Kalliopi N Trohidou

List of Publications by Year
in descending order

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95 papers	3,598 citations	147566 31 h-index	138251 58 g-index
97 all docs	97 docs citations	97 times ranked	4119 citing authors

#	Article	IF	Citations
1	Magnetic and structural properties of isolated and assembled clusters. Surface Science Reports, 2005, 56, 189-275.	3.8	384
2	Magnetic properties of dipolar interacting single-domain particles. Physical Review B, 1998, 58, 12169-12177.	1.1	256
3	Cubic versus Spherical Magnetic Nanoparticles: The Role of Surface Anisotropy. Journal of the American Chemical Society, 2008, 130, 13234-13239.	6.6	226
4	Optical-Vibrational Properties of the Cs₂SnX₆ (X = Cl, Br, I) Defect Perovskites and Hole-Transport Efficiency in Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2016, 120, 11777-11785.	1.5	222
5	Magnetic behavior of nanostructured films assembled from preformed Fe clusters embedded in Ag. Physical Review B, 2002, 66, .	1.1	174
6	Robust antiferromagnetic coupling in hard-soft bi-magnetic core/shell nanoparticles. Nature Communications, 2013, 4, 2960.	5.8	160
7	Surface spin-glass freezing in interacting coreâ€“shell NiO nanoparticles. Nanotechnology, 2008, 19, 185702.	1.3	154
8	Numerical study of the exchange-bias effect in nanoparticles with ferromagnetic core/ferrimagnetic disordered shell morphology. Physical Review B, 2009, 79, .	1.1	131
9	The behaviour of nanostructured magnetic materials produced by depositing gas-phase nanoparticles. Journal Physics D: Applied Physics, 2005, 38, R357-R379.	1.3	105
10	Numerical study of the exchange bias effects in magnetic nanoparticles with core/shell morphology. Physical Review B, 2005, 71, .	1.1	86
11	Assembly-mediated interplay of dipolar interactions and surface spin disorder in colloidal maghemite nanoclusters. Nanoscale, 2014, 6, 3764-3776.	2.8	79
12	Competition between dipolar and exchange interparticle interactions in magnetic nanoparticle films. Journal of Magnetism and Magnetic Materials, 2003, 262, 107-110.	1.0	78
13	Strongly exchange coupled inverse ferrimagnetic soft/hard, MnxFe3â^'xO4/FexMn3â^'xO4, core/shell heterostructured nanoparticles. Nanoscale, 2012, 4, 5138.	2.8	76
14	Origin of the large dispersion of magnetic properties in nanostructured oxides: Fe_xO/Fe₃O₄nanoparticles as a case study. Nanoscale, 2015, 7, 3002-3015.	2.8	76
15	Enhanced Magnetic Properties in Antiferromagnetic-Core/Ferrimagnetic-Shell Nanoparticles. Scientific Reports, 2015, 5, 9609.	1.6	73
16	Remanence Plots as a Probe of Spin Disorder in Magnetic Nanoparticles. Chemistry of Materials, 2017, 29, 8258-8268.	3.2	61
17	Fe-Doping-Induced Magnetism in Nano-Hydroxyapatites. Inorganic Chemistry, 2017, 56, 4446-4458.	1.9	60
18	Dynamical and thermal effects in nanoparticle systems driven by a rotating magnetic field. Physical Review B, 2006, 74, .	1.1	57

