Kalliopi N Trohidou

List of Publications by Citations

94 papers	3,072 citations	29 h-index	54 g-index
97 ext. papers	3,312 ext. citations	4.6 avg, IF	4.9 L-index

#	Paper	IF	Citations
94	Magnetic and structural properties of isolated and assembled clusters. *Surface Science Reports*, **2005**, 56, 189-275	12.9	352
93	Magnetic properties of dipolar interacting single-domain particles. *Physical Review B*, **1998**, 58, 12169-12177	3.7	229
92	Cubic versus spherical magnetic nanoparticles: the role of surface anisotropy. *Journal of the American Chemical Society*, **2008**, 130, 13234-9	16.4	196
91	Magnetic behavior of nanostructured films assembled from preformed Fe clusters embedded in Ag. *Physical Review B*, **2002**, 66,	3.3	162
90	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	3.8	161
89	Surface spin-glass freezing in interacting core-shell NiO nanoparticles. *Nanotechnology*, **2008**, 19, 185702	3.4	139
88	Robust antiferromagnetic coupling in hard-soft bi-magnetic core/shell nanoparticles. *Nature Communications*, **2013**, 4, 2960	17.4	132
87	Numerical study of the exchange-bias effect in nanoparticles with ferromagnetic core/ferrimagnetic disordered shell morphology. *Physical Review B*, **2009**, 79,	3.3	119
86	The behaviour of nanostructured magnetic materials produced by depositing gas-phase nanoparticles. *Journal Physics D: Applied Physics*, **2005**, 38, R357-R379	3	97
85	Numerical study of the exchange bias effects in magnetic nanoparticles with core/shell morphology. *Physical Review B*, **2005**, 71,	3.3	78
84	Enhanced magnetic properties in antiferromagnetic-core/ferrimagnetic-shell nanoparticles. *Scientific Reports*, **2015**, 5, 9609	4.9	66
83	Assembly-mediated interplay of dipolar interactions and surface spin disorder in colloidal maghemite nanoclusters. *Nanoscale*, **2014**, 6, 3764-76	7.7	66
82	Strongly exchange coupled inverse ferrimagnetic soft/hard, Mn(x)Fe(3-x)O4/Fe(x)Mn(3-x)O4, core/shell heterostructured nanoparticles. *Nanoscale*, **2012**, 4, 5138-47	7.7	66
81	Competition between dipolar and exchange interparticle interactions in magnetic nanoparticle films. *Journal of Magnetism and Magnetic Materials*, **2003**, 262, 107-110	2.8	66
80	Origin of the large dispersion of magnetic properties in nanostructured oxides: Fe(x)O/Fe3O4 nanoparticles as a case study. *Nanoscale*, **2015**, 7, 3002-15	7.7	63
79	Dynamical and thermal effects in nanoparticle systems driven by a rotating magnetic field. *Physical Review B*, **2006**, 74,	3.3	53
78	Magnetic properties of self-assembled interacting nanoparticles. *Applied Physics Letters*, **2002**, 81, 4574-4576	3.4	51

77	Interplay of dipolar interactions and grain-size distribution in the giant magnetoresistance of granular metals. *Physical Review B*, **2000**, 62, 3941-3951	3.3	49
76	Fe-Doping-Induced Magnetism in Nano-Hydroxyapatites. *Inorganic Chemistry*, **2017**, 56, 4447-4459	5.1	45
75	Remanence Plots as a Probe of Spin Disorder in Magnetic Nanoparticles. *Chemistry of Materials*, **2017**, 29, 8258-8268	9.6	45
74	Phase diagram and critical behavior of the random ferromagnet Ga1MnxN. *Physical Review B*, **2013**, 88,	3.3	44
73	Origin of low-temperature magnetic ordering in Ga1MnxN. *Physical Review B*, **2012**, 85,	3.3	41
72	Mesoscopic model for the simulation of large arrays of bi-magnetic core/shell nanoparticles. *Advanced Materials*, **2012**, 24, 4331-6	24	37
71	Mixed-halide Cs2SnI3Br3 perovskite as low resistance hole-transporting material in dye-sensitized solar cells. *Electrochimica Acta*, **2015**, 184, 466-474	6.7	36
70	Memory effects on the magnetic behavior of assemblies of nanoparticles with ferromagnetic core/antiferromagnetic shell morphology. *Physical Review B*, **2013**, 88,	3.3	33
69	Magnetic relaxation in finite two-dimensional nanoparticle ensembles. *Physical Review B*, **2003**, 67,	3.3	33
68	Surface effects on the magnetic behavior of antiferromagnetic particles. *Journal of Applied Physics*, **1998**, 84, 2795-2800	2.5	33
67	Susceptibility losses in heating of magnetic core/shell nanoparticles for hyperthermia: a Monte Carlo study of shape and size effects. *Nanoscale*, **2015**, 7, 7753-62	7.7	32
66	Glassy dynamics in the exchange bias properties of the iron/iron oxide nanogranular system. *Physical Review B*, **2006**, 73,	3.3	29
65	Optimising the magnetic performance of Co ferrite nanoparticles via organic ligand capping. *Nanoscale*, **2018**, 10, 21244-21253	7.7	24
64	Monte Carlo simulations of ferromagnetism in p-Cd1-xMnxTe quantum wells. *Physical Review Letters*, **2005**, 94, 127201	7.4	23
63	Exchange bias in disordered granular systems. *Journal of Physics Condensed Matter*, **2007**, 19, 225007	1.8	22
62	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	1.6	21
61	Fluctuation theory of magnetic relaxation for two-dimensional ensembles of dipolar interacting nanoparticles. *Physical Review B*, **2001**, 64,	3.3	21
60	Aggregation and segregation in a mixture of magnetic and nonmagnetic particles. *Physical Review B*, **1995**, 51, 11521-11526	3.3	20

