiferromagnetic matrix. <i>International Journal of Nanotechnology</i> , <b>2005</b> , 2, 23	1.5	74
201	Synthesis of compositionally graded nanocast NiO/NiCo <sub>2</sub> O <sub>4</sub> /Co <sub>3</sub> O <sub>4</sub> mesoporous composites with tunable magnetic properties. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 7021		73
200	Nanocrystalline Electroplated Cu <sub>90</sub> Ni <sub>10</sub> : 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
199	Tailoring the exchange bias via shape anisotropy in ferromagnetic/antiferromagnetic exchange-coupled systems. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	73
198	Fabrication of submicrometric magnetic structures by electron-beam lithography. <i>Journal of Applied Physics</i> , <b>1998</b> , 84, 411-415	2.5	67
197	Enhanced magnetic properties in antiferromagnetic-core/ferrimagnetic-shell nanoparticles. <i>Scientific Reports</i> , <b>2015</b> , 5, 9609	4.9	66
196	Strongly exchange coupled inverse ferrimagnetic soft/hard, Mn(x)Fe(3-x)O <sub>4</sub> /Fe(x)Mn(3-x)O <sub>4</sub> , core/shell heterostructured nanoparticles. <i>Nanoscale</i> , <b>2012</b> , 4, 5138-47	7.7	66

195	Steam purification for the removal of graphitic shells coating catalytic particles and the shortening of single-walled carbon nanotubes. <i>Small</i> , <b>2008</b> , 4, 1501-6	11	66
194	Antiferromagnetic spin flop and exchange bias. <i>Physical Review B</i> , <b>2000</b> , 61, R6455-R6458	3.3	66
193	Bean <sup>B</sup> , Kim <sup>B</sup> , and exponential critical-state models for high-T <sub>c</sub> superconductors. <i>Physical Review B</i> , <b>1990</b> , 41, 9510-9512	3.3	66
192	Relation between exchange anisotropy and magnetization reversal asymmetry in Fe/MnF <sub>2</sub> bilayers. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	65
191	Microstructural aspects of the hcp-fcc allotropic phase transformation induced in cobalt by ball milling. <i>Philosophical Magazine</i> , <b>2003</b> , 83, 439-455	1.6	64
190	Origin of the large dispersion of magnetic properties in nanostructured oxides: Fe(x)O/Fe <sub>3</sub> O <sub>4</sub> nanoparticles as a case study. <i>Nanoscale</i> , <b>2015</b> , 7, 3002-15	7.7	63
189	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
188	Exchange bias effects in Fe nanoparticles embedded in an antiferromagnetic Cr <sub>2</sub> O <sub>3</sub> matrix. <i>Nanotechnology</i> , <b>2004</b> , 15, S211-S214	3.4	58
187	Influence of in-plane crystalline quality of an antiferromagnet on perpendicular exchange coupling and exchange bias. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	57
186	Coercivity enhancement above the N <sub>B</sub> I temperature of an antiferromagnet/ferromagnet bilayer. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 1483-1488	2.5	57
185	Volume expansion contribution to the magnetism of atomically disordered intermetallic alloys. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	56
184	Spin waves in exchange-biased Fe/FeF <sub>2</sub> . <i>Physical Review B</i> , <b>1999</b> , 59, 3333-3336	3.3	56
183	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
182	Exchange anisotropy and the antiferromagnetic surface order parameter. <i>Physical Review B</i> , <b>1997</b> , 56, 2332-2335	3.3	55
181	Magnetization reversal in submicron disks: exchange biased vortices. <i>Physical Review Letters</i> , <b>2005</b> , 95, 067201	7.4	55
180	Seeded Growth Synthesis of AuFe <sub>3</sub> O <sub>4</sub> Heterostructured Nanocrystals: Rational Design and Mechanistic Insights. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 4022-4035	9.6	53
179	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 &amp; Interfaces</i> , <b>2011</b> , 3, 2265-74	9.5	52
178	Correlation between stacking fault formation, allotropic phase transformations and magnetic properties of ball-milled cobalt. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 375-377, 869-873	5.3	52

