

Peter E Schiffer

List of Publications by Year in descending order

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papers

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14644

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239
times ranked

14783
citing authors

#	ARTICLE	IF	CITATIONS
1	Low Temperature Magnetoresistance and the Magnetic Phase Diagram of $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$. Physical Review Letters, 1995, 75, 3336-3339.	2.9	2,081
2	Artificial "spin ice"™ in a geometrically frustrated lattice of nanoscale ferromagnetic islands. Nature, 2006, 439, 303-306.	13.7	729
3	A strong ferroelectric ferromagnet created by means of spin-lattice coupling. Nature, 2010, 466, 954-958.	13.7	668
4	Ferromagnetic semiconductors: moving beyond (Ga,Mn)As. Nature Materials, 2005, 4, 195-202.	13.3	654
5	Synthesis of Fe Oxide Core/Au Shell Nanoparticles by Iterative Hydroxylamine Seeding. Nano Letters, 2004, 4, 719-723.	4.5	567
6	Unequal effects of the COVID-19 pandemic on scientists. Nature Human Behaviour, 2020, 4, 880-883.	6.2	498
7	Thermodynamic and Electron Diffraction Signatures of Charge and Spin Ordering in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$. Physical Review Letters, 1996, 76, 3188-3191.	2.9	434
8	Colloquium: Artificial spin ice: Designing and imaging magnetic frustration. Reviews of Modern Physics, 2013, 85, 1473-1490.	16.4	407
9	Effects of annealing time on defect-controlled ferromagnetism in $\text{Ga}_{1-x}\text{Mn}_x\text{As}$. Applied Physics Letters, 2001, 79, 1495-1497.	1.5	319
10	Highly enhanced Curie temperature in low-temperature annealed [Ga,Mn]As epilayers. Applied Physics Letters, 2003, 82, 2302-2304.	1.5	302
11	Slow Drag in a Granular Medium. Physical Review Letters, 1999, 82, 205-208.	2.9	286
12	Atomically engineered ferroic layers yield a room-temperature magnetoelectric multiferroic. Nature, 2016, 537, 523-527.	13.7	275
13	What keeps sandcastles standing?. Nature, 1997, 387, 765-765.	13.7	273
14	How "spin ice"™ freezes. Nature, 2001, 413, 48-51.	13.7	243
15	Charge-carrier localization induced by excess Fe in the superconductor $\text{Fe}_{1-x}\text{Mn}_x\text{Bi}_2$. Physical Review B, 2009, 80, .	1.1	220
16	Ultrasharp Magnetization Steps in Perovskite Manganites. Physical Review Letters, 2002, 89, 286602.	2.9	214
17	Crystallites of magnetic charges in artificial spin ice. Nature, 2013, 500, 553-557.	13.7	197
18	Low-temperature spin freezing in the $\text{Dy}_2\text{Ti}_2\text{O}_7$ spin ice. Physical Review B, 2004, 69, .	1.1	186

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19	Effect of biaxial strain on the electrical and magnetic properties of (001) La _{0.7} Sr _{0.3} MnO ₃ thin films. Applied Physics Letters, 2009, 95, .	1.5	184
20	A strong ferroelectric ferromagnet created by means of spin-lattice coupling. Nature, 2011, 476, 114-114.	13.7	183
21	Frustration Induced Spin Freezing in a Site-Ordered Magnet: Gadolinium Gallium Garnet. Physical Review Letters, 1995, 74, 2379-2382.	2.9	167
22	Impurity Band Conduction in a High Temperature Ferromagnetic Semiconductor. Physical Review Letters, 2006, 97, 087208.	2.9	162
23	Transport mechanisms in doped LaMnO ₃ : Evidence for polaron formation. Physical Review B, 1997, 56, 5104-5107.	1.1	157
24	Phase separation and low-field bulk magnetic properties of Pr _{0.7} Ca _{0.3} MnO ₃ . Physical Review B, 2001, 63, .	1.1	150
25	Emergent ice rule and magnetic charge screening from vertex frustration in artificial spin ice. Nature Physics, 2014, 10, 670-675.	6.5	141
26	Jamming and Fluctuations in Granular Drag. Physical Review Letters, 2000, 84, 5122-5125.	2.9	139
27	Saturated ferromagnetism and magnetization deficit in optimally annealed Ga _{1-x} Mn _x As epilayers. Physical Review B, 2002, 66, .	1.1	135
28	Maximum angle of stability in wet and dry spherical granular media. Physical Review E, 1997, 56, R6271-R6274.	0.8	133
29	Interplay between ferromagnetism, surface states, and quantum corrections in a magnetically doped topological insulator. Physical Review B, 2012, 86, .	1.1	133
30	Coexistence of Weak Ferromagnetism and Ferroelectricity in the High Pressure LiNbO_3 -Type Phase of FeTiO_3 . Physical Review Letters, 2009, 103, 047601.	2.9	132
31	Granular drag on a discrete object: Shape effects on jamming. Physical Review E, 2001, 64, 061303.	0.8	130
32	Investigation of the Field Induced Antiferromagnetic Phase Transition in the Frustrated Magnet: Gadolinium Gallium Garnet. Physical Review Letters, 1994, 73, 2500-2503.	2.9	128
33	Synthesis and characterization of superconducting single-crystal Sn nanowires. Applied Physics Letters, 2003, 83, 1620-1622.	1.5	120
34	Effective Temperature in an Interacting Vertex System: Theory and Experiment on Artificial Spin Ice. Physical Review Letters, 2010, 105, 047205.	2.9	117
35	Emergent reduced dimensionality by vertex frustration in artificial spin ice. Nature Physics, 2016, 12, 162-165.	6.5	117
36	Above-room-temperature ferromagnetism in GaSb/Mn digital alloys. Applied Physics Letters, 2002, 81, 511-513.	1.5	112

