Elin L Winkler

List of Publications by Citations

75 papers	1,787 citations	24 h-index	40 g-index
76 ext. papers	1,941 ext. citations	4.2 avg, IF	4.36 L-index

#	Paper	IF	Citations
75	Surface anisotropy effects in NiO nanoparticles. *Physical Review B*, **2005**, 72,	3.3	163
74	Surface spin-glass freezing in interacting core-shell NiO nanoparticles. *Nanotechnology*, **2008**, 19, 185702	3.4	139
73	Magnetic interactions and magnon gap in the ferromagnetic superconductor RuSr2GdCu2O8. *Physical Review B*, **1999**, 60, R12597-R12600	3.3	115
72	Ferromagnetic correlations and mixed Ru valence in the magnetic superconductor RuSr2(Eu,Gd)Cu2O8. *Physical Review B*, **2001**, 63,	3.3	103
71	Size-dependent passivation shell and magnetic properties in antiferromagnetic/ferrimagnetic core/shell MnO nanoparticles. *Journal of the American Chemical Society*, **2010**, 132, 9398-407	16.4	100
70	Surface and magnetic interaction effects in Mn3O4 nanoparticles. *Physical Review B*, **2004**, 70,	3.3	70
69	Bimagnetic CoO Core/CoFe2O4 Shell Nanoparticles: Synthesis and Magnetic Properties. *Chemistry of Materials*, **2012**, 24, 512-516	9.6	68
68	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
67	Size dependence of the magnetic properties of antiferromagnetic Cr2O3 nanoparticles. *Physical Review B*, **2008**, 78,	3.3	63
66	Size effects in bimagnetic CoO/CoFe2O4 core/shell nanoparticles. *Nanotechnology*, **2014**, 25, 355704	3.4	48
65	Magnetocrystalline interactions in MnCr2O4 spinel. *Physical Review B*, **2009**, 80,	3.3	46
64	Surface effect in the magnetic order of antiferromagnetic nanoparticles. *Physica B: Condensed Matter*, **2006**, 384, 277-281	2.8	38
63	Magnetic Interactions and Energy Barrier Enhancement in Core/Shell Bimagnetic Nanoparticles. *Journal of Physical Chemistry C*, **2015**, 119, 15755-15762	3.8	37
62	Origin of magnetic anisotropy in ZnO/CoFe2O4 and CoO/CoFe2O4 core/shell nanoparticle systems. *Applied Physics Letters*, **2012**, 101, 252405	3.4	37
61	Resolving material-specific structures within Fe□□|Mn□□ core|shell nanoparticles using anomalous small-angle X-ray scattering. *ACS Nano*, **2013**, 7, 921-31	16.7	35
60	Tuning the coercivity and exchange bias by controlling the interface coupling in bimagnetic core/shell nanoparticles. *Nanoscale*, **2017**, 9, 10240-10247	7.7	33
59	Thickness dependence of exchange coupling in epitaxial Fe3O4/CoFe2O4 soft/hard magnetic bilayers. *Physical Review B*, **2016**, 94,	3.3	33

