

Josep Nogues

List of Publications by Year in descending order

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256
papers

21,620
citations

17405

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142
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265
docs citations

265
times ranked

14970
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastic Plasmonic-Enhanced Fabry-Pérot Cavities with Ultrasensitive Stretching Tunability. <i>Advanced Materials</i> , 2022, 34, e2106731.	11.1	7
2	Crossover From Individual to Collective Magnetism in Dense Nanoparticle Systems: Local Anisotropy Versus Dipolar Interactions. <i>Small</i> , 2022, 18, .	5.2	16
3	Probing the meta-stability of oxide core/shell nanoparticle systems at atomic resolution. <i>Chemical Engineering Journal</i> , 2021, 405, 126820.	6.6	8
4	Ultrabroadband light absorbing Fe/polymer flexible metamaterial for soft opto-mechanical devices. <i>Applied Materials Today</i> , 2021, 23, 101052.	2.3	8
5	Direct Evidence of a Graded Magnetic Interface in Bimagnetic Core/Shell Nanoparticles Using Electron Magnetic Circular Dichroism (EMCD). <i>Nano Letters</i> , 2021, 21, 6923-6930.	4.5	8
6	Mechanochromic Detection for Soft Opto-Magnetic Actuators. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 47871-47881.	4.0	10
7	Highly reduced ecotoxicity of ZnO-based micro/nanostructures on aquatic biota: Influence of architecture, chemical composition, fixation, and photocatalytic efficiency. <i>Water Research</i> , 2020, 169, 115210.	5.3	57
8	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> , 2020, 7, 1902447.	5.6	49
9	Voltage-driven motion of nitrogen ions: a new paradigm for magneto-ionics. <i>Nature Communications</i> , 2020, 11, 5871.	5.8	42
10	Local manipulation of metamagnetism by strain nanopatterning. <i>Materials Horizons</i> , 2020, 7, 2056-2062.	6.4	11
11	Simultaneous Individual and Dipolar Collective Properties in Binary Assemblies of Magnetic Nanoparticles. <i>Chemistry of Materials</i> , 2020, 32, 969-981.	3.2	26
12	Zinc blende and wurtzite CoO polymorph nanoparticles: Rational synthesis and commensurate and incommensurate magnetic order. <i>Applied Materials Today</i> , 2019, 16, 322-331.	2.3	8
13	Precise Size Control of the Growth of Fe ₃ O ₄ Nanocubes over a Wide Size Range Using a Rationally Designed One-Pot Synthesis. <i>ACS Nano</i> , 2019, 13, 7716-7728.	7.3	79
14	Highly active ZnO-based biomimetic fern-like microleaves for photocatalytic water decontamination using sunlight. <i>Applied Catalysis B: Environmental</i> , 2019, 248, 129-146.	10.8	98
15	Unravelling the Elusive Antiferromagnetic Order in Wurtzite and Zinc Blende CoO Polymorph Nanoparticles. <i>Small</i> , 2018, 14, e1703963.	5.2	12
16	Tunable Magnetism in Nanoporous CuNi Alloys by Reversible Voltage-Driven Element-Selective Redox Processes. <i>Small</i> , 2018, 14, e1704396.	5.2	16
17	Enhanced Ultrafast Nonlinear Optical Response in Ferrite Core/Shell Nanostructures with Excellent Optical Limiting Performance. <i>Small</i> , 2018, 14, 1701001.	5.2	51
18	Large Magnetoelectric Effects in Electrodeposited Nanoporous Microdisks Driven by Effective Surface Charging and Magneto-Ionics. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 44897-44905.	4.0	26