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37	Unconventional Dynamics in Triangular Heisenberg Antiferromagnet NaCrO ₂ . Physical Review Letters, 2006, 97, 167203.	2.9	109
38	Energy Minimization and ac Demagnetization in a Nanomagnet Array. Physical Review Letters, 2008, 101, 037205.	2.9	109
39	Ground State Lost but Degeneracy Found: The Effective Thermodynamics of Artificial Spin Ice. Physical Review Letters, 2007, 98, 217203.	2.9	108
40	Bridging hcp-Ni and Ni ₃ C via a Ni ₃ C _{1-x} Solid Solution: Tunable Composition and Magnetism in Colloidal Nickel Carbide Nanoparticles. Chemistry of Materials, 2011, 23, 2475-2480.	3.2	99
41	Local jamming via penetration of a granular medium. Physical Review E, 2004, 70, 041301.	0.8	98
42	Capillary Magnetic Field Flow Fractionation and Analysis of Magnetic Nanoparticles. Analytical Chemistry, 2005, 77, 5055-5062.	3.2	97
43	Experimental determination of superconducting parameters for the intermetallic perovskite superconductor MgCNi ₃ . Physical Review B, 2003, 67, .	1.1	96
44	Chemical Synthesis of Two-Dimensional Iron Chalcogenide Nanosheets: FeSe, FeTe, Fe(Se,Te), and FeTe ₂ . Chemistry of Materials, 2009, 21, 3655-3661.	3.2	95
45	Stick-slip fluctuations in granular drag. Physical Review E, 2001, 64, 031307.	0.8	94
46	Magnetic Structure and Ordering of Multiferroic Hexagonal LuFeO ₃ . Physical Review Letters, 2015, 114, 217602.	2.9	92
47	Adsorption-controlled molecular-beam epitaxial growth of BiFeO ₃ . Applied Physics Letters, 2007, 91, .	1.5	91
48	Zero-point entropy in stuffed spin-ice. Nature Physics, 2006, 2, 249-253.	6.5	89
49	Transport properties of ultra-thin VO ₂ films on (001) TiO ₂ grown by reactive molecular-beam epitaxy. Applied Physics Letters, 2015, 107, .	1.5	88
50	Two-population model for anomalous low-temperature magnetism in geometrically frustrated magnets. Physical Review B, 1997, 56, 13712-13715.	1.1	87
51	TEM-Induced Structural Evolution in Amorphous Fe Oxide Nanoparticles. Journal of the American Chemical Society, 2006, 128, 12632-12633.	6.6	87
52	Avalanche Dynamics in Wet Granular Materials. Physical Review Letters, 2002, 89, 094301.	2.9	84
53	Quantum-Classical Reentrant Relaxation Crossover in Dy ₂ Ti ₂ O ₇ Spin Ice. Physical Review Letters, 2003, 91, 107201.	2.9	82
54	Packing grains by thermal cycling. Nature, 2006, 442, 257-257.	13.7	82