58	Controlling the dominant magnetic relaxation mechanisms for magnetic hyperthermia in bimagnetic core-shell nanoparticles. *Nanoscale*, **2019**, 11, 3164-3172	7.7	32
57	Phase competition in L0.5A0.5MnO3 perovskites. *Physical Review B*, **2002**, 66,	3.3	32
56	Bond-length fluctuations in transition-metal oxoperovskites. *Journal of Solid State Chemistry*, **2003**, 175, 116-123	3.3	29
55	Bifunctional CoFe2O4/ZnO Core/Shell Nanoparticles for Magnetic Fluid Hyperthermia with Controlled Optical Response. *Journal of Physical Chemistry C*, **2018**, 122, 3047-3057	3.8	26
54	Evolution of the magnetic anisotropy with particle size in antiferromagnetic Cr2O3 nanoparticles. *Journal of Applied Physics*, **2010**, 108, 104303	2.5	26
53	Superparamagnetism in AFM Cr2O3 nanoparticles. *Journal of Alloys and Compounds*, **2010**, 495, 520-523	5.7	24
52	Exchange bias of Co nanoparticles embedded in Cr2O3 and Al2O3 matrices. *Journal of Applied Physics*, **2009**, 106, 103920	2.5	24
51	Chromium and titanium/chromium-containing MCM-41 mesoporous silicates as promising catalysts for the photobleaching of azo dyes in aqueous suspensions. A multitechnique investigation. *Microporous and Mesoporous Materials*, **2012**, 163, 85-95	5.3	18
50	Free-Radical Formation by the Peroxidase-Like Catalytic Activity of MFe2O4 (M = Fe, Ni, and Mn) Nanoparticles. *Journal of Physical Chemistry C*, **2019**, 123, 20617-20627	3.8	17
49	Magnetic properties of weakly exchange-coupled high spin Co(II) ions in pseudooctahedral coordination evaluated by single crystal X-band EPR spectroscopy and magnetic measurements. *Inorganic Chemistry*, **2014**, 53, 2535-44	5.1	17
48	Evolution of polaron size in La2SrxNiO4. *Physical Review B*, **2002**, 66,	3.3	17
47	Resonant Raman scattering and optical transmission studies of Cu(II) and Fe(III) impurities in crystalline L-alanine. *Physical Review B*, **2000**, 61, 15756-15761	3.3	17
46	Correlation between radiation damage and magnetic properties in reactor vessel steels. *Journal of Nuclear Materials*, **2014**, 445, 57-62	3.3	16
45	Exchange bias and surface effects in bimagnetic CoOcore/Co0.5Ni0.5Fe2O4-shell nanoparticles. *Physical Review B*, **2016**, 94,	3.3	15
44	Exchange-coupling in thermal annealed bimagnetic core/shell nanoparticles. *Journal of Alloys and Compounds*, **2015**, 633, 333-337	5.7	15
43	ESR/Alanine gamma-dosimetry in the 10-30 Gy range. *Applied Radiation and Isotopes*, **2000**, 52, 1195-6	1.7	15
42	Thermodynamic conditions during growth determine the magnetic anisotropy in epitaxial thin-films of La0.7Sr0.3MnO3. *Journal Physics D: Applied Physics*, **2016**, 49, 315001	3	14
41	Effects of biological buffer solutions on the peroxidase-like catalytic activity of FeO nanoparticles. *Nanoscale*, **2019**, 11, 18393-18406	7.7	14

40	Nature of active vanadium nanospecies in MCM-41 type catalysts for olefins oxidation. *Materials Chemistry and Physics*, **2016**, 175, 172-179	4.4	13
39	Determination of Gd concentration profile in UO2–Gd2O3 fuel pellets. *Journal of Nuclear Materials*, **2014**, 451, 207-210	3.3	13
38	Luminescence and resonant Raman scattering of color centers in irradiated crystalline L-alanine. *Physical Review B*, **1998**, 57, 13477-13484	3.3	13
37	Effects of Zn Substitution in the Magnetic and Morphological Properties of Fe-Oxide-Based Core–Shell Nanoparticles Produced in a Single Chemical Synthesis. *Journal of Physical Chemistry C*, **2019**, 123, 1444-1453	3.8	12
36	Structural, electric, and magnetic study of Y0.5Ca0.5MnO3. *Journal of Magnetism and Magnetic Materials*, **2004**, 272-276, 81-82	2.8	10
35	Magnetic phase coexistence in CMR manganites: ESR evidence. *Physica B: Condensed Matter*, **2004**, 354, 55-58	2.8	10
34	Magnetic behavior of iron-modified MCM-41 correlated with clustering processes from the wet impregnation method. *Journal of Magnetism and Magnetic Materials*, **2016**, 407, 299-307	2.8	9
33	Microstructure and magnetic properties of as-cast Ni2MnGa alloys processed by twin roller melt spinning. *Journal of Magnetism and Magnetic Materials*, **2013**, 335, 75-85	2.8	9
32	Comment on "Hausmannite Mn3O4nanorods: synthesis, characterization and magnetic properties" *Nanotechnology*, **2007**, 18, 158001	3.4	9
31	Magnetic resonance in RuSr2RECu2O8 (RE=Eu, Gd) ferromagnetic superconductor. *Journal of Applied Physics*, **2001**, 89, 7666-7668	2.5	9
30	Tunnel Magnetoresistance in Self-Assemblies of Exchange-Coupled Core/Shell Nanoparticles. *Physical Review Applied*, **2019**, 11,	4.3	8
29	Ferromagnetic resonance study of Pr0.5(Ca1−xSrx)0.5MnO3. *Physica B: Condensed Matter*, **2007**, 398, 434-437	2.8	8
28	Magnetic properties of Co nanoparticles in a Cr2O3 antiferromagnetic matrix. *Physica B: Condensed Matter*, **2006**, 384, 268-270	2.8	8
27	Fe impurities in L-alanine: An EPR, luminescence, and Raman study. *Physical Review B*, **1999**, 59, 1255-1262	3.3	8
26	Unravelling the Elusive Antiferromagnetic Order in Wurtzite and Zinc Blende CoO Polymorph Nanoparticles. *Small*, **2018**, 14, e1703963	11	7
25	Influence of the hydration by the environmental humidity on the metallic speciation and the photocatalytic activity of Cr/MCM-41. *Journal of Solid State Chemistry*, **2014**, 213, 229-234	3.3	7
24	On the nature of Cr species on MCM-41 obtained by a one step method and their enhanced photocatalytic performance under visible radiation: New insights by a combined techniques approach. *Applied Catalysis A: General*, **2013**, 467, 363-370	5.1	7
23	Dynamic study of the internal magnetic order of Mn3O4 nanoparticles. *Journal of Nanoparticle Research*, **2011**, 13, 5653-5659	2.3	7