59	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	1.6	19
58	Correlation between tunneling magnetoresistance and magnetization in dipolar-coupled nanoparticle arrays. *Physical Review B*, **2005**, 71,	3.3	19
57	Monte Carlo calculations on antiferromagnetic Ising particles. *Physical Review B*, **1990**, 41, 9345-9351	3.3	19
56	Interface exchange coupling in Co nanoparticles dispersed in a Mn matrix. *Journal of Physics Condensed Matter*, **2010**, 22, 436005	1.8	18
55	Ferromagnetic properties of p-(Cd,Mn)Te quantum wells: Interpretation of magneto-optical measurements by Monte Carlo simulations. *Physical Review B*, **2009**, 79,	3.3	16
54	Magnetization reversal mechanisms in small antiferromagnetic particles. *Journal of Applied Physics*, **1999**, 85, 1050-1057	2.5	16
53	Calculation of the high-energy spin-wave spectrum of hcp cobalt. *Physical Review Letters*, **1991**, 67, 2561-2564	7.4	16
52	Effect of surface anisotropy on the coercive field of small magnetic particles. *Journal of Applied Physics*, **1997**, 81, 4739-4740	2.5	14
51	Static and dynamic susceptibilities of ferromagnets calculated with spin-wave theory including dipolar forces. *Journal of Physics Condensed Matter*, **1991**, 3, 1827-1840	1.8	14
50	Simultaneous Individual and Dipolar Collective Properties in Binary Assemblies of Magnetic Nanoparticles. *Chemistry of Materials*, **2020**, 32, 969-981	9.6	13
49	Robust Ferromagnetism of Chromium Nanoparticles Formed in Superfluid Helium. *Advanced Materials*, **2017**, 29, 1604277	24	13
48	Magnetic behavior of dense nanoparticle assemblies: Interplay of interparticle interactions and particle system morphology. *Physical Review B*, **2012**, 86,	3.3	13
47	Surface effects on the magnetic behaviour of nanoparticles with core/shell morphology. *Journal Physics D: Applied Physics*, **2008**, 41, 134006	3	13
46	Memory Effects in Ultra-Small CoFe$_{2}$O $_{4}$ Nanoparticles. *IEEE Transactions on Magnetics*, **2012**, 48, 1305-1308	2	12
45	Muon spin relaxation in ferromagnets. I. Spin-wave fluctuations. *Journal of Physics Condensed Matter*, **1992**, 4, 2043-2060	1.8	11
44	Magnetism of Nanoparticles: Effect of the Organic Coating. *Nanomaterials*, **2021**, 11,	5.4	11
43	Superspin glass state in a diluted nanoparticle system stabilized by interparticle interactions mediated by an antiferromagnetic matrix. *Nanotechnology*, **2017**, 28, 035701	3.4	10
42	Muon spin relaxation in ferromagnets. II. Critical and paramagnetic magnetization fluctuations. *Journal of Physics Condensed Matter*, **1992**, 4, 2061-2071	1.8	10