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19	Voltage-Controlled ON/OFF Ferromagnetism at Room Temperature in a Single Metal Oxide Film. ACS Nano, 2018, 12, 10291-10300.	7.3	57
20	Atomic-Scale Determination of Cation Inversion in Spinel-Based Oxide Nanoparticles. Nano Letters, 2018, 18, 5854-5861.	4.5	24
21	Simultaneous Local Heating/Thermometry Based on Plasmonic Magneto-chromic Nanoheaters. Small, 2018, 14, e1800868.	5.2	31
22	Combining X-Ray Whole Powder Pattern Modeling, Rietveld and Pair Distribution Function Analyses as a Novel Bulk Approach to Study Interfaces in Heteronanostructures: Oxidation Front in FeO/Fe ₃ O ₄ Core/Shell Nanoparticles as a Case Study. Small, 2018, 14, e1800804.	5.2	15
23	Coercivity Modulation in Fe/Cu Pseudo-Ordered Porous Thin Films Controlled by an Applied Voltage: A Sustainable, Energy-Efficient Approach to Magnetoelectrically Driven Materials. Advanced Science, 2018, 5, 1800499.	5.6	15
24	Magnetically amplified photothermal therapies and multimodal imaging with magneto-plasmonic nanodomains. Applied Materials Today, 2018, 12, 430-440.	2.3	20
25	Lateral Magnetically Modulated Multilayers by Combining Ion Implantation and Lithography. Small, 2017, 13, 1603465.	5.2	11
26	Maximizing Exchange Bias in Co/CoO Core/Shell Nanoparticles by Lattice Matching between the Shell and the Embedding Matrix. Chemistry of Materials, 2017, 29, 5200-5206.	3.2	38
27	Magnetically-actuated mesoporous nanowires for enhanced heterogeneous catalysis. Applied Catalysis B: Environmental, 2017, 217, 81-91.	10.8	26
28	Seeded Growth Synthesis of Au/Fe ₃ O ₄ Heterostructured Nanocrystals: Rational Design and Mechanistic Insights. Chemistry of Materials, 2017, 29, 4022-4035.	3.2	67
29	Unveiling a New High-Temperature Ordered Magnetic Phase in γ -Fe ₂ O ₃ . Chemistry of Materials, 2017, 29, 9705-9713.	3.2	47
30	Novel Ba-hexaferrite structural variations stabilized on the nanoscale as building blocks for epitaxial bi-magnetic hard/soft sandwiched maghemite/hexaferrite/maghemite nanoplatelets with out-of-plane easy axis and enhanced magnetization. Nanoscale, 2017, 9, 17551-17560.	2.8	16
31	Remanence Plots as a Probe of Spin Disorder in Magnetic Nanoparticles. Chemistry of Materials, 2017, 29, 8258-8268.	3.2	61
32	Voltage-Induced Coercivity Reduction in Nanoporous Alloy Films: A Boost toward Energy-Efficient Magnetic Actuation. Advanced Functional Materials, 2017, 27, 1701904.	7.8	41
33	3D Visualization of the Iron Oxidation State in FeO/Fe ₃ O ₄ Core-Shell Nanocubes from Electron Energy Loss Tomography. Nano Letters, 2016, 16, 5068-5073.	4.5	56
34	Effective ionic-liquid microemulsion based electrodeposition of mesoporous Co/Pt films for methanol oxidation catalysis in alkaline media. Journal of Materials Chemistry A, 2016, 4, 7805-7814.	5.2	28
35	Modeling the collective magnetic behavior of highly-packed arrays of multi-segmented nanowires. New Journal of Physics, 2016, 18, 013026.	1.2	20
36	Tunable High-Field Magnetization in Strongly Exchange-Coupled Freestanding Co/CoO Core/Shell Coaxial Nanowires. ACS Applied Materials & Interfaces, 2016, 8, 22477-22483.	4.0	26

