

Peter E Schiffer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5473249/publications.pdf>

Version: 2024-02-01

233
papers

18,101
citations

14655

66
h-index

13771

129
g-index

239
all docs

239
docs citations

239
times ranked

14783
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic field dependent thermodynamic properties of square and quadrupolar artificial spin ice. <i>Physical Review B</i> , 2022, 105, .	3.2	4
2	Entropy-driven order in an array of nanomagnets. <i>Nature Physics</i> , 2022, 18, 706-712.	16.7	5
3	Field-Induced Magnetic Monopole Plasma in Artificial Spin Ice. <i>Physical Review X</i> , 2021, 11, .	8.9	9
4	Artificial spin ice: Paths forward. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	35
5	Proximity-induced anisotropic magnetoresistance in magnetized topological insulators. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	7
6	Field-Tunable Interactions and Frustration in Underlayer-Mediated Artificial Spin Ice. <i>Physical Review Letters</i> , 2021, 127, 117203.	7.8	9
7	String Phase in an Artificial Spin Ice. <i>Nature Communications</i> , 2021, 12, 6514.	12.8	9
8	Experimental Realization of the 1D Random Field Ising Model. <i>Physical Review Letters</i> , 2021, 127, 207203.	7.8	10
9	Unequal effects of the COVID-19 pandemic on scientists. <i>Nature Human Behaviour</i> , 2020, 4, 880-883.	12.0	498
10	Imaging the stochastic microstructure and dynamic development of correlations in perpendicular artificial spin ice. <i>Physical Review Research</i> , 2020, 2, .	3.6	7
11	Understanding thermal annealing of artificial spin ice. <i>APL Materials</i> , 2019, 7, .	5.1	28
12	Field-induced phase coexistence in an artificial spin ice. <i>Nature Physics</i> , 2019, 15, 191-195.	16.7	49
13	Classical topological order in the kinetics of artificial spin ice. <i>Nature Physics</i> , 2018, 14, 723-727.	16.7	57
14	Understanding magnetotransport signatures in networks of connected permalloy nanowires. <i>Physical Review B</i> , 2017, 95, .	3.2	32
15	Deliberate exotic magnetism via frustration and topology. <i>Nature Physics</i> , 2017, 13, 200-203.	16.7	66
16	Characterization of switching field distributions in Ising-like magnetic arrays. <i>Physical Review B</i> , 2017, 95, .	3.2	7
17	Magnetic response of brickwork artificial spin ice. <i>Physical Review B</i> , 2017, 96, .	3.2	17
18	High-Frequency Dynamics Modulated by Collective Magnetization Reversal in Artificial Spin Ice. <i>Physical Review Applied</i> , 2017, 8, .	3.8	29

#	ARTICLE	IF	CITATIONS
19	Frustration by design. <i>Physics Today</i> , 2016, 69, 54-59.	0.3	52
20	Atomically engineered ferroic layers yield a room-temperature magnetoelectric multiferroic. <i>Nature</i> , 2016, 537, 523-527.	27.8	275
21	Emergent reduced dimensionality by vertex frustration in artificial spin ice. <i>Nature Physics</i> , 2016, 12, 162-165.	16.7	117
22	Direct visualization of memory effects in artificial spin ice. <i>Physical Review B</i> , 2015, 92, .	3.2	44
23	Transport properties of ultra-thin VO ₂ films on (001) TiO ₂ grown by reactive molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	88
24	Imaging Local Polarization and Domain Boundaries in Multiferroic (LuFeO ₃) _m /(LuFe ₂ O ₄) _n Superlattices. <i>Microscopy and Microanalysis</i> , 2015, 21, 1303-1304.	0.4	0
25	Epitaxial growth of highly-crystalline spinel ferrite thin films on perovskite substrates for all-oxide devices. <i>Scientific Reports</i> , 2015, 5, 10363.	3.3	30
26	Magnetic Structure and Ordering of Multiferroic Hexagonal LuFeO_3 . <i>Physical Review Letters</i> , 2015, 114, 217602. https://doi.org/10.1103/PhysRevLett.114.217602	7.8	92
27	Thin Quenched crystal-field disorder and magnetic liquid ground states in LuFeO_3 . <i>Physical Review B</i> , 2015, 91, .	3.2	15
28	Quenched crystal-field disorder and magnetic liquid ground states in TbMn_2O_7 . <i>Physical Review B</i> , 2015, 91, .	3.2	11
29	Effects of exchange bias on magnetotransport in permalloy kagome artificial spin ice. <i>New Journal of Physics</i> , 2015, 17, 023047.	2.9	20
30	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.	5.1	19
31	A Novel, Layered Phase in SrTiO_3 Epitaxial Thin Films. <i>Advanced Materials</i> , 2015, 27, 861-868.	21.0	9
32	Nonmonotonic residual entropy in diluted spin ice: A comparison between Monte Carlo simulations of diluted dipolar spin ice models and experimental results. <i>Physical Review B</i> , 2014, 90, .	3.2	15
33	Epitaxial growth of VO ₂ by periodic annealing. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	52
34	Intrinsic magnetic properties of hexagonal LuFeO_3 and the effects of nonstoichiometry. <i>APL Materials</i> , 2014, 2, 012106.	5.1	63
35	Emergent ice rule and magnetic charge screening from vertex frustration in artificial spin ice. <i>Nature Physics</i> , 2014, 10, 670-675.	16.7	141
36	Crystallites of magnetic charges in artificial spin ice. <i>Nature</i> , 2013, 500, 553-557.	27.8	197