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55	Magnetodielectric consequences of phase separation in the colossal magnetoresistance manganite $\text{Pr}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$. <i>Physical Review B</i> , 2005, 72, .	1.1	81
56	Spin-polarized tunneling in hybrid metal-semiconductor magnetic tunnel junctions. <i>Physical Review B</i> , 2002, 66, .	1.1	79
57	Honeycombs of triangles and magnetic frustration in Sr_2LnO_4 (L=Gd, Dy, Ho, Er, Tm, and Yb). <i>Physical Review B</i> , 2005, 71, .	1.1	79
58	Development of correlations in the dynamics of wet granular avalanches. <i>Physical Review E</i> , 2003, 67, 051303.	0.8	75
59	$\text{Ba}_2\text{LnSbO}_6$ and $\text{Sr}_2\text{LnSbO}_6$ (Ln = Dy, Ho, Gd) double perovskites: Lanthanides in the geometrically frustrating fcc lattice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 8097-8102.	3.3	75
60	Electrical and magnetic properties of $(\text{SrMnO}_3)_n \cdot (\text{LaMnO}_3)_{2n}$ superlattices. <i>Applied Physics Letters</i> , 2008, 92, 112508.	1.5	75
61	Strong supercooling and stimulation of the A-B transition in superfluid He_3 . <i>Physical Review Letters</i> , 1992, 69, 120-123.	2.9	74
62	Indications of Intrinsic Chemical and Structural Inhomogeneity in Lightly Doped $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$. <i>Physical Review Letters</i> , 2002, 88, 207205.	2.9	74
63	Low temperature magnetization of He_3 films. <i>Journal of Low Temperature Physics</i> , 1994, 94, 489-513.	0.6	72
64	Room-Temperature Chemical Synthesis of Shape-Controlled Indium Nanoparticles. <i>Journal of the American Chemical Society</i> , 2008, 130, 8140-8141.	6.6	72
65	Soft Chemical Conversion of Layered Double Hydroxides to Superparamagnetic Spinel Platelets. <i>Chemistry of Materials</i> , 2008, 20, 2374-2381.	3.2	71
66	Optical band gap and magnetic properties of unstrained EuTiO_3 films. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	68
67	Colloidal Synthesis of Non-Equilibrium Wurtzite-type MnSe . <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4638-4640.	7.2	67
68	Reversible control of magnetic interactions by electric field in a single-phase material. <i>Nature Communications</i> , 2013, 4, 1334.	5.8	67
69	Magnetic relaxation in $\text{La}_{0.25}\text{Pr}_{0.375}\text{Ca}_{0.375}\text{MnO}_3$ with varying phase separation. <i>Physical Review B</i> , 2002, 65, .	1.1	66
70	Quantum and thermal spin relaxation in the diluted spin ice $\text{Dy}_{2-x}\text{M}_x\text{Ti}_2\text{O}_7$ (M=Lu, Y). <i>Physical Review B</i> , 2004, 70, .	1.1	66
71	Demagnetization protocols for frustrated interacting nanomagnet arrays. <i>Journal of Applied Physics</i> , 2007, 101, 09J104.	1.1	66
72	Direct entropy determination and application to artificial spin ice. <i>Nature Physics</i> , 2010, 6, 786-789.	6.5	66

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73	Deliberate exotic magnetism via frustration and topology. Nature Physics, 2017, 13, 200-203.	6.5	66
74	Colossal magnetoresistance and charge order in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ (invited). Journal of Applied Physics, 1997, 81, 5337-5342.	1.1	65
75	Epitaxial growth and magnetic properties of the first five members of the layered $\text{Sr}_{n+1}\text{Ru}_n\text{O}_{3n+1}$ oxide series. Applied Physics Letters, 2007, 90, 022507.	1.5	65
76	Magnon thermal conductivity of solid He_3 in the U_2D_2 antiferromagnetic phase. Physical Review Letters, 1990, 65, 1450-1453.	2.9	63
77	Doping-induced transition from double exchange to charge order in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ near $x=0.50$. Physical Review B, 1998, 58, 5185-5188.	1.1	63
78	Intrinsic magnetic properties of hexagonal LuFeO_3 and the effects of nonstoichiometry. APL Materials, 2014, 2, 012106.	2.2	63
79	Comparing artificial frustrated magnets by tuning the symmetry of nanoscale permalloy arrays. Physical Review B, 2010, 81, .	1.1	62
80	Getting to the bottom of a granular medium. Nature, 2004, 427, 503-504.	13.7	60
81	Onset of Ferromagnetism in Low-Doped $\text{Ga}_{1-x}\text{Mn}_x\text{O}_3$. Physical Review Letters, 2007, 99, 227205.		
82	Liquid-induced transitions in granular media. Physical Review E, 1999, 60, 5823-5826.	0.8	58
83	Perpendicular Magnetization and Generic Realization of the Ising Model in Artificial Spin Ice. Physical Review Letters, 2012, 109, 087201.	2.9	58
84	Classical topological order in the kinetics of artificial spin ice. Nature Physics, 2018, 14, 723-727.	6.5	57
85	Low-temperature studies of the NMR frequency shift in superfluid He_3 . Physical Review Letters, 1992, 69, 3096-3099.	2.9	54
86	Double magnetic transition in $\text{Pr}_{0.5}\text{Sr}_{0.5}\text{CoO}_3$. Physical Review B, 2003, 68, .	1.1	54
87	Chemical Synthesis of Air-Stable Manganese Nanoparticles. Journal of the American Chemical Society, 2009, 131, 9144-9145.	6.6	54
88	Exchange biasing of the ferromagnetic semiconductor $\text{Ga}_{1-x}\text{Mn}_x\text{As}$. Applied Physics Letters, 2004, 85, 1556-1558.	1.5	53
89	Magnetic Field Induced Transitions from Spin Glass to Liquid to Long Range Order in a 3D Geometrically Frustrated Magnet. Physical Review Letters, 1999, 82, 3532-3535.	2.9	52
90	Epitaxial growth of VO_2 by periodic annealing. Applied Physics Letters, 2014, 104, .	1.5	52

