

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	Macroscopic Measurement of Resonant Magnetization Tunneling in High-Spin Molecules. <i>Physical Review Letters</i> , 1996, 76, 3830-3833.	2.9	1,730
2	Quantum superposition of distinct macroscopic states. <i>Nature</i> , 2000, 406, 43-46.	13.7	995
3	Evidence for resonant tunneling of magnetization in Mn ₁₂ acetate complex. <i>Physical Review B</i> , 1997, 55, 5858-5865.	1.1	126
4	Single-Molecule Nanomagnets. <i>Annual Review of Condensed Matter Physics</i> , 2010, 1, 109-128.	5.2	116
5	Steps in the hysteresis loops of a high-spin molecule. <i>Journal of Applied Physics</i> , 1996, 79, 6031.	1.1	110
6	Aharonov-Casher-Effect Suppression of Macroscopic Tunneling of Magnetic Flux. <i>Physical Review Letters</i> , 2002, 88, 050403.	2.9	60
7	Inelastic neutron scattering study of Mn ₁₂ acetate. <i>Journal of Applied Physics</i> , 1999, 85, 5636-5638.	1.1	56
8	Effect of a transverse magnetic field on resonant magnetization tunneling in high-spin molecules. <i>Journal of Applied Physics</i> , 1997, 81, 3978-3980.	1.1	52
9	Anomalous magnetic relaxation in ferritin. <i>Physical Review B</i> , 1997, 56, 10793-10796.	1.1	44
10	Macroscopic resonant tunneling of magnetic flux. <i>Physical Review B</i> , 2000, 62, 11802-11811.	1.1	32
11	Photon-induced magnetization reversal in the Fe ₈ single-molecule magnet. <i>Physical Review B</i> , 2004, 70, .	1.1	31
12	Resonant magnetization tunneling in Mn ₁₂ acetate: The absence of inhomogeneous hyperfine broadening. <i>Physical Review B</i> , 1998, 58, R14729-R14732.	1.1	26
13	Reexamination of tests of the Wannier threshold law for two-electron escape. <i>Physical Review A</i> , 1992, 46, 652-655.	1.0	25
14	Collective Coupling of a Macroscopic Number of Single-Molecule Magnets with a Microwave Cavity Mode. <i>Physical Review Letters</i> , 2014, 112, 120501.	2.9	24
15	Observation of strong Coulomb blockade in resistively isolated tunnel junctions. <i>Solid State Communications</i> , 1998, 108, 839-843.	0.9	23
16	Quantum tunneling and classical barrier reduction for a mesoscopic spin. <i>Physical Review B</i> , 1998, 57, 10291-10294.	1.1	23
17	Magnetic-field-induced crossover from Mott variable-range hopping to weakly insulating behavior. <i>Physical Review B</i> , 1996, 53, 9528-9531.	1.1	22
18	Magnetic properties of diluted magnetic (Gd,Lu) ₂ O ₃ . <i>Physical Review B</i> , 1998, 58, 3212-3217.	1.1	21

#	ARTICLE	IF	CITATIONS
19	Non-equilibrium magnetization dynamics in the Fe ₈ single-molecule magnet induced by high-intensity microwave radiation. <i>Europhysics Letters</i> , 2005, 71, 110-116.	0.7	21
20	Geometric-Phase Interference in a M_n Single-Molecule Magnet with Fourfold Rotational Symmetry. <i>Physical Review Letters</i> , 2013, 110, 087205.	2.9	21
21	Experimental upper bound on superradiance emission from Mn ₁₂ acetate. <i>Physical Review B</i> , 2004, 70, .	1.1	20
22	Radiation- and phonon-bottleneck-induced tunneling in the Fe ₈ single-molecule magnet. <i>Europhysics Letters</i> , 2008, 82, 17005.	0.7	20
23	Radicals organized by disk shaped aromatics " polymorphism and co-crystals that tune inter-electron exchange. <i>CrystEngComm</i> , 2012, 14, 1515-1526.	1.3	20
24	Geometric-phase-effect tunnel-splitting oscillations in single-molecule magnets with fourth-order anisotropy induced by orthorhombic distortion. <i>Europhysics Letters</i> , 2009, 86, 27002.	0.7	19
25	Photon-induced magnetization changes in single-molecule magnets (invited). <i>Journal of Applied Physics</i> , 2006, 99, 08D103.	1.1	16
26	Hopping conduction in doped silicon: The apparent absence of quantum interference. <i>Physical Review B</i> , 1993, 48, 4875-4878.	1.1	12
27	Macroscopic Quantum Coherence in a Magnetic Nanoparticle Above the Surface of a Superconductor. <i>Physical Review Letters</i> , 2000, 85, 5206-5209.	2.9	12
28	A Clock Transition in the Cr ₇ Mn Molecular Nanomagnet. <i>Magnetochemistry</i> , 2019, 5, 4.	1.0	12
29	Observation of Tunneling-Assisted Highly Forbidden Single-Photon Transitions in a Ni ₄ Single-Molecule Magnet. <i>Physical Review Letters</i> , 2016, 117, 187202.	2.9	10
30	Rigid Core Anthracene and Anthraquinone Linked Nitronyl and Iminoyl Nitroxide Biradicals. <i>Crystal Growth and Design</i> , 2016, 16, 4051-4059.	1.4	10
31	Constructing clock-transition-based two-qubit gates from dimers of molecular nanomagnets. <i>Physical Review Research</i> , 2020, 2, .	1.3	10
32	Copper(II) coordination compounds with sterically constraining pyrenyl nitronyl nitroxide and imino nitroxide. <i>Polyhedron</i> , 2016, 117, 7-13.	1.0	8
33	Effects of uniaxial pressure on the quantum tunneling of magnetization in a high-symmetry Mn ₁₂ single-molecule magnet. <i>Physical Review B</i> , 2017, 95, .	1.1	7
34	Precision ESR measurements of transverse anisotropy in the single-molecule magnet Ni ₄ . <i>Physical Review B</i> , 2016, 94, .	1.1	7
35	The effect of uniaxial pressure on the magnetic anisotropy of the Mn ₁₂ single-molecule magnet. <i>Europhysics Letters</i> , 2013, 102, 47008.	0.7	3
36	Resonant Magnetization Tunneling in the Molecular Magnet Mn ₁₂ Acetate. <i>Journal of Superconductivity and Novel Magnetism</i> , 1999, 12, 689-693.	0.5	2

#	ARTICLE	IF	CITATIONS
37	Measurement of magnetization dynamics in single-molecule magnets induced by pulsed millimeter-wave radiation. Journal of Applied Physics, 2006, 99, 08D102.	1.1	2
38	Direct spectroscopic observation of Berry-phase interference in the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle \text{Ni} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ single-molecule magnet. Physical Review B, 2020, 102, .	1.1	2
39	Resonant tunneling of magnetization in Mn ₁₂ acetate complex. European Physical Journal D, 1996, 46, 2135-2136.	0.4	0
40	More on "Why Do They Leave Physics?": Money Matters, Research and Job Opportunities. Physics Today, 2000, 53, 15-17.	0.3	0
41	New vision of magnetic tunnelling. Physics World, 2002, 15, 22-23.	0.0	0
42	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
43	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
44	Macroscopic Quantum Coherence in an Rf-SQUID. , 2001, , 7-16.		0
45	Aharonov-Casher Effect Suppression of Macroscopic Flux Tunneling. , 2004, , 23-30.		0
46	10.1063/1.4905176.1., 2015, , .		0
47	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