

Robert C Woodward

List of Publications by Year in descending order

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74
papers

2,493
citations

201658

27
h-index

197805

49
g-index

75
all docs

75
docs citations

75
times ranked

3844
citing authors

#	ARTICLE	IF	CITATIONS
1	The Effect of Silica Shell Thickness on Magnetic and Proton Relaxometric Properties: Fe ₃ O ₄ @mSiO ₂ Nanoparticles. IEEE Transactions on Magnetics, 2022, 58, 1-7.	2.1	0
2	Crystallization of bismuth iron garnet thin films using capacitively coupled oxygen plasmas. Journal of Applied Physics, 2020, 127, 043302.	2.5	4
3	Direct correlation of PNIPAM thermal transition and magnetic resonance relaxation of iron oxide nanoparticles. Materials Chemistry Frontiers, 2017, 1, 2335-2340.	5.9	23
4	A simple procedure for the production of large ferromagnetic cobalt nanoparticles. Dalton Transactions, 2016, 45, 11983-11989.	3.3	9
5	Dose-Dependent Therapeutic Distinction between Active and Passive Targeting Revealed Using Transferrin-Coated PGMA Nanoparticles. Small, 2016, 12, 351-359.	10.0	51
6	Resonance-Based Detection of Magnetic Nanoparticles and Microbeads Using Nanopatterned Ferromagnets. Physical Review Applied, 2016, 6, .	3.8	18
7	Investigation of the structure and magnetism in lanthanide β^2 -triketonate tetranuclear assemblies. Journal of Coordination Chemistry, 2016, 69, 1852-1863.	2.2	2
8	Functional Reactive Polymer Electrospun Matrix. ACS Applied Materials & Interfaces, 2016, 8, 4934-4939.	8.0	24
9	Preparation and Characterization of Cerium Substituted Bismuth Dysprosium Iron Garnets for Magneto-Optic Applications. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	4
10	Gametocyte Clearance Kinetics Determined by Quantitative Magnetic Fractionation in Melanesian Children with Uncomplicated Malaria Treated with Artemisinin Combination Therapy. Antimicrobial Agents and Chemotherapy, 2015, 59, 4489-4496.	3.2	17
11	Sensing magnetic nanoparticles using nano-confined ferromagnetic resonances in a magnonic crystal. Applied Physics Letters, 2015, 106, .	3.3	44
12	The affinity of magnetic microspheres for Schistosoma eggs. International Journal for Parasitology, 2015, 45, 43-50.	3.1	18
13	Issues in source calibration for biased target ion beam deposition. , 2014, , .		0
14	Magnetic Studies of Metal Ion Coordination Clusters Encapsulated with Thiacalixarene. Australian Journal of Chemistry, 2014, 67, 1588.	0.9	5
15	The influence of NaYF ₄ :Yb,Er size/phase on the multimodality of co-encapsulated magnetic photon-upconverting polymeric nanoparticles. Dalton Transactions, 2014, 43, 16780-16787.	3.3	15
16	Characterization of mechanical, optical and structural properties of bismuth oxide thin films as a write-once medium for blue laser recording. Materials Research Society Symposia Proceedings, 2014, 1633, 87-92.	0.1	1
17	Labeling of cancer cells with magnetic nanoparticles for magnetic resonance imaging. Magnetic Resonance in Medicine, 2014, 71, 1896-1905.	3.0	13
18	Variability and consistency in lung inflammatory responses to particles with a geogenic origin. Respiriology, 2014, 19, 58-66.	2.3	32