#	ARTICLE	IF	CITATIONS
37	Solution-Phase Synthesis and Magnetic Properties of Single-Crystal Iron Germanide Nanostructures. Chemistry of Materials, 2013, 25, 4396-4401.	6.7	15
38	<i>Colloquium</i>: Artificial spin ice: Designing and imaging magnetic frustration. Reviews of Modern Physics, 2013, 85, 1473-1490.	45.6	407
39	Reversible control of magnetic interactions by electric field in a single-phase material. Nature Communications, 2013, 4, 1334.	12.8	67
40	Magnetoelectric Flexural Gate Transistor With Nanotesla Sensitivity. Journal of Microelectromechanical Systems, 2013, 22, 71-79.	2.5	9
41	High-temperature onset of field-induced transitions in the spin-ice compound Dy ₂ Ti ₂ O ₇ . Physical Review B, 2012, 86, .	3.2	15
42	Unusual field dependence of spin fluctuations on different timescales in Tb ₂ Ti ₂ O ₇ . Physical Review B, 2012, 86, .	3.2	15
43	Interplay between ferromagnetism, surface states, and quantum corrections in a magnetically doped topological insulator. Physical Review B, 2012, 86, .	3.2	133
44	The adsorption-controlled growth of LuFe ₂ O ₄ by molecular-beam epitaxy. Applied Physics Letters, 2012, 101, .	3.3	38
45	Perpendicular Magnetization and Generic Realization of the Ising Model in Artificial Spin Ice. Physical Review Letters, 2012, 109, 087201.	7.8	58
46	Magnetization states and switching in narrow-gapped ferromagnetic nanorings. AIP Advances, 2012, 2, .	1.3	7
47	The Zintl ion [As ₇]2 ⁻ : an example of an electron-deficient As _x radical anion. Chemical Communications, 2011, 47, 3126.	4.1	18
48	Structural and magnetic characteristics of MnAs nanoclusters embedded in Be-doped GaAs. Physical Review B, 2011, 84, .	3.2	16
49	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.	6.7	99
50	Ignoring Your Neighbors: Moment Correlations Dominated by Indirect or Distant Interactions in an Ordered Nanomagnet Array. Physical Review Letters, 2011, 107, 117204.	7.8	18
51	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.	3.0	18
52	Purification and Magnetic Interrogation of Hybrid Au ₃ O ₄ and FePt ₃ O ₄ Nanoparticles. Angewandte Chemie - International Edition, 2011, 50, 9875-9879.	13.8	45
53	Low-temperature dynamic freezing and the fragility of ordering in Tb ₂ Sn ₂ O ₇ . Physical Review B, 2011, 83, .	3.2	18
54	Measurements of Nanoscale Domain Wall Flexing in a Ferromagnetic Thin Film. Physical Review Letters, 2011, 107, 077205.	7.8	12