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91	Frustration by design. <i>Physics Today</i> , 2016, 69, 54-59.	0.3	52
92	Quantum Phase Transition in Quasi-One-Dimensional BaRu ₆ O ₁₂ . <i>Physical Review Letters</i> , 2003, 90, 186601.	2.9	51
93	Field-induced phase coexistence in an artificial spin ice. <i>Nature Physics</i> , 2019, 15, 191-195.	6.5	49
94	Anisotropic thermal conduction in the antiferromagnetic spin-ordered phase of solid He ³ . <i>Physical Review B</i> , 1994, 49, 8790-8796.	1.1	48
95	Optimized Synthesis and Magnetic Properties of Intermetallic Au ₃ Fe ^{1-x} , Au ₃ Co ^{1-x} , and Au ₃ Ni ^{1-x} Nanoparticles. <i>Chemistry of Materials</i> , 2010, 22, 3988-3994.	3.2	48
96	Capping-induced suppression of annealing effects on Ga ^x MnAs epilayers. <i>Applied Physics Letters</i> , 2003, 83, 4568-4570.	1.5	47
97	Nonmonotonic Zero-Point Entropy in Diluted Spin Ice. <i>Physical Review Letters</i> , 2007, 99, 137203.	2.9	47
98	Magneto-optical Kerr effect studies of square artificial spin ice. <i>Physical Review B</i> , 2011, 84, .	1.1	47
99	Heat transport in a nuclear antiferromagnet. <i>Physica B: Condensed Matter</i> , 1991, 169, 204-208.	1.3	45
100	Dirty spin ice: The effect of dilution on spin freezing in Dy ₂ Ti ₂ O ₇ . <i>Physical Review B</i> , 2002, 66, .	1.1	45
101	Antisite effect on hole-mediated ferromagnetism in (Ga,Mn)As. <i>Physical Review B</i> , 2006, 74, .	1.1	45
102	Adsorption-controlled growth of BiMnO ₃ films by molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	45
103	Purification and Magnetic Interrogation of Hybrid Au ₃ O ₄ and FePt ₃ O ₄ Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9875-9879.	7.2	45
104	Low-velocity granular drag in reduced gravity. <i>Physical Review E</i> , 2011, 83, 011305.	0.8	44
105	Direct visualization of memory effects in artificial spin ice. <i>Physical Review B</i> , 2015, 92, .	1.1	44
106	Magnetization and resistivity steps in the phase separated Pr Ca Mn Ni O manganites. <i>European Physical Journal B</i> , 2002, 29, 419-424.	0.6	42
107	Magnetoresistance anomalies in (Ga,Mn)As epilayers with perpendicular magnetic anisotropy. <i>Physical Review B</i> , 2005, 71, .	1.1	42
108	Direct Solution Synthesis, Reaction Pathway Studies, and Structural Characterization of Crystalline Ni ₃ B Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008, 112, 19846-19851.	1.5	42

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109	Structural disorder and properties of the stuffed pyrochlore Ho_2TiO_5 . <i>Physical Review B</i> , 2007, 76, .	1.1	41
110	Slow Spin Relaxation in a Highly Polarized Cooperative Paramagnet. <i>Physical Review Letters</i> , 2006, 96, 027216.	2.9	40
111	Controlled Assembly of Zero-, One-, Two-, and Three-Dimensional Metal Chalcogenide Structures. <i>Inorganic Chemistry</i> , 2007, 46, 7238-7240.	1.9	40
112	Structure and magnetic properties of the Ho_2TiO_5 . <i>Physical Review B</i> , 2008, 77, .	1.1	40
113	Magnetization of He_3 on Grafoil in the low-temperature limit. <i>Physical Review Letters</i> , 1993, 71, 1403-1406.	2.9	38
114	Interaction-Induced Spin Coplanarity in a Kagomé Magnet: $\text{SrCr}_9\text{pGa}_{12}\text{pO}_{19}$. <i>Physical Review Letters</i> , 1996, 77, 2085-2088.	2.9	38
115	Geometrical magnetic frustration in rare-earth chalcogenide spinels. <i>Physical Review B</i> , 2005, 72, .	1.1	38
116	Magnetic structure and properties of the S_5Fe antiferromagnet. <i>Physical Review B</i> , 2008, 78, .	1.1	38
117	The adsorption-controlled growth of LuFe_2O_4 by molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	38
118	The physics of sand castles: maximum angle of stability in wet and dry granular media. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 266, 366-371.	1.2	36
119	Low temperature magnetism in the perovskite substrate DyScO_3 . <i>Applied Physics Letters</i> , 2009, 94, .	1.5	36
120	Magnetothermodynamics of the Ising antiferromagnet $\text{Dy}_2\text{Ti}_2\text{O}_7$. <i>Physical Review B</i> , 2008, 78, .	1.1	35
121	Artificial spin ice: Paths forward. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	35
122	Field-driven phase transitions in a quasi-two-dimensional quantum antiferromagnet. <i>New Journal of Physics</i> , 2007, 9, 31-31.	1.2	34
123	Two-carrier transport in epitaxially grown MnAs . <i>Physical Review B</i> , 2001, 64, .	1.1	33
124	Coercive field and magnetization deficit in $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ epilayers. <i>Journal of Applied Physics</i> , 2003, 93, 6784-6786.	1.1	33
125	Field-induced avalanche to the ferromagnetic state in the phase-separated ground state of manganites. <i>Physical Review B</i> , 2004, 70, .	1.1	32
126	Understanding magnetotransport signatures in networks of connected permalloy nanowires. <i>Physical Review B</i> , 2017, 95, .	1.1	32

