

Kalliopi N Trohidou

List of Publications by Year in Descending Order

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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.

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	Memory and superposition in a superspin glass. <i>Scientific Reports</i> , 2021 , 11, 7743	4.9	2
93	Magnetism of Nanoparticles: Effect of the Organic Coating. <i>Nanomaterials</i> , 2021 , 11,	5.4	11
92	Size effects on the magnetic behavior of Fe ₂ O ₃ core/SiO ₂ shell nanoparticle assemblies. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 522, 167570	2.8	4
91	Interparticle Interactions: Theory and Mesoscopic Modeling. <i>Springer Series in Materials Science</i> , 2021 , 39-63	0.9	
90	Multiscale modeling of magnetic nanoparticle systems. <i>Frontiers of Nanoscience</i> , 2020 , 17, 27-39	0.7	
89	Bad neighbour, good neighbour: how magnetic dipole interactions between soft and hard ferrimagnetic nanoparticles affect macroscopic magnetic properties in ferrofluids. <i>Nanoscale</i> , 2020 , 12, 11222-11231	7.7	5
88	Towards high-performance electrochemical thermal energy harvester based on ferrofluids. <i>Applied Materials Today</i> , 2020 , 19, 100587	6.6	5
87	Simultaneous Individual and Dipolar Collective Properties in Binary Assemblies of Magnetic Nanoparticles. <i>Chemistry of Materials</i> , 2020 , 32, 969-981	9.6	13
86	Application of Multiscale Computational Techniques to the Study of Magnetic Nanoparticle Systems. <i>Lecture Notes in Computer Science</i> , 2020 , 301-311	0.9	
85	Effect of albumin mediated clustering on the magnetic behavior of MnFeO nanoparticles: experimental and theoretical modeling study. <i>Nanotechnology</i> , 2020 , 31, 025707	3.4	4
84	Effect of organic coating on the charge distribution of CoFe ₂ O ₄ nanoparticles. <i>Journal of Alloys and Compounds</i> , 2019 , 796, 9-12	5.7	5
83	Vacancy-Driven Noncubic Local Structure and Magnetic Anisotropy Tailoring in Fe ₃ O ₄ Nanocrystals. <i>Physical Review X</i> , 2019 , 9,	9.1	6
82	Optimising the magnetic performance of Co ferrite nanoparticles via organic ligand capping. <i>Nanoscale</i> , 2018 , 10, 21244-21253	7.7	24
81	Fe-Doping-Induced Magnetism in Nano-Hydroxyapatites. <i>Inorganic Chemistry</i> , 2017 , 56, 4447-4459	5.1	45
80	Superspin glass state in a diluted nanoparticle system stabilized by interparticle interactions mediated by an antiferromagnetic matrix. <i>Nanotechnology</i> , 2017 , 28, 035701	3.4	10
79	Remanence Plots as a Probe of Spin Disorder in Magnetic Nanoparticles. <i>Chemistry of Materials</i> , 2017 , 29, 8258-8268	9.6	45
78	Robust Ferromagnetism of Chromium Nanoparticles Formed in Superfluid Helium. <i>Advanced Materials</i> , 2017 , 29, 1604277	24	13

77	Increase of the blocking temperature of Fe ₃ O ₄ /Ag granular multilayers with increasing number of the layers. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 401, 386-390	2.8	2
76	Optical-Vibrational Properties of the Cs ₂ SnX ₆ (X = Cl, Br, I) Defect Perovskites and Hole-Transport Efficiency in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 11777-11785	3.8	161
75	Enhanced magnetic properties in antiferromagnetic-core/ferrimagnetic-shell nanoparticles. <i>Scientific Reports</i> , 2015 , 5, 9609	4.9	66
74	Susceptibility losses in heating of magnetic core/shell nanoparticles for hyperthermia: a Monte Carlo study of shape and size effects. <i>Nanoscale</i> , 2015 , 7, 7753-62	7.7	32
73	Mixed-halide Cs ₂ SnI ₃ Br ₃ perovskite as low resistance hole-transporting material in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2015 , 184, 466-474	6.7	36
72	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, 3002-15	7.7	63
71	Assembly-mediated interplay of dipolar interactions and surface spin disorder in colloidal maghemite nanoclusters. <i>Nanoscale</i> , 2014 , 6, 3764-76	7.7	66
70	Magnetism in the interface of Co/CoO. <i>EPJ Web of Conferences</i> , 2014 , 75, 03001	0.3	1
69	Dynamics in Superspin Glass Systems. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	5
68	Iron-oxide colloidal nanoclusters: from fundamental physical properties to diagnosis and therapy 2014 ,		1
67	Memory effects on the magnetic behavior of assemblies of nanoparticles with ferromagnetic core/antiferromagnetic shell morphology. <i>Physical Review B</i> , 2013 , 88,	3.3	33
66	Three dimensional quantitative characterization of magnetite nanoparticles embedded in mesoporous silicon: local curvature, demagnetizing factors and magnetic Monte Carlo simulations. <i>Nanoscale</i> , 2013 , 5, 11944-53	7.7	8
65	Robust antiferromagnetic coupling in hard-soft bi-magnetic core/shell nanoparticles. <i>Nature Communications</i> , 2013 , 4, 2960	17.4	132
64	Phase diagram and critical behavior of the random ferromagnet Ga _{1-x} Mn _x N. <i>Physical Review B</i> , 2013 , 88,	3.3	44
63	Stepwise behaviour of magnetization temperature dependence in iron nanoparticle assembled films. <i>Nanotechnology</i> , 2013 , 24, 165706	3.4	3
62	Memory Effects in Ultra-Small CoFe ₂ O ₄ Nanoparticles. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 1305-1308	2	12
61	Magnetic behavior of dense nanoparticle assemblies: Interplay of interparticle interactions and particle system morphology. <i>Physical Review B</i> , 2012 , 86,	3.3	13
60	Origin of low-temperature magnetic ordering in Ga _{1-x} Mn _x N. <i>Physical Review B</i> , 2012 , 85,	3.3	41

