

# Daniel Silevitch

## List of Publications by Year in descending order

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35  
papers

756  
citations

567281

15  
h-index

501196

28  
g-index

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all docs

35  
docs citations

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times ranked

1188  
citing authors

#	ARTICLE	IF	CITATIONS
1	Discovery of quantum phases in the Shastry-Sutherland compound SrCu <sub>2</sub> (BO <sub>3</sub> ) <sub>2</sub> under extreme conditions of field and pressure. Nature Communications, 2022, 13, 2301.	12.8	23
2	High-pressure control of optical nonlinearity in the polar Weyl semimetal TaAs. Physical Review B, 2022, 106, .	3.2	0
3	A continuous metal-insulator transition driven by spin correlations. Nature Communications, 2021, 12, 2779.	12.8	7
4	Supercapacitance and superinductance of TiN and NbTiN films in the vicinity of superconductor-to-insulator transition. Scientific Reports, 2021, 11, 16181.	3.3	1
5	Magnetic order, disorder, and excitations under pressure in the Mott insulator $\text{Sr}_2\text{VO}_4$ . Physical Review B, 2021, 104, .	2.1	2
6	Direct Observation of Collective Electronuclear Modes about a Quantum Critical Point. Physical Review Letters, 2021, 127, 207202.	7.8	4
7	Quantum dynamics in strongly driven random dipolar magnets. Physical Review B, 2020, 101, .	3.2	1
8	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
9	Antisymmetric linear magnetoresistance and the planar Hall effect. Nature Communications, 2020, 11, 216.	12.8	21
10	Discovery of highly polarizable semiconductors BaZrS <sub>3</sub> and Ba <sub>3</sub> Zr <sub>2</sub> S <sub>7</sub> . Physical Review Materials, 2020, 4, .	2.4	15
11	Optical Raman measurements of low frequency magnons under high pressure. Review of Scientific Instruments, 2020, 91, 113902.	1.3	5
12	Tuning high-Q nonlinear dynamics in a disordered quantum magnet. Nature Communications, 2019, 10, 4001.	12.8	13
13	Magnetic domain dynamics in an insulating quantum ferromagnet. Physical Review B, 2019, 100, .	3.2	4
14	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
15	Multiple superconducting states induced by pressure in $\text{Mo}_3\text{S}_7\text{C}_2$ . Physical Review B, 2017, 95, .	2.1	2
16	Crystallization of spin superlattices with pressure and field in the layered magnet SrCu <sub>2</sub> (BO <sub>3</sub> ) <sub>2</sub> . Nature Communications, 2016, 7, 11956.	12.8	40
17	Barkhausen noise in the random field Ising magnet $\text{Nd}_2\text{B}_4\text{C}_2$ . Physical Review B, 2015, 92, .	3.3	2
18	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

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19	Direct probe of Fermi surface evolution across a pressure-induced quantum phase transition. <i>Physical Review B</i> , 2015, 91, .	3.2	6
20	Reply to Zayed: Interplay of magnetism and structure in the Shastryâ€“Sutherland model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E383-E384.	7.1	1
21	Itinerant density wave instabilities at classical and quantum critical points. <i>Nature Physics</i> , 2015, 11, 865-871.	16.7	31
22	Quantum tunneling vs. thermal effects in experiments on adiabatic quantum computing. <i>European Physical Journal: Special Topics</i> , 2015, 224, 25-34.	2.6	1
23	Using thermal boundary conditions to engineer the quantum state of a bulk magnet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3689-3694.	7.1	22
24	A compact bellows-driven diamond anvil cell for high-pressure, low-temperature magnetic measurements. <i>Review of Scientific Instruments</i> , 2014, 85, 033901.	1.3	15
25	Origins of bad-metal conductivity and the insulatorâ€“metal transition in the rare-earth nickelates. <i>Nature Physics</i> , 2014, 10, 304-307.	16.7	143
26	Emergence of long-range order in sheets of magnetic dimers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14372-14377.	7.1	23
27	Evolution of incommensurate spin order with magnetic field and temperature in the itinerant antiferromagnet GdSi. <i>Physical Review B</i> , 2013, 88, .	3.2	11
28	Charge transfer and multiple density waves in the rare earth tellurides. <i>Physical Review B</i> , 2013, 87, .	3.2	46
29	Incommensurate antiferromagnetism in a pure spin system via cooperative organization of local and itinerant moments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3287-3292.	7.1	29
30	Hall effect measurements on epitaxial SmNiO $\times$ thin films and implications for antiferromagnetism. <i>Physical Review B</i> , 2013, 87, .	3.2	55
31	Contribution of spin pairs to the magnetic response in a dilute dipolar ferromagnet. <i>Physical Review B</i> , 2012, 86, .	3.2	5
32	Switchable hardening of a ferromagnet at fixed temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 2797-2800.	7.1	23
33	<a href="http://www.w3.org/1998/Math/MathML">Quantum and Classical Glass Transitions in Incommensurate</a> $Y_{1-x}Li_xHo_x$ $F_4$ thin films and implications for antiferromagnetism. <i>Physical Review Letters</i> , 2008, 101, 057201.	7.8	63
34	Quantum Projection in an Ising Spin Liquid. <i>Physical Review Letters</i> , 2007, 99, 057203.	7.8	12
35	A ferromagnet in a continuously tunable random field. <i>Nature</i> , 2007, 448, 567-570.	27.8	63