177	Role of stacking faults in the structural and magnetic properties of ball-milled cobalt. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	51
176	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
175	Continuously graded anisotropy in single (Fe <sub>53</sub> Pt <sub>47</sub> ) <sub>100-x</sub> Cu <sub>x</sub> films. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 182504	3.4	50
174	Highly asymmetric magnetic behavior in exchange biased systems induced by noncollinear field cooling. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 122508	3.4	50
173	High anisotropy Sm <sup>2+</sup> /Co nanoparticles: Preparation by cluster gun technique and their magnetic properties. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 7592-7594	2.5	48
172	Using magnetoresistance to probe reversal asymmetry in exchange biased bilayers. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 344-347	2.5	47
171	3D Visualization of the Iron Oxidation State in FeO/Fe <sub>3</sub> O <sub>4</sub> Core-Shell Nanocubes from Electron Energy Loss Tomography. <i>Nano Letters</i> , <b>2016</b> , 16, 5068-73	11.5	47
170	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
169	Isothermal tuning of exchange bias using pulsed fields. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 3044-3046	3.4	46
168	Remanence Plots as a Probe of Spin Disorder in Magnetic Nanoparticles. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 8258-8268	9.6	45
167	Induced anisotropy and positive exchange bias: A temperature, angular, and cooling field study by ferromagnetic resonance. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	45
166	Highly reduced ecotoxicity of ZnO-based micro/nanostructures on aquatic biota: Influence of architecture, chemical composition, fixation, and photocatalytic efficiency. <i>Water Research</i> , <b>2020</b> , 169, 115210	12.5	44
165	Imprinting vortices into antiferromagnets. <i>Physical Review Letters</i> , <b>2006</b> , 97, 067201	7.4	43
164	Hardening and softening of FeAl during milling and annealing. <i>Intermetallics</i> , <b>2000</b> , 8, 805-813	3.5	43
163	Reversible post-synthesis tuning of the superparamagnetic blocking temperature of Fe <sub>2</sub> O <sub>3</sub> nanoparticles by adsorption and desorption of Co(II) ions. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 322-328		42
162	Precise Size Control of the Growth of FeO Nanocubes over a Wide Size Range Using a Rationally Designed One-Pot Synthesis. <i>ACS Nano</i> , <b>2019</b> , 13, 7716-7728	16.7	41
161	Enhanced ferromagnetic interactions in electron doped Nd <sub>x</sub> Sr <sub>2-x</sub> FeMoO <sub>6</sub> double perovskites. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, 3173-3182	1.8	41
160	Hybrid Ni@ZnO@ZnS-Microalgae for Circular Economy: A Smart Route to the Efficient Integration of Solar Photocatalytic Water Decontamination and Bioethanol Production. <i>Advanced Science</i> , <b>2020</b> , 7, 1902447	13.6	40

159	Direct evidence for an interdiffused intermediate layer in bi-magnetic core-shell nanoparticles. <i>Nanoscale</i> , <b>2014</b> , 6, 11911-20	7.7	39
158	Enhanced Ultrafast Nonlinear Optical Response in Ferrite Core/Shell Nanostructures with Excellent Optical Limiting Performance. <i>Small</i> , <b>2018</b> , 14, 1701001	11	38
157	Enhanced Coercivity in Co-Rich Near-Stoichiometric $\text{CoFe}_{3-x}\text{O}_4$ Nanoparticles Prepared in Large Batches. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 4957-4963	9.6	38
156	Controlled Reduction of NiO Using Reactive Ball Milling under Hydrogen Atmosphere Leading to Ni/NiO Nanocomposites. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 5664-5669	9.6	38
155	Mesoscopic model for the simulation of large arrays of bi-magnetic core/shell nanoparticles. <i>Advanced Materials</i> , <b>2012</b> , 24, 4331-6	24	37
154	Nanostructured MnGa Films on Si/SiO <sub>2</sub> with 20.5 kOe room temperature coercivity. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 093902	2.5	37
153	Green electrochemical template synthesis of CoPt nanoparticles with tunable size, composition, and magnetism from microemulsions using an ionic liquid (bmimPF <sub>6</sub> ). <i>ACS Nano</i> , <b>2014</b> , 8, 4630-9	16.7	36
152	Ion mass dependence of irradiation-induced local creation of ferromagnetism in Fe <sub>60</sub> Al <sub>40</sub> alloys. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	36
151	Changes in ferromagnetic spin structure induced by exchange bias in Fe/MnF <sub>2</sub> films. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	36
150	Origin of complex exchange anisotropy in Fe/MnF <sub>2</sub> bilayers. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	36
149	Oxide Wizard: an EELS application to characterize the white lines of transition metal edges. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 698-705	0.5	35
148	Resolving material-specific structures within Fe <sub>3</sub> O <sub>4</sub> /MnO <sub>2</sub> core/shell nanoparticles using anomalous small-angle X-ray scattering. <i>ACS Nano</i> , <b>2013</b> , 7, 921-31	16.7	35
147	Magnetic properties of ball milled Fe-40 Al at.% alloys. <i>IEEE Transactions on Magnetics</i> , <b>1998</b> , 34, 1129-1131	13.1	34
146	Distinguishing the core from the shell in MnO(x)/MnO(y) and FeO(x)/MnO(x) core/shell nanoparticles through quantitative electron energy loss spectroscopy (EELS) analysis. <i>Micron</i> , <b>2012</b> , 43, 30-6	2.3	33
145	Magneto-optical study of magnetization reversal asymmetry in exchange bias. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 202512	3.4	33
144	Cold compaction of metal/ceramic (ferromagnetic/antiferromagnetic) composites using high pressure torsion. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 434-435, 505-508	5.7	33
143	Magnetization reversal in long chains of submicrometric Co dots. <i>Applied Physics Letters</i> , <b>1998</b> , 72, 255-257	3.4	33
142	Unveiling a New High-Temperature Ordered Magnetic Phase in Fe <sub>2</sub> O <sub>3</sub> . <i>Chemistry of Materials</i> , <b>2017</b> , 29, 9705-9713	9.6	32