22	V□V bond length fluctuations in VO x. *Europhysics Letters*, **2003**, 61, 527-533	1.6	7
21	ESR phase competition study of Pr0.5(Ca0.85Sr0.15)0.5MnO3. *Physica B: Condensed Matter*, **2004**, 354, 51-54	2.8	7
20	Evolution of Copper Nanospecies in the Synthesis Stages of MCM-41-Type Mesoporous Molecular Sieves. *Journal of Physical Chemistry C*, **2012**, 116, 5376-5382	3.8	6
19	Temperature evolution of the effective magnetic anisotropy in the MnCr□□spinel. *Journal of Physics Condensed Matter*, **2015**, 27, 016003	1.8	5
18	Magnetic properties of La1□CexCrO3. *Journal of Magnetism and Magnetic Materials*, **2007**, 310, e959-e961	2.8	5
17	Adjusting the N□el relaxation time of Fe3O4/ZnxCo1-xFe2O4 core/shell nanoparticles for optimal heat generation in magnetic hyperthermia. *Nanotechnology*, **2020**,	3.4	5
16	Microstructure of as-cast single and twin roller melt-spun Ni 2 MnGa ribbons. *Materials Characterization*, **2017**, 124, 171-181	3.9	4
15	Improving degradation of real wastewaters with self-heating magnetic nanocatalysts. *Journal of Cleaner Production*, **2021**, 308, 127385	10.3	4
14	Phase coexistence in manganites: doping and structural dependence. *Journal of Physics Condensed Matter*, **2010**, 22, 256002	1.8	3
13	High-temperature magnetization in Y1□CaxMnO3. *Physica B: Condensed Matter*, **2006**, 384, 41-43	2.8	3
12	Magnetic Hyperthermia Experiments with Magnetic Nanoparticles in Clarified Butter Oil and Paraffin: A Thermodynamic Analysis. *Journal of Physical Chemistry C*, **2020**, 124, 27709-27721	3.8	2
11	Reply to □omment on □ree-Radical Formation by the Peroxidase-Like Catalytic Activity of MFe2O4 (M = Fe, Ni, and Mn) Nanoparticles□*Journal of Physical Chemistry C*, **2019**, 123, 28511-28512	3.8	2
10	. *IEEE Transactions on Magnetics*, **2013**, 49, 4514-4517	2	2
9	Delocalized and localized states of eg electrons in half-doped manganites. *Journal of Physics Condensed Matter*, **2013**, 25, 296003	1.8	1
8	Electron spin resonance study of Y1□CaxMnO3. *Physica B: Condensed Matter*, **2007**, 398, 464-467	2.8	1
7	Next generation of nanozymes: A perspective of the challenges to match biological performance. *Journal of Applied Physics*, **2021**, 130, 190903	2.5	1
6	Core/Shell Bimagnetic Nanoparticles. *Springer Series in Materials Science*, **2021**, 87-106	0.9	1
5	Cation occupancy in bimagnetic CoO-core/Co1□ZnxFe2O4-shell (x´=´0-1) nanoparticles. *Journal of Alloys and Compounds*, **2021**, 877, 160172	5.7	1

4	Hydrophilization of magnetic nanoparticles with an amphiphilic polymer revisited: Roles of nanoparticle capping density and polymer structure. *Applied Surface Science*, **2021**, 570, 151171	6.7	1
3	Microstructure and magnetic properties of as-cast Ni2MnGa rods and tubes solidified by suction casting. *Materials Characterization*, **2019**, 158, 109956	3.9	0
2	Antiferromagnets: Unravelling the Elusive Antiferromagnetic Order in Wurtzite and Zinc Blende CoO Polymorph Nanoparticles (Small 15/2018). *Small*, **2018**, 14, 1870068	11	
1	Reactive Oxygen Species in Emulated Martian Conditions and Their Effect on the Viability of the Unicellular Alga. *Astrobiology*, **2021**, 21, 692-705	3.7	