#	ARTICLE	IF	CITATIONS
55	Low-velocity granular drag in reduced gravity. <i>Physical Review E</i> , 2011, 83, 011305.	2.1	44
56	Magneto-optical Kerr effect studies of square artificial spin ice. <i>Physical Review B</i> , 2011, 84, .	3.2	47
57	(Invited) Effect of Strain and Dimensionality on the Properties of Manganites. <i>ECS Transactions</i> , 2011, 41, 283-292.	0.5	0
58	A strong ferroelectric ferromagnet created by means of spin-lattice coupling. <i>Nature</i> , 2011, 476, 114-114.	27.8	183
59	Growth And Magnetic Properties Of La ₂ NiMnO ₆ Epitaxial Thin Films. , 2011, , .		2
60	Colloidal Synthesis of Non-Equilibrium Wurtzite-type MnSe. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4638-4640.	13.8	67
61	Solution precursor synthesis and magnetic properties of Eu _x CaxTiO ₃ . <i>Journal of Solid State Chemistry</i> , 2010, 183, 631-635.	2.9	15
62	A strong ferroelectric ferromagnet created by means of spin-lattice coupling. <i>Nature</i> , 2010, 466, 954-958.	27.8	668
63	Direct entropy determination and application to artificial spin ice. <i>Nature Physics</i> , 2010, 6, 786-789.	16.7	66
64	Adsorption-controlled growth of BiMnO ₃ films by molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	45
65	Effective Temperature in an Interacting Vertex System: Theory and Experiment on Artificial Spin Ice. <i>Physical Review Letters</i> , 2010, 105, 047205.	7.8	117
66	Advanced composite high- κ gate stack for mixed anion arsenide-antimonide quantum well transistors. , 2010, , .		7
67	Coexisting magnetic order and cooperative paramagnetism in the stuffed pyrochlore Tb _{2+x} Ti _{2-2x} Nb _x O ₇ . <i>Physical Review B</i> , 2010, 81, .	3.2	10
68	Comparing artificial frustrated magnets by tuning the symmetry of nanoscale permalloy arrays. <i>Physical Review B</i> , 2010, 81, .	3.2	62
69	Magnetic properties of $\text{Ba}_{2-x}\text{Mn}_2\text{O}_7$ a frustrated lattice geometry. <i>Physical Review B</i> , 2010, 81, .		
70	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.	6.7	48
71	Interlayer and interfacial exchange coupling in ferromagnetic metal/semiconductor heterostructures. <i>Physical Review B</i> , 2010, 81, .	3.2	19
72	Comparing frustrated and unfrustrated clusters of single-domain ferromagnetic islands. <i>Physical Review B</i> , 2010, 82, .	3.2	24

#	ARTICLE	IF	CITATIONS
73	Magnetothermal study of the hybrid frustrated magnet $\text{Dy}_2\text{Cu}_2\text{O}_7$. Physical Review B, 2009, 80, .	3.2	31
74	Scaling Theory of Magnetoresistance and Carrier Localization in LiNbO_3 . Physical Review Letters, 2009, 102, 137203.	7.8	21
75	FeTiO_3 -Type Phase of FeTiO_3 . Physical Review Letters, 2009, 103, 047601.	7.8	132
76	Low temperature magnetism in the perovskite substrate DyScO_3 . Applied Physics Letters, 2009, 94, .	3.3	36
77	Zero-point entropy of the spinel spin glasses CuGa_2O_4 and CuAl_2O_4 . Journal of Physics: Conference Series, 2009, 145, 012029.	0.4	16
78	Granular fragility under thermal cycles. Granular Matter, 2009, 11, 237-242.	2.2	21
79	Monopoles on the move. Nature Physics, 2009, 5, 250-251.	16.7	6
80	The $\text{A}_2\text{Mn}_5(\text{SO}_4)_6$ family of triangular lattice, ferrimagnetic sulfates. Journal of Solid State Chemistry, 2009, 182, 1343-1350.	2.9	6
81	Effect of biaxial strain on the electrical and magnetic properties of (001) $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ thin films. Applied Physics Letters, 2009, 95, .	3.3	184
82	Optical band gap and magnetic properties of unstrained EuTiO_3 films. Applied Physics Letters, 2009, 94, .	3.3	68
83	Ferromagnetic resonance study of $\text{MnAs}(\text{Ga},\text{Mn})\text{As}$ bilayers. Journal of Applied Physics, 2009, 105, 07C506.	2.5	8
84	Charge-carrier localization induced by excess Fe in the superconductor $\text{Fe}_1\text{Co}_2\text{As}_2$. Physical Review B, 2009, 80, .	3.2	220
85	Chemical Synthesis of Two-Dimensional Iron Chalcogenide Nanosheets: FeSe , FeTe , $\text{Fe}(\text{Se},\text{Te})$, and FeTe_2 . Chemistry of Materials, 2009, 21, 3655-3661.	6.7	95
86	Chemical Synthesis of Air-Stable Manganese Nanoparticles. Journal of the American Chemical Society, 2009, 131, 9144-9145.	13.7	54
87	Possible observation of quantum ferromagnetic fluctuations in $\text{La}_4\text{Ru}_6\text{O}_{19}$. Physical Review B, 2009, 80, .	3.2	8
88	NMR and ^1H SR study of magnetic dilution in the triangular Heisenberg antiferromagnet NaCrO_2 . Journal of Physics: Conference Series, 2009, 145, 012042.	0.4	0
89	Soft Chemical Conversion of Layered Double Hydroxides to Superparamagnetic Spinel Platelets. Chemistry of Materials, 2008, 20, 2374-2381.	6.7	71
90	Room-Temperature Chemical Synthesis of Shape-Controlled Indium Nanoparticles. Journal of the American Chemical Society, 2008, 130, 8140-8141.	13.7	72