59	Mesoscopic model for the simulation of large arrays of bi-magnetic core/shell nanoparticles. <i>Advanced Materials</i> , 2012 , 24, 4331-6	24	37
58	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, 5138-47	7-7	66
57	Interplay between particle anisotropy and exchange interaction in Fe nanoparticle films. <i>Physical Review B</i> , 2011 , 83,	3-3	5
56	Interface exchange coupling in Co nanoparticles dispersed in a Mn matrix. <i>Journal of Physics Condensed Matter</i> , 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. <i>Physical Review B</i> , 2009 , 79,	3-3	16
54	Numerical study of the exchange-bias effect in nanoparticles with ferromagnetic core/ferrimagnetic disordered shell morphology. <i>Physical Review B</i> , 2009 , 79,	3-3	119
53	Cubic versus spherical magnetic nanoparticles: the role of surface anisotropy. <i>Journal of the American Chemical Society</i> , 2008 , 130, 13234-9	16.4	196
52	Surface spin-glass freezing in interacting core-shell NiO nanoparticles. <i>Nanotechnology</i> , 2008 , 19, 185702	3.4	139
51	Surface effects on the magnetic behaviour of nanoparticles with core/shell morphology. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 134006	3	13
50	Monte Carlo study of the exchange bias and the training effect in nanoparticles with core/shell morphology. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 , 205, 1865-1871	1.6	21
49	Exchange bias in disordered granular systems. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 225007	1.8	22
48	A MONTE CARLO STUDY OF THE EXCHANGE BIAS EFFECTS IN MAGNETIC NANOPARTICLES WITH FERROMAGNETIC CORE/ANTIFERROMAGNETIC SHELL MORPHOLOGY. <i>Modern Physics Letters B</i> , 2007 , 21, 1169-1177	1.6	19
47	Monte Carlo study of the transverse susceptibility in ordered arrays of magnetic nanoparticles. <i>Physical Review B</i> , 2006 , 74,	3-3	7
46	Glassy dynamics in the exchange bias properties of the iron/iron oxide nanogranular system. <i>Physical Review B</i> , 2006 , 73,	3-3	29
45	Dynamical and thermal effects in nanoparticle systems driven by a rotating magnetic field. <i>Physical Review B</i> , 2006 , 74,	3-3	53
44	Monte Carlo Studies of Surface and Interface Effects in Magnetic Nanoparticles 2005 , 45-74		9
43	Numerical study of the exchange bias effects in magnetic nanoparticles with core/shell morphology. <i>Physical Review B</i> , 2005 , 71,	3-3	78
42	The behaviour of nanostructured magnetic materials produced by depositing gas-phase nanoparticles. <i>Journal Physics D: Applied Physics</i> , 2005 , 38, R357-R379	3	97