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19	Magnetic properties of self-assembled interacting nanoparticles. Applied Physics Letters, 2002, 81, 4574-4576.	1.5	54
20	Phase diagram and critical behavior of the random ferromagnet Ga<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:mathMn<mml xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>N. Physical Review B, 2013, 88, .	1.1	53
21	Interplay of dipolar interactions and grain-size distribution in the giant magnetoresistance of granular metals. Physical Review B, 2000, 62, 3941-3951.	1.1	50
22	Mixed-halide Cs2SnI3Br3 perovskite as low resistance hole-transporting material in dye-sensitized solar cells. Electrochimica Acta, 2015, 184, 466-474.	2.6	49
23	Origin of low-temperature magnetic ordering in Ga<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:mathMn<mml xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>N. Physical Review B, 2012, 85, .	1.1	48
24	Mesoscopic Model for the Simulation of Large Arrays of Biâ€Magnetic Core/Shell Nanoparticles. Advanced Materials, 2012, 24, 4331-4336.	11.1	41
25	Susceptibility losses in heating of magnetic core/shell nanoparticles for hyperthermia: a Monte Carlo study of shape and size effects. Nanoscale, 2015, 7, 7753-7762.	2.8	40
26	Magnetism of Nanoparticles: Effect of the Organic Coating. Nanomaterials, 2021, 11, 1787.	1.9	38
27	Memory effects on the magnetic behavior of assemblies of nanoparticles with ferromagnetic core/antiferromagnetic shell morphology. Physical Review B, 2013, 88, .	1.1	37
28	Surface effects on the magnetic behavior of antiferromagnetic particles. Journal of Applied Physics, 1998, 84, 2795-2800.	1.1	35
29	Optimising the magnetic performance of Co ferrite nanoparticles via organic ligand capping. Nanoscale, 2018, 10, 21244-21253.	2.8	35
30	Magnetic relaxation in finite two-dimensional nanoparticle ensembles. Physical Review B, 2003, 67, .	1.1	33
31	Glassy dynamics in the exchange bias properties of the iron/iron oxide nanogranular system. Physical Review B, 2006, 73, .	1.1	33
32	Simultaneous Individual and Dipolar Collective Properties in Binary Assemblies of Magnetic Nanoparticles. Chemistry of Materials, 2020, 32, 969-981.	3.2	26
33	Monte Carlo Simulations of Ferromagnetism inpâ^'Cd1â^'xMnxTeQuantum Wells. Physical Review Letters, 2005, 94, 127201.	2.9	24
34	Exchange bias in disordered granular systems. Journal of Physics Condensed Matter, 2007, 19, 225007.	0.7	24
35	A MONTE CARLO STUDY OF THE EXCHANGE BIAS EFFECTS IN MAGNETIC NANOPARTICLES WITH FERROMAGNETIC CORE/ANTIFERROMAGNETIC SHELL MORPHOLOGY. Modern Physics Letters B, 2007, 21, 1169-1177.	1.0	22
36	Monte Carlo study of the exchange bias and the training effect in nanoparticles with core/shell morphology. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1865-1871.	0.8	22

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37	Fluctuation theory of magnetic relaxation for two-dimensional ensembles of dipolar interacting nanoparticles. Physical Review B, 2001, 64, .	1.1	21
38	Aggregation and segregation in a mixture of magnetic and nonmagnetic particles. Physical Review B, 1995, 51, 11521-11526.	1.1	20
39	Interface exchange coupling in Co nanoparticles dispersed in a Mn matrix. Journal of Physics Condensed Matter, 2010, 22, 436005.	0.7	20
40	Monte Carlo calculations on antiferromagnetic Ising particles. Physical Review B, 1990, 41, 9345-9351.	1.1	19
41	Correlation between tunneling magnetoresistance and magnetization in dipolar-coupled nanoparticle arrays. Physical Review B, 2005, 71, .	1.1	19
42	Robust Ferromagnetism of Chromium Nanoparticles Formed in Superfluid Helium. Advanced Materials, 2017, 29, 1604277.	11.1	19
43	Calculation of the high-energy spin-wave spectrum of hcp cobalt. Physical Review Letters, 1991, 67, 2561-2564.	2.9	17
44	Ferromagnetic properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math>-(Cd,Mn)Te quantum wells: Interpretation of magneto-optical measurements by Monte Carlo simulations. Physical Review B, 2009, 79, .	1.1	17
45	Magnetization reversal mechanisms in small antiferromagnetic particles. Journal of Applied Physics, 1999, 85, 1050-1057.	1.1	16
46	Crossover From Individual to Collective Magnetism in Dense Nanoparticle Systems: Local Anisotropy Versus Dipolar Interactions. Small, 2022, 18, .	5.2	16
47	Surface effects on the magnetic behaviour of nanoparticles with core/shell morphology. Journal Physics D: Applied Physics, 2008, 41, 134006.	1.3	15
48	Static and dynamic susceptibilities of ferromagnets calculated with spin-wave theory including dipolar forces. Journal of Physics Condensed Matter, 1991, 3, 1827-1840.	0.7	14
49	Effect of surface anisotropy on the coercive field of small magnetic particles. Journal of Applied Physics, 1997, 81, 4739-4740.	1.1	14
50	Magnetic behavior of dense nanoparticle assemblies: Interplay of interparticle interactions and particle system morphology. Physical Review B, 2012, 86, .	1.1	14
51	Superspin glass state in a diluted nanoparticle system stabilized by interparticle interactions mediated by an antiferromagnetic matrix. Nanotechnology, 2017, 28, 035701.	1.3	14
52	Monte Carlo Studies of Surface and Interface Effects in Magnetic Nanoparticles. , 2005, , 45-74.		13
53	Vacancy-Driven Noncubic Local Structure and Magnetic Anisotropy Tailoring in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Fe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mtext>â^’</mml:mtext></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi>Fe</mml:mi></mml:mrow><mml:mrow><mml:mi mathvariant="normal">O</mml:mi>. Physical Review X, 2019, 9, .	2.8	13
54	Interplay between inter- and intraparticle interactions in bi-magnetic core/shell nanoparticles. Nanoscale Advances, 2021, 3, 6912-6924.	2.2	13