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37	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.	5.2	33
38	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.	1.6	9
39	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 MnO _x /FeO _x Structures. <i>Chemistry of Materials</i> , 2016, 28, 8025-8031.	3.2	28
40	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, 4109-4117.	4.0	23
41	Electrochemically synthesized amorphous and crystalline nanowires: dissimilar nanomechanical behavior in comparison with homologous flat films. <i>Nanoscale</i> , 2016, 8, 1344-1351.	2.8	16
42	High Temperature Magnetic Stabilization of Cobalt Nanoparticles by an Antiferromagnetic Proximity Effect. <i>Physical Review Letters</i> , 2015, 115, 057201.	2.9	61
43	Origin of the large dispersion of magnetic properties in nanostructured oxides: Fe _x O/Fe ₃ O ₄ nanoparticles as a case study. <i>Nanoscale</i> , 2015, 7, 3002-3015.	2.8	76
44	A new reversal mode in exchange coupled antiferromagnetic/ferromagnetic disks: distorted viscous vortex. <i>Nanoscale</i> , 2015, 7, 9878-9885.	2.8	18
45	Enhanced Magnetic Properties in Antiferromagnetic-Core/Ferrimagnetic-Shell Nanoparticles. <i>Scientific Reports</i> , 2015, 5, 9609.	1.6	73
46	Applications of exchange coupled bi-magnetic hard/soft and soft/hard magnetic core/shell nanoparticles. <i>Physics Reports</i> , 2015, 553, 1-32.	10.3	391
47	Interdependence between training and magnetization reversal in granular Co-CoO exchange bias systems. <i>Physical Review B</i> , 2014, 89, .	1.1	20
48	Oxide Wizard: An EELS Application to Characterize the White Lines of Transition Metal Edges. <i>Microscopy and Microanalysis</i> , 2014, 20, 698-705.	0.2	38
49	A combinatorial study of the mechanical and magnetic properties of a gradually nitrated austenitic stainless steel single crystal. <i>CrystEngComm</i> , 2014, 16, 3515-3520.	1.3	6
50	Green Electrochemical Template Synthesis of CoPt Nanoparticles with Tunable Size, Composition, and Magnetism from Microemulsions Using an Ionic Liquid (bmimPF ₆). <i>ACS Nano</i> , 2014, 8, 4630-4639.	7.3	37
51	Direct evidence for an interdiffused intermediate layer in bi-magnetic core-shell nanoparticles. <i>Nanoscale</i> , 2014, 6, 11911-11920.	2.8	46
52	One-pot electrosynthesis of multi-layered magnetic metallopolymer nanocomposites. <i>Nanoscale</i> , 2014, 6, 4683.	2.8	11
53	Atomic-Resolution Monitoring of Structural Phase Transition in Bi-magnetic Core/Shell Oxide Nanoparticles. <i>Microscopy and Microanalysis</i> , 2014, 20, 106-107.	0.2	0
54	Mesoporous Oxide-Diluted Magnetic Semiconductors Prepared by Co Implantation in Nanocast 3D-Ordered In ₂ O ₃ . <i>Materials</i> . <i>Journal of Physical Chemistry C</i> , 2013, 117, 17084-17091.	1.5	18

