

Elin L Winkler

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.

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	Next generation of nanozymes: A perspective of the challenges to match biological performance. <i>Journal of Applied Physics</i> , 2021 , 130, 190903	2.5	1
74	Reactive Oxygen Species in Emulated Martian Conditions and Their Effect on the Viability of the Unicellular Alga. <i>Astrobiology</i> , 2021 , 21, 692-705	3.7	
73	Improving degradation of real wastewaters with self-heating magnetic nanocatalysts. <i>Journal of Cleaner Production</i> , 2021 , 308, 127385	10.3	4
72	Core/Shell Bimagnetic Nanoparticles. <i>Springer Series in Materials Science</i> , 2021 , 87-106	0.9	1
71	Cation occupancy in bimagnetic CoO-core/Co _{1-x} Zn _x Fe ₂ O ₄ -shell (x=0-1) nanoparticles. <i>Journal of Alloys and Compounds</i> , 2021 , 877, 160172	5.7	1
70	Hydrophilization of magnetic nanoparticles with an amphiphilic polymer revisited: Roles of nanoparticle capping density and polymer structure. <i>Applied Surface Science</i> , 2021 , 570, 151171	6.7	1
69	Magnetic Hyperthermia Experiments with Magnetic Nanoparticles in Clarified Butter Oil and Paraffin: A Thermodynamic Analysis. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 27709-27721	3.8	2
68	Adjusting the N _B L relaxation time of Fe ₃ O ₄ /Zn _x Co _{1-x} Fe ₂ O ₄ core/shell nanoparticles for optimal heat generation in magnetic hyperthermia. <i>Nanotechnology</i> , 2020 ,	3.4	5
67	Controlling the dominant magnetic relaxation mechanisms for magnetic hyperthermia in bimagnetic core-shell nanoparticles. <i>Nanoscale</i> , 2019 , 11, 3164-3172	7.7	32
66	Tunnel Magnetoresistance in Self-Assemblies of Exchange-Coupled Core/Shell Nanoparticles. <i>Physical Review Applied</i> , 2019 , 11,	4.3	8
65	Free-Radical Formation by the Peroxidase-Like Catalytic Activity of MFe ₂ O ₄ (M = Fe, Ni, and Mn) Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 20617-20627	3.8	17
64	Reply to Comment on Free-Radical Formation by the Peroxidase-Like Catalytic Activity of MFe ₂ O ₄ (M = Fe, Ni, and Mn) Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 28511-28512	3.8	2
63	Microstructure and magnetic properties of as-cast Ni ₂ MnGa rods and tubes solidified by suction casting. <i>Materials Characterization</i> , 2019 , 158, 109956	3.9	0
62	Effects of biological buffer solutions on the peroxidase-like catalytic activity of FeO nanoparticles. <i>Nanoscale</i> , 2019 , 11, 18393-18406	7.7	14
61	Effects of Zn Substitution in the Magnetic and Morphological Properties of Fe-Oxide-Based Core/Shell Nanoparticles Produced in a Single Chemical Synthesis. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 1444-1453	3.8	12
60	Unravelling the Elusive Antiferromagnetic Order in Wurtzite and Zinc Blende CoO Polymorph Nanoparticles. <i>Small</i> , 2018 , 14, e1703963	11	7
59	Bifunctional CoFe ₂ O ₄ /ZnO Core/Shell Nanoparticles for Magnetic Fluid Hyperthermia with Controlled Optical Response. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 3047-3057	3.8	26