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19	Investigation of Cerium-Substituted Europium Iron Garnets Deposited by Biased Target Ion Beam Deposition. IEEE Transactions on Magnetics, 2014, 50, 1-7.	2.1	13
20	Lanthanoid "Bottlebrush" Clusters: Remarkably Elongated Metal-Oxo Core Structures with Controllable Lengths. Journal of the American Chemical Society, 2014, 136, 15122-15125.	13.7	48
21	Comparison of three methods for detection of gametocytes in Melanesian children treated for uncomplicated malaria. Malaria Journal, 2014, 13, 319.	2.3	15
22	Toward Design of Magnetic Nanoparticle Clusters Stabilized by Biocompatible Diblock Copolymers for T ₂ -Weighted MRI Contrast. Langmuir, 2014, 30, 1580-1587.	3.5	59
23	The effect of magnetically induced linear aggregates on proton transverse relaxation rates of aqueous suspensions of polymer coated magnetic nanoparticles. Nanoscale, 2013, 5, 2152-2163.	5.6	53
24	Magnetic field directed fabrication of conducting polymer nanowires. Chemical Communications, 2013, 49, 7138.	4.1	8
25	Enhancement of the Cell Specific Proton Relaxivities of Human Red Blood Cells via Loading With Gadoteric Acid. IEEE Transactions on Magnetics, 2013, 49, 414-420.	2.1	1
26	The Iron Distribution and Magnetic Properties of Schistosome Eggshells: Implications for Improved Diagnostics. PLoS Neglected Tropical Diseases, 2013, 7, e2219.	3.0	22
27	Plasma annealing as an effective method for the crystallization of bismuth iron garnet films. , 2012, , .		0
28	Control of chemical composition of rare-earth substituted iron garnets using biased target deposition. , 2012, , .		1
29	Insight into Serum Protein Interactions with Functionalized Magnetic Nanoparticles in Biological Media. Langmuir, 2012, 28, 4346-4356.	3.5	59
30	Poly(N-isopropylacrylamide)-Coated Superparamagnetic Iron Oxide Nanoparticles: Relaxometric and Fluorescence Behavior Correlate to Temperature-Dependent Aggregation. Chemistry of Materials, 2011, 23, 3348-3356.	6.7	57
31	The effect of polymer coatings on proton transverse relaxivities of aqueous suspensions of magnetic nanoparticles. Nanotechnology, 2011, 22, 325702.	2.6	37
32	Metallurgical origin of the effect of Fe doping on the martensitic and magnetic transformation behaviours of Ni ₅₀ Mn _{40-x} Sn ₁₀ Fe _x magnetic shape memory alloys. Intermetallics, 2011, 19, 445-452.	3.9	42
33	Synthesis of "ready-to-adsorb"™ polymeric nanoshells for magnetic iron oxide nanoparticles via atom transfer radical polymerization. Polymer, 2011, 52, 1356-1366.	3.8	28
34	Experimental validation of proton transverse relaxivity models for superparamagnetic nanoparticle MRI contrast agents. Nanotechnology, 2010, 21, 035103.	2.6	81
35	Nanostructure of PEO-polyurethane-PEO triblock copolymer micelles in water. Journal of Colloid and Interface Science, 2010, 344, 81-89.	9.4	10
36	Deformation of a hydrophobic ferrofluid droplet suspended in a viscous medium under uniform magnetic fields. Journal of Fluid Mechanics, 2010, 663, 358-384.	3.4	160

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37	Manufacture and Testing of a High Field Gradient Magnetic Fractionation System for Quantitative Detection of Plasmodium falciparum Gametocytes. , 2010, , .		2
38	Loading Erythrocytes with Maghemite Nanoparticles via Osmotic Pressure Induced Cell Membrane Pores. , 2010, , .		1
39	Anti-fouling magnetic nanoparticles for siRNA delivery. Journal of Materials Chemistry, 2010, 20, 255-265.	6.7	123
40	Di[2,6-bis(5-phenylpyrazol-3-yl)pyridine]Co(II): an old coordination mode for a novel supramolecular assembly. CrystEngComm, 2010, 12, 3422.	2.6	10
41	Multifunctional hybrid materials based on transparent poly(methyl methacrylate) reinforced by lanthanoid hydroxo clusters. Dalton Transactions, 2010, 39, 11227.	3.3	22
42	Lossless Inductor Current Sensing Method With Improved Frequency Response. IEEE Transactions on Power Electronics, 2009, 24, 1218-1222.	7.9	11
43	Evolution of Morphology and Magnetic Properties in Silica/Maghemite Nanocomposites. Journal of Physical Chemistry C, 2009, 113, 12040-12047.	3.1	37
44	Current Sensing Techniques: A Review. IEEE Sensors Journal, 2009, 9, 354-376.	4.7	561
45	Investigation Into Static and Dynamic Performance of the Copper Trace Current Sense Method. IEEE Sensors Journal, 2009, 9, 782-792.	4.7	20
46	Investigation of field-induced ferromagnetism in Pd-Ni-Fe-P metallic glass by x-ray magnetic circular dichroism. Applied Physics Letters, 2009, 94, 022502.	3.3	1
47	Stability of Polydimethylsiloxane-Magnetite Nanoparticle Dispersions Against Flocculation: Interparticle Interactions of Polydisperse Materials. Langmuir, 2008, 24, 5060-5069.	3.5	56
48	Size Analysis of PDMS-Magnetite Nanoparticle Complexes: Experiment and Theory. Chemistry of Materials, 2008, 20, 2184-2191.	6.7	47
49	Theoretical and practical analysis of a current sensing principle that exploits the resistance of the copper trace. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	3
50	Insight into microstructural and magnetic properties of flame-made γ -Fe ₂ O ₃ nanoparticles. Journal of Materials Chemistry, 2007, 17, 4876.	6.7	99
51	Interpretation of magnetisation dynamics using inductive magnetometry in thin films. Surface Science, 2007, 601, 5766-5769.	1.9	2
52	Neutron depolarization studies of Pd-Ni-Fe-P alloy. Physica B: Condensed Matter, 2007, 397, 30-32.	2.7	2
53	A comparison of methods for the measurement of the particle-size distribution of magnetic nanoparticles. Journal of Applied Crystallography, 2007, 40, s495-s500.	4.5	50
54	Field-induced motion of ferrofluids through immiscible viscous media: Testbed for restorative treatment of retinal detachment. Journal of Magnetism and Magnetic Materials, 2007, 311, 347-353.	2.3	52

