

Daniel Silevitch

List of Publications by Year in descending order

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Version: 2024-02-01

35

papers

756

citations

567281

15

h-index

501196

28

g-index

35

all docs

35

docs citations

35

times ranked

1188

citing authors

#	ARTICLE	IF	CITATIONS
1	Origins of bad-metal conductivity and the insulator–metal transition in the rare-earth nickelates. Nature Physics, 2014, 10, 304-307.	16.7	143
2	A ferromagnet in a continuously tunable random field. Nature, 2007, 448, 567-570.	27.8	63
3	Quantum and Classical Glass Transitions in $\text{LiHo}_{x-y}\text{Y}_{y+z}\text{Sm}_{z+1}$. Hall effect measurements on epitaxial SmNiO_3 thin films and implications for antiferromagnetism. Physical Review B, 2013, 87, .	7.8	63
4	Charge transfer and multiple density waves in the rare earth tellurides. Physical Review B, 2013, 87, .	3.2	55
5	Crystallization of spin superlattices with pressure and field in the layered magnet $\text{SrCu}_2(\text{BO}_3)_2$. Nature Communications, 2016, 7, 11956.	12.8	40
6	Linear magnetoresistance in the low-field limit in density-wave materials. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11201-11206.	7.1	34
7	Itinerant density wave instabilities at classical and quantum critical points. Nature Physics, 2015, 11, 865-871.	16.7	31
8	Incommensurate antiferromagnetism in a pure spin system via cooperative organization of local and itinerant moments. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3287-3292.	7.1	29
9	Switchable hardening of a ferromagnet at fixed temperature. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2797-2800.	7.1	23
10	Emergence of long-range order in sheets of magnetic dimers. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14372-14377.	7.1	23
11	Bosonic topological insulator intermediate state in the superconductor-insulator transition. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126570.	2.1	23
12	Discovery of quantum phases in the Shastry-Sutherland compound $\text{SrCu}_2(\text{BO}_3)_2$ under extreme conditions of field and pressure. Nature Communications, 2022, 13, 2301.	12.8	23
13	Using thermal boundary conditions to engineer the quantum state of a bulk magnet. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3689-3694.	7.1	22
14	Antisymmetric linear magnetoresistance and the planar Hall effect. Nature Communications, 2020, 11, 216.	12.8	21
15	A compact bellows-driven diamond anvil cell for high-pressure, low-temperature magnetic measurements. Review of Scientific Instruments, 2014, 85, 033901.	1.3	15
16	Discovery of highly polarizable semiconductors BaZrS_3 and $\text{Ba}_3\text{Zr}_2\text{S}_7$. Physical Review Materials, 2020, 4, .	2.4	15
17	Tuning high-Q nonlinear dynamics in a disordered quantum magnet. Nature Communications, 2019, 10, 4001.	12.8	13

#	ARTICLE		IF	CITATIONS
19	Quantum Projection in an Ising Spin Liquid. Physical Review Letters, 2007, 99, 057203.		7.8	12
20	Evolution of incommensurate spin order with magnetic field and temperature in the itinerant antiferromagnet GdSi. Physical Review B, 2013, 88, .		3.2	11
21	Barkhausen noise in the random field Ising magnet $\text{B} \propto N^{-\frac{1}{3}}$. Physical Review B, 2015, 92, .			
22	Sub-Kelvin magnetic and electrical measurements in a diamond anvil cell with <i>in situ</i> tunability. Review of Scientific Instruments, 2015, 86, 093901.		1.3	7
23	A continuous metal-insulator transition driven by spin correlations. Nature Communications, 2021, 12, 2779.		12.8	7
24	Direct probe of Fermi surface evolution across a pressure-induced quantum phase transition. Physical Review B, 2015, 91, .		3.2	6
25	Contribution of spin pairs to the magnetic response in a dilute dipolar ferromagnet. Physical Review B, 2012, 86, .		3.2	5
26	Optical Raman measurements of low frequency magnons under high pressure. Review of Scientific Instruments, 2020, 91, 113902.		1.3	5
27	Magnetic domain dynamics in an insulating quantum ferromagnet. Physical Review B, 2019, 100, .		3.2	4
28	Direct Observation of Collective Electronuclear Modes about a Quantum Critical Point. Physical Review Letters, 2021, 127, 207202.		7.8	4
29	Magnetic order, disorder, and excitations under pressure in the Mott insulator $\text{Sr}^{2-x}\text{mnn}_x$. Physical Review B, 2021, 104, .			
30	Reply to Zayed: Interplay of magnetism and structure in the Shastry-Sutherland model. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E383-E384.		7.1	1
31	Quantum tunneling vs. thermal effects in experiments on adiabatic quantum computing. European Physical Journal: Special Topics, 2015, 224, 25-34.		2.6	1
32	Quantum dynamics in strongly driven random dipolar magnets. Physical Review B, 2020, 101, .		3.2	1
33	Supercapacitance and superinductance of TiN and NbTiN films in the vicinity of superconductor-to-insulator transition. Scientific Reports, 2021, 11, 16181.		3.3	1
34	Multiple superconducting states induced by pressure in $\text{Mo}_{2-x}\text{mnn}_x$. Physical Review B, 2017, 95, .			
35	High-pressure control of optical nonlinearity in the polar Weyl semimetal TaAs. Physical Review B, 2022, 106, .		3.2	0