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55	Tuning the Magneto-Optical Response of Nanosize Ferromagnetic Ni Disks Using the Phase of Localized Plasmons. <i>Physical Review Letters</i> , 2013, 111, 167401.	2.9	111
56	Correlating material-specific layers and magnetic distributions within onion-like Fe ₃ O ₄ /MnO/β-Mn ₂ O ₃ core/shell nanoparticles. <i>Journal of Applied Physics</i> , 2013, 113, 17B531.	1.1	20
57	Magnetic Properties of Single Crystalline Expanded Austenite Obtained by Plasma Nitriding of Austenitic Stainless Steel Single Crystals. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10118-10126.	4.0	11
58	Robust antiferromagnetic coupling in hard-soft bi-magnetic core/shell nanoparticles. <i>Nature Communications</i> , 2013, 4, 2960.	5.8	160
59	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.	2.7	11
60	Resolving Material-Specific Structures within Fe ₃ O ₄ /β-Mn ₂ O ₃ Core Shell Nanoparticles Using Anomalous Small-Angle X-ray Scattering. <i>ACS Nano</i> , 2013, 7, 921-931.	7.3	36
61	Improving the Magnetic Properties of Co ²⁺ /CoO Systems by Designed Oxygen Implantation Profiles. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 4320-4327.	4.0	22
62	Controlled 3D-coating of the pores of highly ordered mesoporous antiferromagnetic Co ₃ O ₄ replicas with ferrimagnetic Fe ₃ O ₄ nanolayers. <i>Nanoscale</i> , 2013, 5, 5561.	2.8	12
63	Polarizability and magnetoplasmonic properties of magnetic general nanoellipsoids. <i>Optics Express</i> , 2013, 21, 9875.	1.7	34
64	Peculiar Electrical and Magnetic Properties of La(Ba)MnO ₃ ; Thin Films. <i>Transactions of the Materials Research Society of Japan</i> , 2012, 20thAnniv, 65-76.	0.2	2
65	Mesoscopic Model for the Simulation of Large Arrays of Bi ²⁺ Magnetic Core/Shell Nanoparticles. <i>Advanced Materials</i> , 2012, 24, 4331-4336.	11.1	41
66	Strongly exchange coupled inverse ferrimagnetic soft/hard, Mn _x Fe _{3-x} O ₄ /Fe _x Mn _{3-x} O ₄ , core/shell heterostructured nanoparticles. <i>Nanoscale</i> , 2012, 4, 5138.	2.8	76
67	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> , 2012, 43, 30-36.	1.1	36
68	Graded Anisotropy FePtCu Films. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 1580-1586.	1.2	8
69	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, 16738-16741.	6.6	55
70	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, 2265-2274.	4.0	63
71	Role of anisotropy configuration in exchange-biased systems. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	24
72	Designer Magnetoplasmonics with Nickel Nanoferrromagnets. <i>Nano Letters</i> , 2011, 11, 5333-5338.	4.5	203

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73	Role of the oxygen partial pressure in the formation of composite Co-CoO nanoparticles by reactive aggregation. Journal of Nanoparticle Research, 2011, 13, 4583-4590.	0.8	6
74	Plasmonic Nickel Nanoantennas. Small, 2011, 7, 2341-2347.	5.2	175
75	Tuneable magnetic patterning of paramagnetic Fe ₆₀ Al ₄₀ (at. %) by consecutive ion irradiation through pre-lithographed shadow masks. Journal of Applied Physics, 2011, 109, 093918.	1.1	10
76	Probing vertically graded anisotropy in FePtCu films. Physical Review B, 2011, 84, .	1.1	28
77	Nanostructured MnGa films on Si/SiO ₂ with 20.5 kOe room temperature coercivity. Journal of Applied Physics, 2011, 110, .	1.1	40
78	Exchange-bias-like effect in (111) FePt based pseudo spin valves. Journal of Physics: Conference Series, 2010, 200, 072110.	0.3	0
79	Nanocrystalline Electroplated Cu-Ni: Metallic Thin Films with Enhanced Mechanical Properties and Tunable Magnetic Behavior. Advanced Functional Materials, 2010, 20, 983-991.	7.8	92
80	Size-dependent magnetic behavior and spin-wave gap in MnF_2 epitaxial films with orthorhombic crystal structure. Journal of Magnetism and Magnetic Materials, 2010, 322, 664-667.	1.1	11
81	Out-of-plane Magnetic Patterning Based on Indentation-Induced Nanocrystallization of a Metallic Glass. Small, 2010, 6, 1543-1549.	5.2	18
82	Making flexible magnetic aerogels and stiff magnetic nanopaper using cellulose nanofibrils as templates. Nature Nanotechnology, 2010, 5, 584-588.	15.6	753
83	Synthesis of compositionally graded nanocast NiO/NiCo ₂ O ₄ /Co ₃ O ₄ mesoporous composites with tunable magnetic properties. Journal of Materials Chemistry, 2010, 20, 7021.	6.7	81
84	Out-of-plane magnetic patterning on austenitic stainless steels using plasma nitriding. Applied Physics Letters, 2010, 96, 242509.	1.5	9
85	Magnetic Measurements as a Sensitive Tool for Studying Dehydrogenation Processes in Hydrogen Storage Materials. Journal of Physical Chemistry C, 2010, 114, 16818-16822.	1.5	3
86	Size-Dependent Passivation Shell and Magnetic Properties in Antiferromagnetic/Ferrimagnetic Core/Shell MnO Nanoparticles. Journal of the American Chemical Society, 2010, 132, 9398-9407.	6.6	106
87	Continuously graded anisotropy in single (Fe ₅₃ Pt ₄₇) _{100-x} Cu _x films. Applied Physics Letters, 2010, 97, .	1.5	53
88	First-order reversal curve analysis of graded anisotropy FePtCu films. Applied Physics Letters, 2010, 97, 202501.	1.5	32
89	Pseudo Spin Valves Using a (111)-Textured DO_{22} Mn _{2.3-2.4} Ga Fixed Layer. IEEE Magnetics Letters, 2010, 1, 2500104-2500104.	0.6	14
90	Direct Magnetic Patterning due to the Generation of Ferromagnetism by Selective Ion Irradiation of Paramagnetic FeAl Alloys. Small, 2009, 5, 229-234.	5.2	71