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127	Magnetic frustration squeezed out. Nature, 2002, 420, 35-38.	13.7	31
128	Magnetothermal study of the hybrid frustrated magnet DyMn_2O_7 . Physical Review B, 2009, 80, .	1.1	31
129	Giant frequency dependence of dynamic freezing in nanocrystalline ferromagnetic $\text{LaCo}_0.5\text{Mn}_0.5\text{O}_3$. Physical Review B, 2003, 68, .	1.1	30
130	Epitaxial growth of highly-crystalline spinel ferrite thin films on perovskite substrates for all-oxide devices. Scientific Reports, 2015, 5, 10363.	1.6	30
131	A bridge to sandpile stability. Nature Physics, 2005, 1, 21-22.	6.5	29
132	Synthesis and characterization of an n=6 Aurivillius phase incorporating magnetically active manganese, $\text{Bi}_7(\text{Mn,Ti})_6\text{O}_{21}$. Applied Physics Letters, 2007, 91, 033113.	1.5	29
133	High-Frequency Dynamics Modulated by Collective Magnetization Reversal in Artificial Spin Ice. Physical Review Applied, 2017, 8, .	1.5	29
134	Time dependent effects and transport evidence for phase separation in $\text{La}_0.5\text{Ca}_0.5\text{MnO}_3$. Journal of Applied Physics, 2000, 87, 5831-5833.	1.1	28
135	Understanding thermal annealing of artificial spin ice. APL Materials, 2019, 7, .	2.2	28
136	Nucleation of the AB transition in superfluid He_3 : Surface effects and baked Alaska. Reviews of Modern Physics, 1995, 67, 491-501.	16.4	27
137	Small Angle Neutron Scattering Studies of the Vortex Lattice in the UPT_3 Mixed State: Direct Structural Evidence for the $\text{B}\hat{\uparrow}\text{C}$ Transition. Physical Review Letters, 1997, 78, 3185-3188.	2.9	27
138	Hybrid ferromagnetic/semiconductor heterostructures for spintronics. Solid State Communications, 2003, 127, 173-179.	0.9	27
139	A study of the magnetic and electrical crossover region of $\text{La}((0.5 \text{ pm } \delta))\text{Ca}((0.5 \text{ mp } \delta))\text{MnO}_3$. Journal of Physics Condensed Matter, 1999, 11, 4843-4859.	0.7	26
140	Intrinsic exchange biasing in MnAs epilayers grown on (001) GaAs. Applied Physics Letters, 2001, 78, 2530-2532.	1.5	26
141	Spin valve effect in self-exchange biased ferromagnetic metal/semiconductor bilayers. Applied Physics Letters, 2007, 91, .	1.5	26
142	Nanoengineered Curie temperature in laterally patterned ferromagnetic semiconductor heterostructures. Applied Physics Letters, 2005, 86, 152505.	1.5	25
143	Spin-ice behavior in DyMn_2O_7 . Physical Review Letters, 2005, 95, 077201.	1.1	25
144	Magnetic characterization of the sawtooth-lattice olivines $\text{Zn}_2\text{L}_2\text{S}_4$ (L=Er,Tm,Yb). Physical Review B, 2006, 73, .	1.1	24