58	Antiferromagnets: Unravelling the Elusive Antiferromagnetic Order in Wurtzite and Zinc Blende CoO Polymorph Nanoparticles (Small 15/2018). <i>Small</i> , 2018 , 14, 1870068	11	
57	Tuning the coercivity and exchange bias by controlling the interface coupling in bimagnetic core/shell nanoparticles. <i>Nanoscale</i> , 2017 , 9, 10240-10247	7.7	33
56	Microstructure of as-cast single and twin roller melt-spun Ni ₂ MnGa ribbons. <i>Materials Characterization</i> , 2017 , 124, 171-181	3.9	4
55	Exchange bias and surface effects in bimagnetic CoO _{core} /Co _{0.5} Ni _{0.5} Fe ₂ O ₄ -shell nanoparticles. <i>Physical Review B</i> , 2016 , 94,	3.3	15
54	Nature of active vanadium nanospecies in MCM-41 type catalysts for olefins oxidation. <i>Materials Chemistry and Physics</i> , 2016 , 175, 172-179	4.4	13
53	Magnetic behavior of iron-modified MCM-41 correlated with clustering processes from the wet impregnation method. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 407, 299-307	2.8	9
52	Thermodynamic conditions during growth determine the magnetic anisotropy in epitaxial thin-films of La _{0.7} Sr _{0.3} MnO ₃ . <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 315001	3	14
51	Thickness dependence of exchange coupling in epitaxial Fe ₃ O ₄ /CoFe ₂ O ₄ soft/hard magnetic bilayers. <i>Physical Review B</i> , 2016 , 94,	3.3	33
50	Magnetic Interactions and Energy Barrier Enhancement in Core/Shell Bimagnetic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 15755-15762	3.8	37
49	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
48	Temperature evolution of the effective magnetic anisotropy in the MnCr ₂ O ₄ spinel. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 016003	1.8	5
47	Exchange-coupling in thermal annealed bimagnetic core/shell nanoparticles. <i>Journal of Alloys and Compounds</i> , 2015 , 633, 333-337	5.7	15
46	Influence of the hydration by the environmental humidity on the metallic speciation and the photocatalytic activity of Cr/MCM-41. <i>Journal of Solid State Chemistry</i> , 2014 , 213, 229-234	3.3	7
45	Determination of Gd concentration profile in UO ₂ /Gd ₂ O ₃ fuel pellets. <i>Journal of Nuclear Materials</i> , 2014 , 451, 207-210	3.3	13
44	Size effects in bimagnetic CoO/CoFe ₂ O ₄ core/shell nanoparticles. <i>Nanotechnology</i> , 2014 , 25, 355704	3.4	48
43	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. <i>Inorganic Chemistry</i> , 2014 , 53, 2535-44	5.1	17
42	Correlation between radiation damage and magnetic properties in reactor vessel steels. <i>Journal of Nuclear Materials</i> , 2014 , 445, 57-62	3.3	16
41	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. <i>Applied Catalysis A: General</i> , 2013 , 467, 363-370	5.1	7

40	. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 4514-4517	2	2
39	Resolving material-specific structures within Fe ₃ O ₄ /MnO ₂ core/shell nanoparticles using anomalous small-angle X-ray scattering. <i>ACS Nano</i> , 2013 , 7, 921-31	16.7	35
38	Microstructure and magnetic properties of as-cast Ni ₂ MnGa alloys processed by twin roller melt spinning. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 335, 75-85	2.8	9
37	Delocalized and localized states of eg electrons in half-doped manganites. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 296003	1.8	1
36	Origin of magnetic anisotropy in ZnO/CoFe ₂ O ₄ and CoO/CoFe ₂ O ₄ core/shell nanoparticle systems. <i>Applied Physics Letters</i> , 2012 , 101, 252405	3.4	37
35	Evolution of Copper Nanospecies in the Synthesis Stages of MCM-41-Type Mesoporous Molecular Sieves. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 5376-5382	3.8	6
34	Chromium and titanium/chromium-containing MCM-41 mesoporous silicates as promising catalysts for the photobleaching of azo dyes in aqueous suspensions. A multitechnique investigation. <i>Microporous and Mesoporous Materials</i> , 2012 , 163, 85-95	5.3	18
33	Bimagnetic CoO Core/CoFe ₂ O ₄ Shell Nanoparticles: Synthesis and Magnetic Properties. <i>Chemistry of Materials</i> , 2012 , 24, 512-516	9.6	68
32	Dynamic study of the internal magnetic order of Mn ₃ O ₄ nanoparticles. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 5653-5659	2.3	7
31	Evolution of the magnetic anisotropy with particle size in antiferromagnetic Cr ₂ O ₃ nanoparticles. <i>Journal of Applied Physics</i> , 2010 , 108, 104303	2.5	26
30	Phase coexistence in manganites: doping and structural dependence. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 256002	1.8	3
29	Superparamagnetism in AFM Cr ₂ O ₃ nanoparticles. <i>Journal of Alloys and Compounds</i> , 2010 , 495, 520-523	5.7	24
28	Size-dependent passivation shell and magnetic properties in antiferromagnetic/ferrimagnetic core/shell MnO nanoparticles. <i>Journal of the American Chemical Society</i> , 2010 , 132, 9398-407	16.4	100
27	Magnetocrystalline interactions in MnCr ₂ O ₄ spinel. <i>Physical Review B</i> , 2009 , 80,	3.3	46
26	Exchange bias of Co nanoparticles embedded in Cr ₂ O ₃ and Al ₂ O ₃ matrices. <i>Journal of Applied Physics</i> , 2009 , 106, 103920	2.5	24
25	Surface spin-glass freezing in interacting core-shell NiO nanoparticles. <i>Nanotechnology</i> , 2008 , 19, 185702	3.4	139
24	Size dependence of the magnetic properties of antiferromagnetic Cr ₂ O ₃ nanoparticles. <i>Physical Review B</i> , 2008 , 78,	3.3	63
23	Electron spin resonance study of Y _{1-x} CaxMnO ₃ . <i>Physica B: Condensed Matter</i> , 2007 , 398, 464-467	2.8	1