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91	Magnetic Proximity Effect Features in Antiferromagnetic/Ferrimagnetic Core-Shell Nanoparticles. <i>Physical Review Letters</i> , 2009, 102, 247201.	2.9	85
92	Emergence of noncollinear anisotropies from interfacial magnetic frustration in exchange-bias systems. <i>Physical Review B</i> , 2009, 80, .	1.1	111
93	Nonzero orbital moment in high coercivity μ low-temperature collapse of the magnetocrystalline anisotropy. <i>Physical Review B</i> , 2009, 79, .	1.1	105
94	Publisher's Note: Magnetization reversal in circularly exchange-biased ferromagnetic disks [Phys. Rev. B79, 014436 (2009)]. <i>Physical Review B</i> , 2009, 79, .	1.1	0
95	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> , 2009, 106, 053909.	1.1	24
96	Highly asymmetric magnetic behavior in exchange biased systems induced by noncollinear field cooling. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	56
97	Controlled generation of ferromagnetic martensite from paramagnetic austenite in AISI 316L austenitic stainless steel. <i>Journal of Materials Research</i> , 2009, 24, 565-573.	1.2	16
98	Direct evidence of imprinted vortex states in the antiferromagnet of exchange biased microdisks. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	24
99	Exchange Bias in (111) -Oriented FePt-Based Pseudo Spin Valves. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 3881-3884.	1.2	12
100	Assessment of catalyst particle removal in multi-wall carbon nanotubes by highly sensitive magnetic measurements. <i>Carbon</i> , 2009, 47, 758-763.	5.4	10
101	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> , 2009, 95, .	1.5	30
102	Discrimination between coupling and anisotropy fields in exchange-biased bilayers. <i>Journal of Applied Physics</i> , 2009, 105, 053903.	1.1	12
103	Magnetization reversal in circularly exchange-biased ferromagnetic disks. <i>Physical Review B</i> , 2009, 79, .	1.1	32
104	Steam Purification for the Removal of Graphitic Shells Coating Catalytic Particles and the Shortening of Single-Walled Carbon Nanotubes. <i>Small</i> , 2008, 4, 1501-1506.	5.2	76
105	Cold Consolidation of Metal-Ceramic Nanocomposite Powders with Large Ceramic Fractions. <i>Advanced Functional Materials</i> , 2008, 18, 3293-3298.	7.8	31
106	Enhanced exchange bias effects in a nanopatterned system consisting of two perpendicularly coupled ferromagnets. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	15
107	Cubic versus Spherical Magnetic Nanoparticles: The Role of Surface Anisotropy. <i>Journal of the American Chemical Society</i> , 2008, 130, 13234-13239.	6.6	226
108	Exchange-Biased Magnetic Vortices. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 1968-1973.	1.2	12