41	Magnetic and structural properties of isolated and assembled clusters. <i>Surface Science Reports</i> , 2005 , 56, 189-275	12.9	352
40	Correlation between tunneling magnetoresistance and magnetization in dipolar-coupled nanoparticle arrays. <i>Physical Review B</i> , 2005 , 71,	3.3	19
39	Monte Carlo simulations of ferromagnetism in p-Cd1-xMnxTe quantum wells. <i>Physical Review Letters</i> , 2005 , 94, 127201	7.4	23
38	Tunable magnetic properties of cluster assembled films grown from low temperature co-depositions. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, S2287-S2297	1.8	1
37	Dipolar interaction effects on the thermally activated magnetic relaxation of two-dimensional nanoparticle ensembles. <i>Applied Physics Letters</i> , 2004 , 84, 4672-4674	3.4	3
36	Numerical study of the structure and the magnetic properties of Co clusters on Au surfaces. <i>Physica Status Solidi A</i> , 2004 , 201, 3300-3304		
35	Magnetic relaxation in finite two-dimensional nanoparticle ensembles. <i>Physical Review B</i> , 2003 , 67,	3.3	33
34	Competition between dipolar and exchange interparticle interactions in magnetic nanoparticle films. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 262, 107-110	2.8	66
33	Magnetic properties of self-assembled interacting nanoparticles. <i>Applied Physics Letters</i> , 2002 , 81, 4574-4576	3.4	51
32	Magnetic behavior of nanostructured films assembled from preformed Fe clusters embedded in Ag. <i>Physical Review B</i> , 2002 , 66,	3.3	162
31	Conditions for optimum giant magnetoresistance in granular metals. <i>Journal of Applied Physics</i> , 2001 , 89, 7293-7295	2.5	3
30	Study of the ground state properties of the perovskites R(Y, Pr)BaCuT(Fe, Co)O5+y within the Hubbard model. <i>Journal of Applied Physics</i> , 2001 , 89, 7317-7319	2.5	
29	Scaling laws in magneto-optical properties of aggregated ferrofluids. <i>Physical Review E</i> , 2001 , 64, 031401	1.4	4
28	Scaling behavior of the giant magnetoresistance of magnetic aggregates. <i>Physical Review B</i> , 2001 , 63,	3.3	6
27	Fluctuation theory of magnetic relaxation for two-dimensional ensembles of dipolar interacting nanoparticles. <i>Physical Review B</i> , 2001 , 64,	3.3	21
26	Dipolar ferromagnetism in ensembles of ellipsoidal nanoparticles. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 7111-7115	1.8	5
25	Interplay of dipolar interactions and grain-size distribution in the giant magnetoresistance of granular metals. <i>Physical Review B</i> , 2000 , 62, 3941-3951	3.3	49
24	Magnetization reversal mechanisms in small antiferromagnetic particles. <i>Journal of Applied Physics</i> , 1999 , 85, 1050-1057	2.5	16

23	Magnetic properties of dipolar interacting single-domain particles. <i>Physical Review B</i> , 1998 , 58, 12169-12177	3.7	229
22	Monte Carlo simulations on the coercive behaviour of oxide coated ferromagnetic particles. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 7475-7483	1.8	5
21	Surface effects on the magnetic behavior of antiferromagnetic particles. <i>Journal of Applied Physics</i> , 1998 , 84, 2795-2800	2.5	33
20	Magnetization behaviour of small particle aggregates. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, L255-L258	1.8	3
19	Spatial Distribution and Fractal Properties of Aggregating Magnetic and Non-Magnetic Particles. <i>Fractals</i> , 1998 , 06, 219-230	3.2	2
18	Magnetic behavior of the oxygen deficient perovskite PrBaCuFeO _{5+y} . <i>Journal of Applied Physics</i> , 1997 , 81, 5293-5295	2.5	2
17	Effect of surface anisotropy on the coercive field of small magnetic particles. <i>Journal of Applied Physics</i> , 1997 , 81, 4739-4740	2.5	14
16	Monte Carlo Simulations of Small Interacting Magnetic Particles 1997 , 37-44		
15	Aggregation and segregation in a mixture of magnetic and nonmagnetic particles. <i>Physical Review B</i> , 1995 , 51, 11521-11526	3.3	20
14	The spectrum of longitudinal spin fluctuations in a ferromagnet including dipolar and Zeeman energies. <i>Journal of Physics Condensed Matter</i> , 1993 , 5, 1109-1118	1.8	2
13	Muon spin relaxation in ferromagnets. II. Critical and paramagnetic magnetization fluctuations. <i>Journal of Physics Condensed Matter</i> , 1992 , 4, 2061-2071	1.8	10
12	Muon spin relaxation in ferromagnets. I. Spin-wave fluctuations. <i>Journal of Physics Condensed Matter</i> , 1992 , 4, 2043-2060	1.8	11
11	Static and dynamic susceptibilities of ferromagnets calculated with spin-wave theory including dipolar forces. <i>Journal of Physics Condensed Matter</i> , 1991 , 3, 1827-1840	1.8	14
10	Calculation of the high-energy spin-wave spectrum of hcp cobalt. <i>Physical Review Letters</i> , 1991 , 67, 2561-2564	3.7	16
9	Monte Carlo calculations on antiferromagnetic Ising particles. <i>Physical Review B</i> , 1990 , 41, 9345-9351	3.3	19
8	Critical reflection activation analysis-a new near-surface probe. <i>Journal Physics D: Applied Physics</i> , 1989 , 22, 1001-1003	3	1
7	How to measure the wavefunction of an adatom: the semiclassical theory of desorbative scattering. <i>Journal of Physics Condensed Matter</i> , 1989 , 1, 9513-9518	1.8	
6	Spin and orbital contributions to the dynamical structure factors of paramagnetic transition metals. <i>Physical Review B</i> , 1988 , 37, 8154-8166	3.3	5

- 5 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
- 4 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
- 3 Magnetic neutron-electron scattering; use of the f-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
- 2 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
- 1 Interplay between inter- and intraparticle interactions in bi-magnetic core/shell nanoparticles. *Nanoscale Advances*, 5.1 1