

# Jonathan R Friedman

## List of Publications by Year in descending order

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47  
papers

3,747  
citations

361045

20  
h-index

315357

38  
g-index

48  
all docs

48  
docs citations

48  
times ranked

2643  
citing authors

#	ARTICLE	IF	CITATIONS
1	Myriam P. Sarachik: Extraordinary physicist, indomitable spirit, enduring legacy. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	0
2	Adjustable coupling and in situ variable frequency electron paramagnetic resonance probe with loop-gap resonators for spectroscopy up to X-band. Review of Scientific Instruments, 2020, 91, 023104.	0.6	0
3	Constructing clock-transition-based two-qubit gates from dimers of molecular nanomagnets. Physical Review Research, 2020, 2, .	1.3	10
4	Direct spectroscopic observation of Berry-phase interference in the $\text{Ni}^{4+}$ single-molecule magnet. Physical Review B, 2020, 102, .	1.1	2
5	A Clock Transition in the Cr7Mn Molecular Nanomagnet. Magnetochemistry, 2019, 5, 4.	1.0	12
6	Effects of uniaxial pressure on the quantum tunneling of magnetization in a high-symmetry Mn12 single-molecule magnet. Physical Review B, 2017, 95, .	1.1	7
7	Precision ESR measurements of transverse anisotropy in the single-molecule magnet $\text{Ni}^{4+}$ . Physical Review B, 2016, 94, .	2.9	10
8	Observation of Tunneling-Assisted Highly Forbidden Single-Photon Transitions in a $\text{Ni}^{4+}$ Single-Molecule Magnet. Physical Review Letters, 2016, 117, 187202.	2.9	10
9	Copper(II) coordination compounds with sterically constraining pyrenyl nitronyl nitroxide and imino nitroxide. Polyhedron, 2016, 117, 7-13.	1.0	8
10	Rigid Core Anthracene and Anthraquinone Linked Nitronyl and Iminoyl Nitroxide Biradicals. Crystal Growth and Design, 2016, 16, 4051-4059.	1.4	10
11	Instrument for in-situ orientation of superconducting thin-film resonators used for electron-spin resonance experiments. Review of Scientific Instruments, 2015, 86, 014702.	0.6	0
12	10.1063/1.4905176.1. , 2015, , .		0
13	Collective Coupling of a Macroscopic Number of Single-Molecule Magnets with a Microwave Cavity Mode. Physical Review Letters, 2014, 112, 120501.	2.9	24
14	The effect of uniaxial pressure on the magnetic anisotropy of the $\text{Mn}^{12}$ -Ac single-molecule magnet. Europhysics Letters, 2013, 102, 47008.	0.7	3
15	Geometric-Phase Interference in a $\text{Mn}^{12}$ Single-Molecule Magnet with Fourfold Rotational Symmetry. Physical Review Letters, 2013, 110, 087205.	2.9	21
16	Radicals organized by disk shaped aromatics "polymorphism and co-crystals that tune inter-electron exchange. CrystEngComm, 2012, 14, 1515-1526.	1.3	20
17	Single-Molecule Nanomagnets. Annual Review of Condensed Matter Physics, 2010, 1, 109-128.	5.2	116
18	Geometric-phase-effect tunnel-splitting oscillations in single-molecule magnets with fourth-order anisotropy induced by orthorhombic distortion. Europhysics Letters, 2009, 86, 27002.	0.7	19