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55	Flame-Sprayed Superparamagnetic Bare and Silica-Coated Maghemite Nanoparticles: Synthesis, Characterization, and Protein Adsorption/Desorption. <i>Chemistry of Materials</i> , 2006, 18, 6403-6413.	6.7	123
56	Thermally induced fcc to hcp martensitic transformation in Co-Ni. <i>Acta Materialia</i> , 2005, 53, 3625-3634.	7.9	40
57	Apparent magnetic energy-barrier distribution in FePt nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 295, 174-176.	2.3	7
58	Optic and acoustic modes measured in a cobalt/Permalloy exchange spring bilayer using inductive magnetometry. <i>Journal of Applied Physics</i> , 2005, 97, 10A707.	2.5	12
59	Experimental determination of energy barrier distributions of the energy barriers in spin glasses. <i>Journal of Applied Physics</i> , 2004, 95, 6983-6985.	2.5	4
60	Effect of reversal field on domain structures in TbFeCo. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E531-E532.	2.3	1
61	Variation of the magnetic domain structure with reversal field (invited). <i>Journal of Applied Physics</i> , 2003, 93, 6567-6571.	2.5	21
62	Coercivity, time dependence and reversible magnetization in Nd rich Nd-Fe-B alloys. <i>IEEE Transactions on Magnetics</i> , 2001, 37, 2493-2496.	2.1	3
63	Reversible magnetization behavior in $\text{Sm}_2(\text{Co}, \text{Fe}, \text{Cu}, \text{Zr})_{17}$. <i>Journal of Applied Physics</i> , 1999, 85, 5675-5677.	2.1	21
64	Evidence for the presence of a soft magnetic layer on the surface of die upset melt quenched Nd-Fe-B. <i>IEEE Transactions on Magnetics</i> , 1999, 35, 3280-3282.	2.1	0
65	Magnetisation of thin films under oblique field conditions. <i>Journal of Magnetism and Magnetic Materials</i> , 1998, 177-181, 1281-1282.	2.3	1
66	The use of MFM for investigating domain structures in modern permanent magnet materials. <i>Journal of Magnetism and Magnetic Materials</i> , 1998, 190, 28-41.	2.3	65
67	Evolution of magnetic microstructure in high-coercivity permanent magnets imaged with magnetic force microscopy. <i>Journal of Applied Physics</i> , 1997, 81, 4438-4440.	2.5	11
68	Magnetic Force Microscopy of Sintered NdFeB. , 1997, , 215-219.		0
69	Magnetic force microscopy images of high-coercivity permanent magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 1996, 159, 109-118.	2.3	35
70	Magnetic properties of novel resin-bonded exchange coupled rare-earth magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 1995, 147, 360-366.	2.3	6
71	A sphere forming and polishing machine. <i>Measurement Science and Technology</i> , 1994, 5, 779-781.	2.6	10
72	Investigation of interaction mechanisms in melt quenched NdFeB. <i>Journal of Applied Physics</i> , 1994, 75, 6271-6273.	2.5	28

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73	Domain structures of dieâ€upset meltâ€spun NdFeB. Applied Physics Letters, 1994, 65, 910-912.	3.3	28
74	Magnetocaloric dependence of magnetic viscosity measurements in NdFeB. Journal of Applied Physics, 1994, 75, 6634-6636.	2.5	3