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145	Flux through a hole from a shaken granular medium. <i>Physical Review E</i> , 2006, 74, 011306.	0.8	24
146	Noncollinear spin valve effect in ferromagnetic semiconductor trilayers. <i>Physical Review B</i> , 2007, 76, .	1.1	24
147	Comparing frustrated and unfrustrated clusters of single-domain ferromagnetic islands. <i>Physical Review B</i> , 2010, 82, .	1.1	24
148	Specific heat study of the $\text{Na}_0.3\text{CoO}_2 \cdot 1.3\text{H}_2\text{O}$ superconductor: influence of the complex chemistry. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 402, 27-30.	0.6	23
149	Tuning magnetic frustration of nanomagnets in triangular-lattice geometry. <i>Applied Physics Letters</i> , 2008, 93, 252504.	1.5	23
150	Magnetic properties of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mrow} \langle \text{mml:mtext} \text{Ba} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \langle \text{mml:mn} \langle \text{mml:mn} \rangle \langle \text{mml:msu} \rangle \rangle \rangle \rangle \rangle$ a frustrated lattice geometry. <i>Physical Review B</i> , 2010, 81, .		
151	Novel ferromagnetism in digital GaAs/Mn and GaSb/Mn alloys. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003, 16, 90-98.	1.3	21
152	External control of the direction of magnetization in ferromagnetic InMnAs/GaSb heterostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 20, 370-373.	1.3	21
153	Scaling Theory of Magnetoresistance and Carrier Localization in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:msub} \langle \text{mml:mi} \text{Ga} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mn} \langle \text{mml:mn} \rangle \langle \text{mml:mo} \hat{\sim} \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \rangle \rangle \rangle$ Physical Review Letters, 2009, 102, 137203.		
154	Granular fragility under thermal cycles. <i>Granular Matter</i> , 2009, 11, 237-242.	1.1	21
155	Ferromagnetic III-V semiconductor multilayers: Manipulation of magnetic properties by proximity effects and interface design (invited). <i>Journal of Applied Physics</i> , 2002, 91, 7490.	1.1	20
156	Effects of exchange bias on magnetotransport in permalloy kagome artificial spin ice. <i>New Journal of Physics</i> , 2015, 17, 023047.	1.2	20
157	Quantifying the Immediate Effects of the COVID-19 Pandemic on Scientists. <i>SSRN Electronic Journal</i> , 0, , .	0.4	20
158	Starting to Move through a Granular Medium. <i>Physical Review Letters</i> , 2008, 101, 108001.	2.9	19
159	Interlayer and interfacial exchange coupling in ferromagnetic metal/semiconductor heterostructures. <i>Physical Review B</i> , 2010, 81, .	1.1	19
160	Enhanced electrical and magnetic properties in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ thin films deposited on CaTiO_3 -buffered silicon substrates. <i>APL Materials</i> , 2015, 3, 062504.	2.2	19
161	Field dependent specific-heat of rare earth manganites. <i>Journal of Magnetism and Magnetic Materials</i> , 2000, 218, 191-197.	1.0	18
162	Soft spin waves in the low-temperature thermodynamics of $\text{Pr}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$. <i>Physical Review B</i> , 2000, 62, 13876-13879.	1.1	18

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163	The Zintl ion $[As_7]^{2-}$: an example of an electron-deficient As_x radical anion. Chemical Communications, 2011, 47, 3126.	2.2	18
164	Ignoring Your Neighbors: Moment Correlations Dominated by Indirect or Distant Interactions in an Ordered Nanomagnet Array. Physical Review Letters, 2011, 107, 117204.	2.9	18
165	Experimental Determination of Quantum and Centroid Capacitance in Arsenide "Antimonide" Quantum-Well MOSFETs Incorporating Nonparabolicity Effect. IEEE Transactions on Electron Devices, 2011, 58, 1397-1403.	1.6	18
166	Low-temperature dynamic freezing and the fragility of ordering in $Tb_2Sn_2O_7$. Physical Review B, 2011, 83, .	1.1	18
167	Exchange biasing of the ferromagnetic semiconductor $(Ga,Mn)As$ by MnO (invited). Journal of Applied Physics, 2005, 97, 10D304.	1.1	17
168	Magnetic response of brickwork artificial spin ice. Physical Review B, 2017, 96, .	1.1	17
169	Spin dynamics in frustrated magnets: from edge- to corner-sharing geometries. Journal of Physics Condensed Matter, 2007, 19, 145224.	0.7	16
170	Zero-point entropy of the spinel spin glasses $CuGa_2O_4$ and $CuAl_2O_4$. Journal of Physics: Conference Series, 2009, 145, 012029.	0.3	16
171	Structural and magnetic characteristics of $MnAs$ nanoclusters embedded in Be-doped $GaAs$. Physical Review B, 2011, 84, .	1.1	16
172	Solution precursor synthesis and magnetic properties of $Eu_{1-x}Ca_xTiO_3$. Journal of Solid State Chemistry, 2010, 183, 631-635.	1.4	15
173	High-temperature onset of field-induced transitions in the spin-ice compound $Dy_2Ti_2O_7$. Physical Review B, 2015, 91, .	1.1	15
174	Unusual field dependence of spin fluctuations on different timescales in $Tb_2Ti_2O_7$. Physical Review B, 2012, 86, .	1.1	15
175	Solution-Phase Synthesis and Magnetic Properties of Single-Crystal Iron Germanide Nanostructures. Chemistry of Materials, 2013, 25, 4396-4401.	3.2	15
176	Nonmonotonic residual entropy in diluted spin ice: A comparison between Monte Carlo simulations of diluted dipolar spin ice models and experimental results. Physical Review B, 2014, 90, .	1.1	15
177	Magnetically disordered phase in epitaxial iron-deficient $Dy_2Ti_2O_7$ thin films. Physical Review B, 2015, 91, .	1.1	15
178	Anomalous NMR frequency shift in the low-field phase of solid He_3 . Physical Review Letters, 1991, 67, 691-694.	2.9	14
179	Magnetic, electrical transport, and thermoelectric properties of $Sr_4Ru_3O_{10}$. Physical Review B, 2007, 75, 040407.	1.1	14
180	Evidence for a field-induced electronic phase transition at low temperatures. Physical Review B, 2007, 75, 040407.	1.1	14
180	Magneto-thermal study of a Dy-stuffed spin ice: $Dy_2(Dy_xTi_{2-x})O_7$. Physical Review B, 2008, 77, .	1.1	14