41	Monte Carlo Studies of Surface and Interface Effects in Magnetic Nanoparticles **2005**, 45-74		9
40	Three dimensional quantitative characterization of magnetite nanoparticles embedded in mesoporous silicon: local curvature, demagnetizing factors and magnetic Monte Carlo simulations. *Nanoscale*, **2013**, 5, 11944-53	7.7	8
39	Monte Carlo study of the transverse susceptibility in ordered arrays of magnetic nanoparticles. *Physical Review B*, **2006**, 74,	3.3	7
38	Scaling behavior of the giant magnetoresistance of magnetic aggregates. *Physical Review B*, **2001**, 63,	3.3	6
37	Vacancy-Driven Noncubic Local Structure and Magnetic Anisotropy Tailoring in FexOFe3O4 Nanocrystals. *Physical Review X*, **2019**, 9,	9.1	6
36	Effect of organic coating on the charge distribution of CoFe2O4 nanoparticles. *Journal of Alloys and Compounds*, **2019**, 796, 9-12	5.7	5
35	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	7.7	5
34	Towards high-performance electrochemical thermal energy harvester based on ferrofluids. *Applied Materials Today*, **2020**, 19, 100587	6.6	5
33	Dynamics in Superspin Glass Systems. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	5
32	Interplay between particle anisotropy and exchange interaction in Fe nanoparticle films. *Physical Review B*, **2011**, 83,	3.3	5
31	Dipolar ferromagnetism in ensembles of ellipsoidal nanoparticles. *Journal of Physics Condensed Matter*, **2000**, 12, 7111-7115	1.8	5
30	Monte Carlo simulations on the coercive behaviour of oxide coated ferromagnetic particles. *Journal of Physics Condensed Matter*, **1998**, 10, 7475-7483	1.8	5
29	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		5
28	Spin and orbital contributions to the dynamical structure factors of paramagnetic transition metals. *Physical Review B*, **1988**, 37, 8154-8166	3.3	5
27	Scaling laws in magneto-optical properties of aggregated ferrofluids. *Physical Review E*, **2001**, 64, 031401	2.4	4
26	Neutron scattering of electrons in simple metals: a band structure calculation for sodium. *Journal of Physics C: Solid State Physics*, **1987**, 20, 3887-3896		4
25	Effect of albumin mediated clustering on the magnetic behavior of MnFeO nanoparticles: experimental and theoretical modeling study. *Nanotechnology*, **2020**, 31, 025707	3.4	4
24	Size effects on the magnetic behavior of Fe2O3 core/SiO2 shell nanoparticle assemblies. *Journal of Magnetism and Magnetic Materials*, **2021**, 522, 167570	2.8	4

23	Stepwise behaviour of magnetization temperature dependence in iron nanoparticle assembled films. *Nanotechnology*, **2013**, 24, 165706	3.4	3
22	Dipolar interaction effects on the thermally activated magnetic relaxation of two-dimensional nanoparticle ensembles. *Applied Physics Letters*, **2004**, 84, 4672-4674	3.4	3
21	Conditions for optimum giant magnetoresistance in granular metals. *Journal of Applied Physics*, **2001**, 89, 7293-7295	2.5	3
20	Magnetization behaviour of small particle aggregates. *Journal of Physics Condensed Matter*, **1998**, 10, L255-L258	1.8	3
19	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	1.2	3
18	Increase of the blocking temperature of Fe□Ag granular multilayers with increasing number of the layers. *Journal of Magnetism and Magnetic Materials*, **2016**, 401, 386-390	2.8	2
17	Magnetic behavior of the oxygen deficient perovskite PrBaCuFeO5+y. *Journal of Applied Physics*, **1997**, 81, 5293-5295	2.5	2
16	Spatial Distribution and Fractal Properties of Aggregating Magnetic and Non-Magnetic Particles. *Fractals*, **1998**, 06, 219-230	3.2	2
15	The spectrum of longitudinal spin fluctuations in a ferromagnet including dipolar and Zeeman energies. *Journal of Physics Condensed Matter*, **1993**, 5, 1109-1118	1.8	2
14	Memory and superposition in a superspin glass. *Scientific Reports*, **2021**, 11, 7743	4.9	2
13	Magnetism in the interface of Co/CoO. *EPJ Web of Conferences*, **2014**, 75, 03001	0.3	1
12	Iron-oxide colloidal nanoclusters: from fundamental physical properties to diagnosis and therapy **2014**,		1
11	Tunable magnetic properties of cluster assembled films grown from low temperature co-depositions. *Journal of Physics Condensed Matter*, **2004**, 16, S2287-S2297	1.8	1
10	Critical reflection activation analysis-a new near-surface probe. *Journal Physics D: Applied Physics*, **1989**, 22, 1001-1003	3	1
9	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		1
8	Interplay between inter- and intraparticle interactions in bi-magnetic core/shell nanoparticles. *Nanoscale Advances*,	5.1	1
7	Multiscale modeling of magnetic nanoparticle systems. *Frontiers of Nanoscience*, **2020**, 17, 27-39	0.7	
6	Monte Carlo Simulations of Small Interacting Magnetic Particles **1997**, 37-44		

List of Publications

5	Numerical study of the structure and the magnetic properties of Co clusters on Au surfaces. *Physica Status Solidi A*, **2004**, 201, 3300-3304	
4	Study of the ground state properties of the perovskites R(Y, Pr)BaCuT(Fe, Co)O5+y within the Hubbard model. *Journal of Applied Physics*, **2001**, 89, 7317-7319	2.5
3	How to measure the wavefunction of an adatom: the semiclassical theory of desorbtive scattering. *Journal of Physics Condensed Matter*, **1989**, 1, 9513-9518	1.8
2	Application of Multiscale Computational Techniques to the Study of Magnetic Nanoparticle Systems. *Lecture Notes in Computer Science*, **2020**, 301-311	0.9
1	Interparticle Interactions: Theory and Mesoscopic Modeling. *Springer Series in Materials Science*, **2021**, 39-63	0.9