#	ARTICLE	IF	CITATIONS
91	Direct Solution Synthesis, Reaction Pathway Studies, and Structural Characterization of Crystalline Ni ₃ B Nanoparticles. Journal of Physical Chemistry C, 2008, 112, 19846-19851.	3.1	42
92	Substrate orientation dependence of ferromagnetism in (Ga,Mn)As. Applied Physics Letters, 2008, 93, .	3.3	6
93	Transition from Rolling to Jamming in Thin Granular Layers. Physical Review Letters, 2008, 101, 248001.	7.8	13
94	Energy Minimization and ac Demagnetization in a Nanomagnet Array. Physical Review Letters, 2008, 101, 037205.	7.8	109
95	Tuning magnetic frustration of nanomagnets in triangular-lattice geometry. Applied Physics Letters, 2008, 93, 252504.	3.3	23
96	Electrical and magnetic properties of (SrMnO ₃) _n •(LaMnO ₃) _{2n} superlattices. Applied Physics Letters, 2008, 92, 112508.	3.3	75
97	Structure and magnetic properties of the $Ho_{2-x}Mn_4$ Physical Review B, 2008, 77, .	3.2	40
98	Tunneling Magnetoresistance in Exchange Biased Ferromagnetic Semiconductor Tunnel Junctions. , 2008, , .		0
99	Quasireversible magnetoresistance in exchange-spring tunnel junctions. Physical Review B, 2008, 78, .	3.2	9
100	Magnetothermal study of a Dy-stuffed spin ice: Dy ₂ (Dy _x Ti _{2-^x})O _{7-^x} /2. Physical Review B, 2008, 77, .	3.2	14
101	Starting to Move through a Granular Medium. Physical Review Letters, 2008, 101, 108001.	7.8	19
102	Magnetothermodynamics of the Ising antiferromagnet Dy_2Mn_2 Physical Review B, 2008, 78, .	3.2	35
103	Field-driven phase transitions in a quasi-two-dimensional quantum antiferromagnet. New Journal of Physics, 2007, 9, 31-31.	2.9	34
104	Spin dynamics in frustrated magnets: from edge- to corner-sharing geometries. Journal of Physics Condensed Matter, 2007, 19, 145224.	1.8	16
105	Epitaxial growth and magnetic properties of the first five members of the layered Sr _{n+1} Ru _n O _{3n+1} oxide series. Applied Physics Letters, 2007, 90, 022507.	3.3	65
106	Spin-ice behavior in $Dy_2Mn_2Sn_2O_7$ $Sb_2Mn_2O_7$ Physical Review B, 2007, 75, .	3.2	25
107	Synthesis and characterization of an n=6 Aurivillius phase incorporating magnetically active manganese, Bi ₇ (Mn,Ti) ₆ O ₂₁ . Applied Physics Letters, 2007, 91, 033113.	3.3	29
108	Ground State Lost but Degeneracy Found: The Effective Thermodynamics of Artificial Spin Ice. Physical Review Letters, 2007, 98, 217203.	7.8	108