#	ARTICLE	IF	CITATIONS
181	Transition from Rolling to Jamming in Thin Granular Layers. <i>Physical Review Letters</i> , 2008, 101, 248001.	2.9	13
182	Thermal boundary conductance between the U2D2 solid and B superfluid phases of 3He. <i>Journal of Low Temperature Physics</i> , 1993, 90-90, 475-490.	0.6	12
183	Measurements of Nanoscale Domain Wall Flexing in a Ferromagnetic Thin Film. <i>Physical Review Letters</i> , 2011, 107, 077205.	2.9	12
184	Modeling relaxation and jamming in granular media. <i>Physical Review E</i> , 2001, 64, 051303.	0.8	11
185	Sharp step-like metamagnetic transition in the charge-ordered manganite compound (La _{0.3} Eu _{0.2})(Ca _{0.3} Sr _{0.2})MnO ₃ . <i>Journal of Physics Condensed Matter</i> , 2005, 17, 989-994.	0.7	11
186	Quenched crystal-field disorder and magnetic liquid ground states in Tb_2O_7 . <i>Physical Review B</i> , 2015, 91, .	1.1	11
187	Coexisting magnetic order and cooperative paramagnetism in the stuffed pyrochlore $Tb_{2+x}Ti_2^{2+}Nb_xO_7$. <i>Physical Review B</i> , 2010, 81, .	1.1	10
188	Experimental Realization of the 1D Random Field Ising Model. <i>Physical Review Letters</i> , 2021, 127, 207203.	2.9	10
189	Quasireversible magnetoresistance in exchange-spring tunnel junctions. <i>Physical Review B</i> , 2008, 78, .	1.1	9
190	Magnetoelectric Flexural Gate Transistor With Nanotesla Sensitivity. <i>Journal of Microelectromechanical Systems</i> , 2013, 22, 71-79.	1.7	9
191	A Novel, Layered Phase in Ti-rich SrTiO ₃ Epitaxial Thin Films. <i>Advanced Materials</i> , 2015, 27, 861-868.	11.1	9
192	Field-Induced Magnetic Monopole Plasma in Artificial Spin Ice. <i>Physical Review X</i> , 2021, 11, .	2.8	9
193	Field-Tunable Interactions and Frustration in Underlayer-Mediated Artificial Spin Ice. <i>Physical Review Letters</i> , 2021, 127, 117203.	2.9	9
194	String Phase in an Artificial Spin Ice. <i>Nature Communications</i> , 2021, 12, 6514.	5.8	9
195	Low-temperature magnetothermodynamics of Pr _{0.7} Ca _{0.3} MnO ₃ . <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2001, 81, 417-431.	0.6	8
196	Ferromagnetic resonance study of MnAs ₂ (Ga,Mn)As bilayers. <i>Journal of Applied Physics</i> , 2009, 105, 07C506.	1.1	8
197	Possible observation of quantum ferromagnetic fluctuations in La ₄ Ru ₆ O ₁₉ . <i>Physical Review B</i> , 2009, 80, .	1.1	8
198	Chapter 3 Nucleation of the ab transition in superfluid 3He: Experimental and theoretical considerations. <i>Progress in Low Temperature Physics</i> , 1995, 14, 159-211.	0.2	7