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109	Patterning of magnetic structures on austenitic stainless steel by local ion beam nitriding. Acta Materialia, 2008, 56, 4570-4576.	3.8	17
110	Two-fold origin of the deformation-induced ferromagnetism in bulk Fe ₆₀ Al ₄₀ (at.%) alloys. New Journal of Physics, 2008, 10, 103030.	1.2	25
111	A Numerical Algorithm for Magneto hydrodynamics of Ablated Materials. Journal of Nanoscience and Nanotechnology, 2008, 8, 3674-3685.	0.9	11
112	Ion mass dependence of irradiation-induced local creation of ferromagnetism in Fe_{60} . Physical Review B, 2008, 77, .	1.1	40
113	Direct measurement of depth-dependent Fe spin structure during magnetization reversal in MnF_2 bilayers. Physical Review B, 2008, 78, .	1.1	23
114	Tailoring the magnetization reversal of elliptical dots using exchange bias (invited). Journal of Applied Physics, 2008, 103, 07C109.	1.1	12
115	Strong temperature dependence of antiferromagnetic coupling in CoFeB/Ru/CoFeB. Europhysics Letters, 2007, 78, 67002.	0.7	11
116	Magnetic Instability Regions in Patterned Structures: Influence of Element Shape on Magnetization Reversal Dynamics. Physical Review Letters, 2007, 98, 147202.	2.9	20
117	Microstructural evolution during solid-state sintering of ball-milled nanocomposite WC [~] 10 mass% Co powders. Nanotechnology, 2007, 18, 185609.	1.3	8
118	Tailoring deformation-induced effects in Co powders by milling them with Al_2O_3 . Journal of Materials Research, 2007, 22, 2998-3005.	1.2	5
119	Cold compaction of metal [~] ceramic (ferromagnetic [~] antiferromagnetic) composites using high pressure torsion. Journal of Alloys and Compounds, 2007, 434-435, 505-508.	2.8	40
120	Reversible post-synthesis tuning of the superparamagnetic blocking temperature of Fe_3O_4 nanoparticles by adsorption and desorption of Co(ii) ions. Journal of Materials Chemistry, 2007, 17, 322-328.	6.7	43
121	Enhanced Coercivity in Co-Rich Near-Stoichiometric $\text{Co}_x\text{Fe}_{3-x}\text{O}_4$ Nanoparticles Prepared in Large Batches. Chemistry of Materials, 2007, 19, 4957-4963.	3.2	43
122	Synthesis and Size-Dependent Exchange Bias in Inverted Core [~] Shell MnO Mn ₃ O ₄ Nanoparticles. Journal of the American Chemical Society, 2007, 129, 9102-9108.	6.6	261
123	Mössbauer spectroscopical investigation of the exchange biased Fe/MnF ₂ interface. Hyperfine Interactions, 2007, 169, 1371-1377.	0.2	11
124	Shell-Driven Magnetic Stability in Core-Shell Nanoparticles. Physical Review Letters, 2006, 97, 157203.	2.9	195
125	Magnetic order in an MnF ₂ epitaxial layer with the orthorhombic structure. JETP Letters, 2006, 83, 152-155.	0.4	8
126	Iron filled single-wall carbon nanotubes [~] A novel ferromagnetic medium. Chemical Physics Letters, 2006, 421, 129-133.	1.2	130