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19	Radiation- and phonon-bottleneck--induced tunneling in the Fe <sub>8</sub> single-molecule magnet. Europhysics Letters, 2008, 82, 17005.	0.7	20
20	Photon-induced magnetization changes in single-molecule magnets (invited). Journal of Applied Physics, 2006, 99, 08D103.	1.1	16
21	Measurement of magnetization dynamics in single-molecule magnets induced by pulsed millimeter-wave radiation. Journal of Applied Physics, 2006, 99, 08D102.	1.1	2
22	Non-equilibrium magnetization dynamics in the Fe <sub>8</sub> single-molecule magnet induced by high-intensity microwave radiation. Europhysics Letters, 2005, 71, 110-116.	0.7	21
23	Experimental upper bound on superradiance emission from Mn <sub>12</sub> acetate. Physical Review B, 2004, 70, .	1.1	20
24	Photon-induced magnetization reversal in the Fe <sub>8</sub> single-molecule magnet. Physical Review B, 2004, 70, .	1.1	31
25	Aharonov-Casher Effect Suppression of Macroscopic Flux Tunneling. , 2004, , 23-30.		0
26	Aharonov-Casher-Effect Suppression of Macroscopic Tunneling of Magnetic Flux. Physical Review Letters, 2002, 88, 050403.	2.9	60
27	New vision of magnetic tunnelling. Physics World, 2002, 15, 22-23.	0.0	0
28	Macroscopic Quantum Coherence in an Rf-SQUID. , 2001, , 7-16.		0
29	More on "Why Do They Leave Physics?"™: Money Matters, Research and Job Opportunities. Physics Today, 2000, 53, 15-17.	0.3	0
30	Quantum superposition of distinct macroscopic states. Nature, 2000, 406, 43-46.	13.7	995
31	Macroscopic resonant tunneling of magnetic flux. Physical Review B, 2000, 62, 11802-11811.	1.1	32
32	Macroscopic Quantum Coherence in a Magnetic Nanoparticle Above the Surface of a Superconductor. Physical Review Letters, 2000, 85, 5206-5209.	2.9	12
33	Resonant Magnetization Tunneling in the Molecular Magnet Mn <sub>12</sub> Acetate. Journal of Superconductivity and Novel Magnetism, 1999, 12, 689-693.	0.5	2
34	Inelastic neutron scattering study of Mn <sub>12</sub> acetate. Journal of Applied Physics, 1999, 85, 5636-5638.	1.1	56
35	Observation of strong Coulomb blockade in resistively isolated tunnel junctions. Solid State Communications, 1998, 108, 839-843.	0.9	23
36	Quantum tunneling and classical barrier reduction for a mesoscopic spin. Physical Review B, 1998, 57, 10291-10294.	1.1	23

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37	Magnetic properties of diluted magnetic(Gd,Lu) <sub>2</sub> O <sub>3</sub> . Physical Review B, 1998, 58, 3212-3217.	1.1	21
38	Resonant magnetization tunneling inMn <sub>12</sub> acetate: The absence of inhomogeneous hyperfine broadening. Physical Review B, 1998, 58, R14729-R14732.	1.1	26
39	Evidence for resonant tunneling of magnetization inMn <sub>12</sub> sacetate complex. Physical Review B, 1997, 55, 5858-5865.	1.1	126
40	Anomalous magnetic relaxation in ferritin. Physical Review B, 1997, 56, 10793-10796.	1.1	44
41	Effect of a transverse magnetic field on resonant magnetization tunneling in high-spin molecules. Journal of Applied Physics, 1997, 81, 3978-3980.	1.1	52
42	Steps in the hysteresis loops of a high-spin molecule. Journal of Applied Physics, 1996, 79, 6031.	1.1	110
43	Macroscopic Measurement of Resonant Magnetization Tunneling in High-Spin Molecules. Physical Review Letters, 1996, 76, 3830-3833.	2.9	1,730
44	Resonant tunneling of magnetization in Mn <sub>12</sub> acetate complex. European Physical Journal D, 1996, 46, 2135-2136.	0.4	0
45	Magnetic-field-induced crossover from Mott variable-range hopping to weakly insulating behavior. Physical Review B, 1996, 53, 9528-9531.	1.1	22
46	Hopping conduction in doped silicon: The apparent absence of quantum interference. Physical Review B, 1993, 48, 4875-4878.	1.1	12
47	Reexamination of tests of the Wannier threshold law for two-electron escape. Physical Review A, 1992, 46, 652-655.	1.0	25