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55	Muon spin relaxation in ferromagnets. I. Spin-wave fluctuations. Journal of Physics Condensed Matter, 1992, 4, 2043-2060.	0.7	12
56	Memory Effects in Ultra-Small CoFe$_{2}$O$_{4}$ Nanoparticles. IEEE Transactions on Magnetics, 2012, 48, 1305-1308.	1.2	12
57	Towards high-performance electrochemical thermal energy harvester based on ferrofluids. Applied Materials Today, 2020, 19, 100587.	2.3	11
58	Muon spin relaxation in ferromagnets. II. Critical and paramagnetic magnetization fluctuations. Journal of Physics Condensed Matter, 1992, 4, 2061-2071.	0.7	10
59	Three dimensional quantitative characterization of magnetite nanoparticles embedded in mesoporous silicon: local curvature, demagnetizing factors and magnetic Monte Carlo simulations. Nanoscale, 2013, 5, 11944.	2.8	9
60	Size effects on the magnetic behavior of Î³-Fe2O3 core/SiO2 shell nanoparticle assemblies. Journal of Magnetism and Magnetic Materials, 2021, 522, 167570.	1.0	9
61	Effect of organic coating on the charge distribution of CoFe2O4 nanoparticles. Journal of Alloys and Compounds, 2019, 796, 9-12.	2.8	8
62	Bad neighbour, good neighbour: how magnetic dipole interactions between soft and hard ferrimagnetic nanoparticles affect macroscopic magnetic properties in ferrofluids. Nanoscale, 2020, 12, 11222-11231.	2.8	8
63	Monte Carlo simulations on the coercive behaviour of oxide coated ferromagnetic particles. Journal of Physics Condensed Matter, 1998, 10, 7475-7483.	0.7	7
64	Monte Carlo study of the transverse susceptibility in ordered arrays of magnetic nanoparticles. Physical Review B, 2006, 74, .	1.1	7
65	Effect of albumin mediated clustering on the magnetic behavior of MnFe2O4 nanoparticles: experimental and theoretical modeling study. Nanotechnology, 2020, 31, 025707.	1.3	7
66	Memory and superposition in a superspin glass. Scientific Reports, 2021, 11, 7743.	1.6	7
67	Dipolar ferromagnetism in ensembles of ellipsoidal nanoparticles. Journal of Physics Condensed Matter, 2000, 12, 7111-7115.	0.7	6
68	Scaling behavior of the giant magnetoresistance of magnetic aggregates. Physical Review B, 2001, 63, .	1.1	6
69	Interplay between particle anisotropy and exchange interaction in Fe nanoparticle films. Physical Review B, 2011, 83, .	1.1	6
70	Dynamics in Superspin Glass Systems. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	6
71	On the calculation of the dynamic structure factor from band structure models: application to iron. Journal of Physics C: Solid State Physics, 1987, 20, 3897-3910.	1.5	5
72	Spin and orbital contributions to the dynamical structure factors of paramagnetic transition metals. Physical Review B, 1988, 37, 8154-8166.	1.1	5