#	ARTICLE	IF	CITATIONS
109	Onset of Ferromagnetism in Low-Doped GaMnAs . Physical Review Letters, 2007, 99, 227205.	8.1	39
110	Adsorption-controlled molecular-beam epitaxial growth of BiFeO_3 . Applied Physics Letters, 2007, 91, .	3.3	91
111	Magnetic, electrical transport, and thermoelectric properties of SrRuO_3 . Evidence for a field-induced electronic phase transition at low temperatures. Physical Review B, 2007, .	3.2	14
112	Demagnetization protocols for frustrated interacting nanomagnet arrays. Journal of Applied Physics, 2007, 101, 09J104.	2.5	66
113	Nonmonotonic Zero-Point Entropy in Diluted Spin Ice. Physical Review Letters, 2007, 99, 137203.	7.8	47
114	Spin valve effect in self-exchange biased ferromagnetic metal/semiconductor bilayers. Applied Physics Letters, 2007, 91, .	3.3	26
115	Structural disorder and properties of the stuffed pyrochlore Ho_2TiO_5 . Physical Review B, 2007, 76, .	3.2	41
116	Noncollinear spin valve effect in ferromagnetic semiconductor trilayers. Physical Review B, 2007, 76, .	3.2	24
117	Controlled Assembly of Zero-, One-, Two-, and Three-Dimensional Metal Chalcogenide Structures. Inorganic Chemistry, 2007, 46, 7238-7240.	4.0	40
118	Magnetic structure and properties of the antiferromagnet NaMn_5As_8 .	3.2	38
119	Width dependence of annealing effects in $(\text{Ga,Mn})\text{As}$ nanowires. Journal of Applied Physics, 2006, 99, 08D501.	2.5	7
120	TEM-Induced Structural Evolution in Amorphous Fe Oxide Nanoparticles. Journal of the American Chemical Society, 2006, 128, 12632-12633.	13.7	87
121	Unconventional Dynamics in Triangular Heisenberg Antiferromagnet NaCrO_2 . Physical Review Letters, 2006, 97, 167203.	7.8	109
122	Packing grains by thermal cycling. Nature, 2006, 442, 257-257.	27.8	82
123	Zero-point entropy in stuffed spin-ice. Nature Physics, 2006, 2, 249-253.	16.7	89
124	Artificial "spin ice"™ in a geometrically frustrated lattice of nanoscale ferromagnetic islands. Nature, 2006, 439, 303-306.	27.8	729
125	Magnetic characterization of the sawtooth-lattice olivines ZnL_2S_4 (L=Er,Tm,Yb). Physical Review B, 2006, 73, .	3.2	24
126	Annealing Dependence of Exchange Bias in MnO/GaMnAs Heterostructures. Journal of Superconductivity and Novel Magnetism, 2006, 18, 421-426.	0.5	1

#	ARTICLE	IF	CITATIONS
127	Impurity Band Conduction in a High Temperature Ferromagnetic Semiconductor. Physical Review Letters, 2006, 97, 087208.	7.8	162
128	Slow Spin Relaxation in a Highly Polarized Cooperative Paramagnet. Physical Review Letters, 2006, 96, 027216.	7.8	40
129	Flux through a hole from a shaken granular medium. Physical Review E, 2006, 74, 011306.	2.1	24
130	Antisite effect on hole-mediated ferromagnetism in (Ga,Mn)As. Physical Review B, 2006, 74, .	3.2	45
131	Ferromagnetic semiconductors: moving beyond (Ga,Mn)As. Nature Materials, 2005, 4, 195-202.	27.5	654
132	A bridge to sandpile stability. Nature Physics, 2005, 1, 21-22.	16.7	29
133	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
134	Geometrical magnetic frustration in rare-earth chalcogenide spinels. Physical Review B, 2005, 72, .	3.2	38
135	Magnetoresistance anomalies in (Ga,Mn)As epilayers with perpendicular magnetic anisotropy. Physical Review B, 2005, 71, .	3.2	42
136	Nanoengineered Curie temperature in laterally patterned ferromagnetic semiconductor heterostructures. Applied Physics Letters, 2005, 86, 152505.	3.3	25
137	Sharp step-like metamagnetic transition in the charge-ordered manganite compound $(\text{La}_{0.3}\text{Eu}_{0.2})(\text{Ca}_{0.3}\text{Sr}_{0.2})\text{MnO}_3$. Journal of Physics Condensed Matter, 2005, 17, 989-994.	1.8	11
138	Metamagnetic steps in Eu-based manganite compounds. Journal of Applied Physics, 2005, 97, 10H710.	2.5	7
139	Magnetodielectric consequences of phase separation in the colossal magnetoresistance manganite $\text{Pr}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$. Physical Review B, 2005, 72, .	3.2	81
140	Honeycombs of triangles and magnetic frustration in $\text{Sr}_2\text{L}_2\text{O}_4$ (L=Gd, Dy, Ho, Er, Tm, and Yb). Physical Review B, 2005, 71, .	3.2	79
141	Capillary Magnetic Field Flow Fractionation and Analysis of Magnetic Nanoparticles. Analytical Chemistry, 2005, 77, 5055-5062.	6.5	97
142	Exchange biasing of the ferromagnetic semiconductor (Ga,Mn)As by MnO (invited). Journal of Applied Physics, 2005, 97, 10D304.	2.5	17
143	Reply to "Comment on "Experimental determination of superconducting parameters for the intermetallic perovskite superconductor MgCNi_3 " Physical Review B, 2004, 69, .	3.2	1
144	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). Physical Review B, 2004, 70, .	3.2	66