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127	A new approach to increase the Curie temperature of Fe-Mo double perovskites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006, 126, 139-142.	1.7	15
128	Spin polarized itinerant electrons in Ca ₂ FeMoO ₆ double perovskites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006, 126, 279-282.	1.7	9
129	High- and Low-Temperature Crystal and Magnetic Structures of μ -Fe ₂ O ₃ and Their Correlation to Its Magnetic Properties. <i>Chemistry of Materials</i> , 2006, 18, 3889-3897.	3.2	150
130	Exchange Bias in Ferromagnetic Nanoparticles Embedded in an Antiferromagnetic Matrix. <i>ChemInform</i> , 2006, 37, no.	0.1	1
131	Direct Synthesis of Isolated L10 FePt Nanoparticles in a Robust TiO ₂ Matrix via a Combined Sol-Gel/Pyrolysis Route. <i>Advanced Materials</i> , 2006, 18, 466-470.	11.1	33
132	Periodic Arrays of Micrometer and Sub-micrometer Magnetic Structures Prepared by Nanoindentation of a Nonmagnetic Intermetallic Compound. <i>Advanced Materials</i> , 2006, 18, 1717-1720.	11.1	30
133	Imprinting Vortices into Antiferromagnets. <i>Physical Review Letters</i> , 2006, 97, 067201.	2.9	51
134	Controlling magnetic vortices through exchange bias. , 2006, , .		1
135	Selective generation of local ferromagnetism in austenitic stainless steel using nanoindentation. <i>Applied Physics Letters</i> , 2006, 89, 032509.	1.5	28
136	Volume expansion contribution to the magnetism of atomically disordered intermetallic alloys. <i>Physical Review B</i> , 2006, 74, .	1.1	59
137	Controlling magnetic vortices through exchange bias. <i>Applied Physics Letters</i> , 2006, 88, 042502.	1.5	22
138	Magneto-optical study of magnetization reversal asymmetry in exchange bias. <i>Applied Physics Letters</i> , 2006, 89, 202512.	1.5	36
139	Exploiting exchange bias length scales to fully tailor double-shifted hysteresis loops. , 2006, , .		0
140	Mössbauer spectroscopical investigation of the exchange biased Fe/MnF ₂ interface. , 2006, , 1371-1377.		1
141	Exchange bias in nanostructures. <i>Physics Reports</i> , 2005, 422, 65-117.	10.3	1,722
142	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> , 2005, 294, 111-116.	1.0	27
143	Exploiting Length Scales of Exchange-Bias Systems to Fully Tailor Double-Shifted Hysteresis Loops. <i>Advanced Materials</i> , 2005, 17, 2978-2983.	11.1	102
144	Using exchange bias to extend the temperature range of square loop behavior in [Pt-Co] multilayers with perpendicular anisotropy. <i>Applied Physics Letters</i> , 2005, 87, 242504.	1.5	16

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145	Exchange bias in antiferromagnetic-ferromagnetic-antiferromagnetic structures with out-of-plane magnetization. <i>Physical Review B</i> , 2005, 72, .	1.1	29
146	Magnetization Reversal in Submicron Disks: Exchange Biased Vortices. <i>Physical Review Letters</i> , 2005, 95, 067201.	2.9	61
147	Exchange bias in ferromagnetic nanoparticles embedded in an antiferromagnetic matrix. <i>International Journal of Nanotechnology</i> , 2005, 2, 23.	0.1	77
148	Increasing the Curie temperature of Ca ₂ FeMoO ₆ double perovskite by introducing near-neighbour antiferromagnetic interactions. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 8037-8047.	0.7	17
149	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> , 2005, 17, 1829-1834.	3.2	116
150	Large coercivity and low-temperature magnetic reorientation in $\mu\text{-Fe}_2\text{O}_3$ nanoparticles. <i>Journal of Applied Physics</i> , 2005, 98, 044307.	1.1	103
151	Origin of the Asymmetric Magnetization Reversal Behavior in Exchange-Biased Systems: Competing Anisotropies. <i>Physical Review Letters</i> , 2005, 95, 057204.	2.9	255
152	Enhanced ferromagnetic interactions in electron doped Nd _x Sr _{2-x} FeMoO ₆ double perovskites. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 3173-3182.	0.7	44
153	Changes in ferromagnetic spin structure induced by exchange bias in Fe/MnF ₂ films. <i>Physical Review B</i> , 2004, 70, .	1.1	38
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