#	ARTICLE	IF	CITATIONS
199	Enhancement of Curie temperature in Ga _{1-x} Mn _x As epilayers grown on cross-hatched In _y Ga _{1-y} As buffer layers. Journal of Crystal Growth, 2004, 269, 298-303.	0.7	7
200	Metamagnetic steps in Eu-based manganite compounds. Journal of Applied Physics, 2005, 97, 10H710.	1.1	7
201	Width dependence of annealing effects in (Ga,Mn)As nanowires. Journal of Applied Physics, 2006, 99, 08D501.	1.1	7
202	Advanced composite high- κ gate stack for mixed anion arsenide-antimonide quantum well transistors. , 2010, , .		7
203	Characterization of switching field distributions in Ising-like magnetic arrays. Physical Review B, 2017, 95, .	1.1	7
204	Proximity-induced anisotropic magnetoresistance in magnetized topological insulators. Applied Physics Letters, 2021, 118, .	1.5	7
205	Magnetization states and switching in narrow-gapped ferromagnetic nanorings. AIP Advances, 2012, 2, .	0.6	7
206	Imaging the stochastic microstructure and dynamic development of correlations in perpendicular artificial spin ice. Physical Review Research, 2020, 2, .	1.3	7
207	Study of the low temperature thermal properties of the geometrically frustrated magnet: Gadolinium gallium garnet. Journal of Applied Physics, 1999, 85, 4512-4514.	1.1	6
208	Substrate orientation dependence of ferromagnetism in (Ga,Mn)As. Applied Physics Letters, 2008, 93, .	1.5	6
209	Monopoles on the move. Nature Physics, 2009, 5, 250-251.	6.5	6
210	The A ₂ +Mn ₅ (SO ₄) ₆ family of triangular lattice, ferrimagnetic sulfates. Journal of Solid State Chemistry, 2009, 182, 1343-1350.	1.4	6
211	From double exchange to superexchange in charge-ordering perovskite manganites. Physica B: Condensed Matter, 1997, 241-243, 418-420.	1.3	5
212	The Physical Basis of H ₃ eA ⁺ B Nucleation. Physical Review Letters, 1999, 82, 3925-3925.	2.9	5
213	Entropy-driven order in an array of nanomagnets. Nature Physics, 2022, 18, 706-712.	6.5	5
214	Thermodynamic study of excitations in a three-dimensional spin liquid. Physical Review B, 2001, 64, .	1.1	4
215	Growth and characterization of ferromagnetic Ga _{1-x} Mn _x As epilayers on (001) ZnSe. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2002, 20, 1266.	1.6	4
216	Ferromagnetic Semiconductors and Their Nanostructures: New Opportunities and Challenges. , 2000, , 211-224.		4

#	ARTICLE	IF	CITATIONS
217	Magnetic field dependent thermodynamic properties of square and quadrupolar artificial spin ice. Physical Review B, 2022, 105, .	1.1	4
218	Controlled temperature broadening of colossal magnetoresistance in a manganite heterostructure. Journal of Applied Physics, 1997, 81, 8115-8117.	1.1	3
219	Thermal studies of the spin liquid state and analog to the 4He melting curve in a geometrically frustrated magnet. Physica B: Condensed Matter, 2000, 280, 296-300.	1.3	2
220	Analog to the 4He melting curve in a model geometrically frustrated magnet. Canadian Journal of Physics, 2001, 79, 1439-1446.	0.4	2
221	Molecular-beam epitaxial growth and characterization of $(\text{In}_{0.5}\text{Al}_{0.5})_{1-x}\text{Mn}_x\text{As}$ - $(\text{In}_{0.5}\text{Ga}_{0.5})_{1-x}\text{Mn}_x\text{As}$: Thin films and superlattices. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 1304.	1.6	2
222	Growth And Magnetic Properties Of $\text{La}_2\text{NiMnO}_6$ Epitaxial Thin Films. , 2011, , .		2
223	Radiation induced nucleation of the AB transition in superfluid ^3He . Physica B: Condensed Matter, 1994, 194-196, 807-808.	1.3	1
224	Reply to "Comment on "Experimental determination of superconducting parameters for the intermetallic perovskite superconductor MgCNi_3 " Physical Review B, 2004, 69, .	1.1	1
225	Annealing Dependence of Exchange Bias in $\text{MnO}/\text{Ga}_{1-x}\text{Mn}_x\text{As}$ Heterostructures. Journal of Superconductivity and Novel Magnetism, 2006, 18, 421-426.	0.5	1
226	Low-temperature magnetothermodynamics of $\text{Pr}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2001, 81, 417-431.	0.6	1
227	Low temperature magnetization of pure ^3He films on grafoil. Physica B: Condensed Matter, 1994, 194-196, 683-684.	1.3	0
228	An Experimental Study of the Fluctuations in Granular Drag. Materials Research Society Symposia Proceedings, 2000, 627, 1.	0.1	0
229	Tunneling Magnetoresistance in Exchange Biased Ferromagnetic Semiconductor Tunnel Junctions. , 2008, , .		0
230	NMR and ^1H SR study of magnetic dilution in the triangular Heisenberg antiferromagnet NaCrO_2 . Journal of Physics: Conference Series, 2009, 145, 012042.	0.3	0
231	(Invited) Effect of Strain and Dimensionality on the Properties of Manganites. ECS Transactions, 2011, 41, 283-292.	0.3	0
232	Imaging Local Polarization and Domain Boundaries in Multiferroic $(\text{LuFeO}_3)_m/(\text{LuFe}_2\text{O}_4)_n$ Superlattices. Microscopy and Microanalysis, 2015, 21, 1303-1304.	0.2	0
233	Glassy Behavior and Time-Dependent Phenomena. Springer Series in Solid-state Sciences, 2003, , 273-285.	0.3	0