#	ARTICLE	IF	CITATIONS
145	Getting to the bottom of a granular medium. <i>Nature</i> , 2004, 427, 503-504.	27.8	60
146	Enhancement of Curie temperature in Ga _{1-x} MnxAs epilayers grown on cross-hatched InyGa _{1-y} As buffer layers. <i>Journal of Crystal Growth</i> , 2004, 269, 298-303.	1.5	7
147	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.	2.7	21
148	Specific heat study of the Na _{0.3} CoO ₂ ·1.3H ₂ O superconductor: influence of the complex chemistry. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 402, 27-30.	1.2	23
149	Local jamming via penetration of a granular medium. <i>Physical Review E</i> , 2004, 70, 041301.	2.1	98
150	Low-temperature spin freezing in the Dy ₂ Ti ₂ O ₇ spin ice. <i>Physical Review B</i> , 2004, 69, .	3.2	186
151	Field-induced avalanche to the ferromagnetic state in the phase-separated ground state of manganites. <i>Physical Review B</i> , 2004, 70, .	3.2	32
152	Exchange biasing of the ferromagnetic semiconductor Ga _{1-x} MnxAs. <i>Applied Physics Letters</i> , 2004, 85, 1556-1558.	3.3	53
153	Synthesis of Fe Oxide Core/Au Shell Nanoparticles by Iterative Hydroxylamine Seeding. <i>Nano Letters</i> , 2004, 4, 719-723.	9.1	567
154	Hybrid ferromagnetic/semiconductor heterostructures for spintronics. <i>Solid State Communications</i> , 2003, 127, 173-179.	1.9	27
155	Novel ferromagnetism in digital GaAs/Mn and GaSb/Mn alloys. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003, 16, 90-98.	2.7	21
156	Double magnetic transition in Pr _{0.5} Sr _{0.5} CoO ₃ . <i>Physical Review B</i> , 2003, 68, .	3.2	54
157	Quantum-Classical Reentrant Relaxation Crossover in Dy ₂ Ti ₂ O ₇ Spin Ice. <i>Physical Review Letters</i> , 2003, 91, 107201.	7.8	82
158	Highly enhanced Curie temperature in low-temperature annealed [Ga,Mn]As epilayers. <i>Applied Physics Letters</i> , 2003, 82, 2302-2304.	3.3	302
159	Synthesis and characterization of superconducting single-crystal Sn nanowires. <i>Applied Physics Letters</i> , 2003, 83, 1620-1622.	3.3	120
160	Capping-induced suppression of annealing effects on Ga _{1-x} MnxAs epilayers. <i>Applied Physics Letters</i> , 2003, 83, 4568-4570.	3.3	47
161	Coercive field and magnetization deficit in Ga _{1-x} MnxAs epilayers. <i>Journal of Applied Physics</i> , 2003, 93, 6784-6786.	2.5	33
162	Giant frequency dependence of dynamic freezing in nanocrystalline ferromagnetic LaCo _{0.5} Mn _{0.5} O ₃ . <i>Physical Review B</i> , 2003, 68, .	3.2	30

#	ARTICLE	IF	CITATIONS
163	Development of correlations in the dynamics of wet granular avalanches. <i>Physical Review E</i> , 2003, 67, 051303.	2.1	75
164	Quantum Phase Transition in Quasi-One-Dimensional BaRu ₆ O ₁₂ . <i>Physical Review Letters</i> , 2003, 90, 186601.	7.8	51
165	Experimental determination of superconducting parameters for the intermetallic perovskite superconductor MgCNi ₃ . <i>Physical Review B</i> , 2003, 67, .	3.2	96
166	Ba ₂ LnSbO ₆ and Sr ₂ 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.	7.1	75
167	Glassy Behavior and Time-Dependent Phenomena. <i>Springer Series in Solid-state Sciences</i> , 2003, , 273-285.	0.3	0
168	Spin-polarized tunneling in hybrid metal-semiconductor magnetic tunnel junctions. <i>Physical Review B</i> , 2002, 66, .	3.2	79
169	Dirty spin ice: The effect of dilution on spin freezing in Dy ₂ Ti ₂ O ₇ . <i>Physical Review B</i> , 2002, 66, .	3.2	45
170	Avalanche Dynamics in Wet Granular Materials. <i>Physical Review Letters</i> , 2002, 89, 094301.	7.8	84
171	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.	2.5	20
172	Above-room-temperature ferromagnetism in GaSb/Mn digital alloys. <i>Applied Physics Letters</i> , 2002, 81, 511-513.	3.3	112
173	Saturated ferromagnetism and magnetization deficit in optimally annealed Ga _{1-x} Mn _x As epilayers. <i>Physical Review B</i> , 2002, 66, .	3.2	135
174	Growth and characterization of ferromagnetic Ga _{1-x} Mn _x As epilayers on (001) ZnSe. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002, 20, 1266.	1.6	4
175	Magnetic relaxation in La _{0.25} Pr _{0.375} Ca _{0.375} MnO ₃ with varying phase separation. <i>Physical Review B</i> , 2002, 65, .	3.2	66
176	Indications of Intrinsic Chemical and Structural Inhomogeneity in Lightly Doped La _{1-x} Sr _x MnO ₃ . <i>Physical Review Letters</i> , 2002, 88, 207205.	7.8	74
177	Ultrasharp Magnetization Steps in Perovskite Manganites. <i>Physical Review Letters</i> , 2002, 89, 286602.	7.8	214
178	Magnetic frustration squeezed out. <i>Nature</i> , 2002, 420, 35-38.	27.8	31
179	Magnetization and resistivity steps in the phase separated Pr Ca Mn Ni O manganites. <i>European Physical Journal B</i> , 2002, 29, 419-424.	1.5	42
180	Thermodynamic study of excitations in a three-dimensional spin liquid. <i>Physical Review B</i> , 2001, 64, .	3.2	4