141	Magnetization reversal in circularly exchange-biased ferromagnetic disks. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	32
140	Direct Synthesis of Isolated L10 FePt Nanoparticles in a Robust TiO2 Matrix via a Combined Sol-Gel/Pyrolysis Route. <i>Advanced Materials</i> , <b>2006</b> , 18, 466-470	24	32
139	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
138	Polarizability and magnetoplasmonic properties of magnetic general nanoellipsoids. <i>Optics Express</i> , <b>2013</b> , 21, 9875-89	3.3	31
137	First-order reversal curve analysis of graded anisotropy FePtCu films. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 202501	3.4	31
136	Tailoring of paramagnetic (structurally ordered) nanometric grains separated by ferromagnetic (structurally disordered) grain boundaries: Isolating grain-boundary magnetic effects. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	31
135	Measurements of the ferromagnetic/antiferromagnetic interfacial exchange energy in CO/CoO and Fe/FeF2 layers (invited). <i>Journal of Applied Physics</i> , <b>1998</b> , 83, 6893-6895	2.5	31
134	Simultaneous in-plane and out-of-plane exchange bias using a single antiferromagnetic layer resolved by x-ray magnetic circular dichroism. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 152515	3.4	29
133	Periodic Arrays of Micrometer and Sub-micrometer Magnetic Structures Prepared by Nanoindentation of a Nonmagnetic Intermetallic Compound. <i>Advanced Materials</i> , <b>2006</b> , 18, 1717-1720	24	29
132	Exchange bias in antiferromagnetic-ferromagnetic-antiferromagnetic structures with out-of-plane magnetization. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	29
131	Ultraporous single phase iron oxide-silica nanostructured aerogels from ferrous precursors. <i>Langmuir</i> , <b>2004</b> , 20, 1425-9	4	28
130	Room temperature magnetic hardening in mechanically milled ferromagnetic-antiferromagnetic composites. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2000</b> , 219, 53-57	2.8	28
129	Influence of interfacial disorder and temperature on magnetization reversal in exchange-coupled bilayers. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	28
128	Maximizing Exchange Bias in Co/CoO Core/Shell Nanoparticles by Lattice Matching between the Shell and the Embedding Matrix. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 5200-5206	9.6	27
127	Probing vertically graded anisotropy in FePtCu films. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	27
126	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
125	Selective generation of local ferromagnetism in austenitic stainless steel using nanoindentation. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 032509	3.4	27
124	High-coercivity ultralight transparent magnets. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 4307-4309	3.4	26



123	Voltage-driven motion of nitrogen ions: a new paradigm for magneto-ionics. <i>Nature Communications</i> , <b>2020</b> , 11, 5871	17.4	26
122	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
121	Exchange coupling mechanism for magnetization reversal and thermal stability of Co nanoparticles embedded in a CoO matrix. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2005</b> , 294, 111-116	2.8	25
120	Nanostructures and the proximity effect. <i>Journal Physics D: Applied Physics</i> , <b>2002</b> , 35, 2398-2402	3	25
119	HighT <sub>c</sub> superconductive materials: Bulk or twinned domain/grain boundary percolative network superconductors?. <i>European Physical Journal B</i> , <b>1988</b> , 70, 9-13	1.2	25
118	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
117	Simultaneous Local Heating/Thermometry Based on Plasmonic Magnetochromic Nanoheaters. <i>Small</i> , <b>2018</b> , 14, e1800868	11	24
116	Improved magnetoresistance through spacer thickness optimization in tilted pseudo spin valves based on L10 (111)-oriented FePtCu fixed layers. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 053909	2.5	23
115	Galvanic Replacement onto Complex Metal-Oxide Nanoparticles: Impact of Water or Other Oxidizers in the Formation of either Fully Dense Onion-like or Multicomponent Hollow MnOx/FeOx Structures. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 8025-8031	9.6	22
114	Fractal dimension of thin film surfaces of gold sputter deposited on mica: a scanning tunneling microscopic study. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1992</b> , 182, 532-541	3.3	22
113	Effective ionic-liquid microemulsion based electrodeposition of mesoporous CoPt films for methanol oxidation catalysis in alkaline media. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 7805-7814	13	22
112	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
111	Role of anisotropy configuration in exchange-biased systems. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 07D739	7.9	21
110	Direct measurement of depth-dependent Fe spin structure during magnetization reversal in Fe/MnF <sub>2</sub> exchange-coupled bilayers. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	21
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