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73	Neutron scattering of electrons in simple metals: a band structure calculation for sodium. Journal of Physics C: Solid State Physics, 1987, 20, 3887-3896.	1.5	4
74	Scaling laws in magneto-optical properties of aggregated ferrofluids. Physical Review E, 2001, 64, 031401.	0.8	4
75	Tailoring defects and nanocrystal transformation for optimal heating power in bimagnetic CoyFe1-yO@CoxFe3-xO4 particles. Nanoscale, 2021, , .	2.8	4
76	Magnetic neutron-electron scattering; use of thef-sum rule to assess the effect of electron correlations, lattice interaction and magnetic field. European Physical Journal B, 1986, 62, 207-213.	0.6	3
77	Magnetization behaviour of small particle aggregates. Journal of Physics Condensed Matter, 1998, 10, L255-L258.	0.7	3
78	Conditions for optimum giant magnetoresistance in granular metals. Journal of Applied Physics, 2001, 89, 7293-7295.	1.1	3
79	Dipolar interaction effects on the thermally activated magnetic relaxation of two-dimensional nanoparticle ensembles. Applied Physics Letters, 2004, 84, 4672-4674.	1.5	3
80	Stepwise behaviour of magnetization temperature dependence in iron nanoparticle assembled films. Nanotechnology, 2013, 24, 165706.	1.3	3
81	The spectrum of longitudinal spin fluctuations in a ferromagnet including dipolar and Zeeman energies. Journal of Physics Condensed Matter, 1993, 5, 1109-1118.	0.7	2
82	Magnetic behavior of the oxygen deficient perovskite PrBaCuFeO5+y. Journal of Applied Physics, 1997, 81, 5293-5295.	1.1	2
83	Spatial Distribution and Fractal Properties of Aggregating Magnetic and Non-Magnetic Particles. Fractals, 1998, 06, 219-230.	1.8	2
84	Iron-oxide colloidal nanoclusters: from fundamental physical properties to diagnosis and therapy. , 2014, , .		2
85	Increase of the blocking temperature of Feâ€“Ag granular multilayers with increasing number of the layers. Journal of Magnetism and Magnetic Materials, 2016, 401, 386-390.	1.0	2
86	Neutron excitation of landau and collective modes in a magnetized plasma. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1986, 8, 39-51.	0.4	1
87	Critical reflection activation analysis-a new near-surface probe. Journal Physics D: Applied Physics, 1989, 22, 1001-1003.	1.3	1
88	Tunable magnetic properties of cluster assembled films grown from low temperature co-depositions. Journal of Physics Condensed Matter, 2004, 16, S2287-S2297.	0.7	1
89	Magnetism in the interface of Co/CoO. EPJ Web of Conferences, 2014, 75, 03001.	0.1	1
90	How to measure the wavefunction of an adatom: the semiclassical theory of desorbtive scattering. Journal of Physics Condensed Matter, 1989, 1, 9513-9518.	0.7	0

#	Article	IF	Citations
91	Monte Carlo Simulations of Small Interacting Magnetic Particles. , 1997, , 37-44.		0
92	Study of the ground state properties of the perovskites R(Y,â€ŠPr)BaCuT(Fe,â€ŠCo)O5+y within the Hubbard model. Journal of Applied Physics, 2001, 89, 7317-7319.	1.1	0
93	Numerical study of the structure and the magnetic properties of Co clusters on Au surfaces. Physica Status Solidi A, 2004, 201, 3300-3304.	1.7	0
94	Multiscale modeling of magnetic nanoparticle systems. Frontiers of Nanoscience, 2020, 17, 27-39.	0.3	0
95	Application of Multiscale Computational Techniques to the Study of Magnetic Nanoparticle Systems. Lecture Notes in Computer Science, 2020, , 301-311.	1.0	0