#	ARTICLE	IF	CITATIONS
181	Phase separation and low-field bulk magnetic properties of Pr _{0.7} Ca _{0.3} MnO ₃ . Physical Review B, 2001, 63, .	3.2	150
182	Low-temperature magnetothermodynamics of Pr _{0.7} Ca _{0.3} MnO ₃ . The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2001, 81, 417-431.	0.6	8
183	How ϵ -spin ice™ freezes. Nature, 2001, 413, 48-51.	27.8	243
184	Analog to the 4He melting curve in a model geometrically frustrated magnet. Canadian Journal of Physics, 2001, 79, 1439-1446.	1.1	2
185	Intrinsic exchange biasing in MnAs epilayers grown on (001) GaAs. Applied Physics Letters, 2001, 78, 2530-2532.	3.3	26
186	Two-carrier transport in epitaxially grown MnAs. Physical Review B, 2001, 64, .	3.2	33
187	Modeling relaxation and jamming in granular media. Physical Review E, 2001, 64, 051303.	2.1	11
188	Effects of annealing time on defect-controlled ferromagnetism in Ga _{1-x} MnxAs. Applied Physics Letters, 2001, 79, 1495-1497.	3.3	319
189	Granular drag on a discrete object: Shape effects on jamming. Physical Review E, 2001, 64, 061303.	2.1	130
190	Stick-slip fluctuations in granular drag. Physical Review E, 2001, 64, 031307.	2.1	94
191	Low-temperature magnetothermodynamics of Pr _{0.7} Ca _{0.3} MnO ₃ . The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2001, 81, 417-431.	0.6	1
192	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.	2.7	2
193	Field dependent specific-heat of rare earth manganites. Journal of Magnetism and Magnetic Materials, 2000, 218, 191-197.	2.3	18
194	An Experimental Study of the Fluctuations in Granular Drag. Materials Research Society Symposia Proceedings, 2000, 627, 1.	0.1	0
195	Jamming and Fluctuations in Granular Drag. Physical Review Letters, 2000, 84, 5122-5125.	7.8	139
196	Soft spin waves in the low-temperature thermodynamics of Pr _{0.7} Ca _{0.3} MnO ₃ . Physical Review B, 2000, 62, 13876-13879.	3.2	18
197	Time dependent effects and transport evidence for phase separation in La _{0.5} Ca _{0.5} MnO ₃ . Journal of Applied Physics, 2000, 87, 5831-5833.	2.5	28
198	Ferromagnetic Semiconductors and Their Nanostructures: New Opportunities and Challenges. , 2000, , 211-224.		4