22	Ferromagnetic resonance study of $\text{Pr}_{0.5}(\text{Ca}_{1-x}\text{Sr}_x)\text{MnO}_3$. <i>Physica B: Condensed Matter</i> , 2007 , 398, 434-437	2.8	8
21	Magnetic properties of $\text{La}_{1-x}\text{Ce}_x\text{CrO}_3$. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, e959-e961	3.4	5
20	Comment on Häusmannite Mn_3O_4 nanorods: synthesis, characterization and magnetic properties. <i>Nanotechnology</i> , 2007 , 18, 158001	3.4	9
19	High-temperature magnetization in $\text{Y}_{1-x}\text{Ca}_x\text{MnO}_3$. <i>Physica B: Condensed Matter</i> , 2006 , 384, 41-43	2.8	3
18	Surface effect in the magnetic order of antiferromagnetic nanoparticles. <i>Physica B: Condensed Matter</i> , 2006 , 384, 277-281	2.8	38
17	Magnetic properties of Co nanoparticles in a Cr_2O_3 antiferromagnetic matrix. <i>Physica B: Condensed Matter</i> , 2006 , 384, 268-270	2.8	8
16	Surface anisotropy effects in NiO nanoparticles. <i>Physical Review B</i> , 2005 , 72,	3.3	163
15	ESR phase competition study of $\text{Pr}_{0.5}(\text{Ca}_{0.85}\text{Sr}_{0.15})\text{MnO}_3$. <i>Physica B: Condensed Matter</i> , 2004 , 354, 51-54	2.8	7
14	Structural, electric, and magnetic study of $\text{Y}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 81-82	2.8	10
13	Magnetic phase coexistence in CMR manganites: ESR evidence. <i>Physica B: Condensed Matter</i> , 2004 , 354, 55-58	2.8	10
12	Surface and magnetic interaction effects in Mn_3O_4 nanoparticles. <i>Physical Review B</i> , 2004 , 70,	3.3	70
11	V-V bond length fluctuations in VO_x . <i>Europhysics Letters</i> , 2003 , 61, 527-533	1.6	7
10	Bond-length fluctuations in transition-metal oxoperovskites. <i>Journal of Solid State Chemistry</i> , 2003 , 175, 116-123	3.3	29
9	Evolution of polaron size in $\text{La}_{2-x}\text{Sr}_x\text{NiO}_4$. <i>Physical Review B</i> , 2002 , 66,	3.3	17
8	Phase competition in $\text{La}_{0.5}\text{A}_{0.5}\text{MnO}_3$ perovskites. <i>Physical Review B</i> , 2002 , 66,	3.3	32
7	Magnetic resonance in $\text{RuSr}_2\text{RECu}_2\text{O}_8$ (RE=Eu, Gd) ferromagnetic superconductor. <i>Journal of Applied Physics</i> , 2001 , 89, 7666-7668	2.5	9
6	Ferromagnetic correlations and mixed Ru valence in the magnetic superconductor $\text{RuSr}_2(\text{Eu,Gd})\text{Cu}_2\text{O}_8$. <i>Physical Review B</i> , 2001 , 63,	3.3	103
5	ESR/Alanine gamma-dosimetry in the 10-30 Gy range. <i>Applied Radiation and Isotopes</i> , 2000 , 52, 1195-6	1.7	15

4	Resonant Raman scattering and optical transmission studies of Cu(II) and Fe(III) impurities in crystalline L-alanine. <i>Physical Review B</i> , 2000 , 61, 15756-15761	3.3	17
3	Fe impurities in L-alanine: An EPR, luminescence, and Raman study. <i>Physical Review B</i> , 1999 , 59, 1255-1262	3.3	8
2	Magnetic interactions and magnon gap in the ferromagnetic superconductor RuSr ₂ GdCu ₂ O ₈ . <i>Physical Review B</i> , 1999 , 60, R12597-R12600	3.3	115
1	Luminescence and resonant Raman scattering of color centers in irradiated crystalline L-alanine. <i>Physical Review B</i> , 1998 , 57, 13477-13484	3.3	13