#	ARTICLE	IF	CITATIONS
199	Magnetic Field Induced Transitions from Spin Glass to Liquid to Long Range Order in a 3D Geometrically Frustrated Magnet. <i>Physical Review Letters</i> , 1999, 82, 3532-3535.	7.8	52
200	Study of the low temperature thermal properties of the geometrically frustrated magnet: Gadolinium gallium garnet. <i>Journal of Applied Physics</i> , 1999, 85, 4512-4514.	2.5	6
201	The Physical Basis of ^3He Nucleation. <i>Physical Review Letters</i> , 1999, 82, 3925-3925.	7.8	5
202	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.	2.6	36
203	Slow Drag in a Granular Medium. <i>Physical Review Letters</i> , 1999, 82, 205-208.	7.8	286
204	Liquid-induced transitions in granular media. <i>Physical Review E</i> , 1999, 60, 5823-5826.	2.1	58
205	A study of the magnetic and electrical crossover region of $\text{La}_{(0.5-\delta)}\text{Ca}_{(0.5+\delta)}\text{MnO}_3$. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 4843-4859.	1.8	26
206	Doping-induced transition from double exchange to charge order in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ near $x=0.50$. <i>Physical Review B</i> , 1998, 58, 5185-5188.	3.2	63
207	Small Angle Neutron Scattering Studies of the Vortex Lattice in the LiPt_3 Mixed State: Direct Structural Evidence for the $\text{B}^{\uparrow}\text{C}$ Transition. <i>Physical Review Letters</i> , 1997, 78, 3185-3188.	7.8	27
208	Maximum angle of stability in wet and dry spherical granular media. <i>Physical Review E</i> , 1997, 56, R6271-R6274.	2.1	133
209	Controlled temperature broadening of colossal magnetoresistance in a manganite heterostructure. <i>Journal of Applied Physics</i> , 1997, 81, 8115-8117.	2.5	3
210	Transport mechanisms in doped LaMnO_3 : Evidence for polaron formation. <i>Physical Review B</i> , 1997, 56, 5104-5107.	3.2	157
211	Colossal magnetoresistance and charge order in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ (invited). <i>Journal of Applied Physics</i> , 1997, 81, 5337-5342.	2.5	65
212	Two-population model for anomalous low-temperature magnetism in geometrically frustrated magnets. <i>Physical Review B</i> , 1997, 56, 13712-13715.	3.2	87
213	What keeps sandcastles standing?. <i>Nature</i> , 1997, 387, 765-765.	27.8	273
214	From double exchange to superexchange in charge-ordering perovskite manganites. <i>Physica B: Condensed Matter</i> , 1997, 241-243, 418-420.	2.7	5
215	Thermodynamic and Electron Diffraction Signatures of Charge and Spin Ordering in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$. <i>Physical Review Letters</i> , 1996, 76, 3188-3191.	7.8	434
216	Interaction-Induced Spin Coplanarity in a Kagomé Magnet: $\text{SrCr}_9\text{pGa}_{12-9\text{p}}\text{O}_{19}$. <i>Physical Review Letters</i> , 1996, 77, 2085-2088.	7.8	38

#	ARTICLE	IF	CITATIONS
217	Chapter 3 Nucleation of the ab transition in superfluid 3He: Experimental and theoretical considerations. Progress in Low Temperature Physics, 1995, 14, 159-211.	0.2	7
218	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.	7.8	2,081
219	Nucleation of the AB transition in superfluid He3: Surface effects and baked Alaska. Reviews of Modern Physics, 1995, 67, 491-501.	45.6	27
220	Frustration Induced Spin Freezing in a Site-Ordered Magnet: Gadolinium Gallium Garnet. Physical Review Letters, 1995, 74, 2379-2382.	7.8	167
221	Anisotropic thermal conduction in the antiferromagnetic spin-ordered phase of solid He3. Physical Review B, 1994, 49, 8790-8796.	3.2	48
222	Low temperature magnetization of ^3He films. Journal of Low Temperature Physics, 1994, 94, 489-513.	1.4	72
223	Low temperature magnetization of pure ^3He films on grafoil. Physica B: Condensed Matter, 1994, 194-196, 683-684.	2.7	0
224	Radiation induced nucleation of the AB transition in superfluid ^3He . Physica B: Condensed Matter, 1994, 194-196, 807-808.	2.7	1
225	Investigation of the Field Induced Antiferromagnetic Phase Transition in the Frustrated Magnet: Gadolinium Gallium Garnet. Physical Review Letters, 1994, 73, 2500-2503.	7.8	128
226	Thermal boundary conductance between the U2D2 solid and B superfluid phases of ^3He . Journal of Low Temperature Physics, 1993, 90-90, 475-490.	1.4	12
227	Magnetization of ^3He on Grafoil in the low-temperature limit. Physical Review Letters, 1993, 71, 1403-1406.	7.8	38
228	Low-temperature studies of the NMR frequency shift in superfluid ^3He . Physical Review Letters, 1992, 69, 3096-3099.	7.8	54
229	Strong supercooling and stimulation of the A-B transition in superfluid He3. Physical Review Letters, 1992, 69, 120-123.	7.8	74
230	Heat transport in a nuclear antiferromagnet. Physica B: Condensed Matter, 1991, 169, 204-208.	2.7	45
231	Anomalous NMR frequency shift in the low-field phase of solid He3. Physical Review Letters, 1991, 67, 691-694.	7.8	14
232	Magnon thermal conductivity of solid He3 in the U2D2 antiferromagnetic phase. Physical Review Letters, 1990, 65, 1450-1453.	7.8	63
233	Quantifying the Immediate Effects of the COVID-19 Pandemic on Scientists. SSRN Electronic Journal, 0, , .	0.4	20