

Ezekiel Johnston-Halperin

List of Publications by Year in descending order

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76
papers

8,849
citations

172457

29
h-index

85541

71
g-index

77
all docs

77
docs citations

77
times ranked

14298
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress, Challenges, and Opportunities in Two-Dimensional Materials Beyond Graphene. ACS Nano, 2013, 7, 2898-2926.	14.6	4,062
2	A 160-kilobit molecular electronic memory patterned at 1011 bits per square centimetre. Nature, 2007, 445, 414-417.	27.8	1,176
3	A strong ferroelectric ferromagnet created by means of spin-lattice coupling. Nature, 2010, 466, 954-958.	27.8	668
4	Highly enhanced Curie temperature in low-temperature annealed [Ga,Mn]As epilayers. Applied Physics Letters, 2003, 82, 2302-2304.	3.3	302
5	Spin coherence and dephasing in GaN. Physical Review B, 2001, 63, .	3.2	190
6	A strong ferroelectric ferromagnet created by means of spin-lattice coupling. Nature, 2011, 476, 114-114.	27.8	183
7	Bridging Dimensions: Demultiplexing Ultrahigh-Density Nanowire Circuits. Science, 2005, 310, 465-468.	12.6	177
8	(Ga,Mn)As as a digital ferromagnetic heterostructure. Applied Physics Letters, 2000, 77, 2379-2381.	3.3	168
9	Circuit Fabrication at 17 nm Half-Pitch by Nanoimprint Lithography. Nano Letters, 2006, 6, 351-354.	9.1	168
10	Giant spin Seebeck effect in a non-magnetic material. Nature, 2012, 487, 210-213.	27.8	164
11	Spin-polarized Zener tunneling in (Ga,Mn)As. Physical Review B, 2002, 65, .	3.2	120
12	Ferromagnetic Imprinting of Nuclear Spins in Semiconductors. Science, 2001, 294, 131-134.	12.6	109
13	Theory of semiconductor magnetic bipolar transistors. Applied Physics Letters, 2003, 82, 4740-4742.	3.3	90
14	Spin injection from (Ga,Mn)As into InAs quantum dots. Physical Review B, 2002, 66, .	3.2	84
15	Angular dependence of metamagnetic transitions in HoNi ₂ B ₂ C. Physical Review B, 1997, 55, 970-976.	3.2	80
16	Spin spectroscopy of dark excitons in CdSe quantum dots to 60 T. Physical Review B, 2001, 63, .	3.2	78
17	Fabrication of conducting Si nanowire arrays. Journal of Applied Physics, 2004, 96, 5921-5923.	2.5	78
18	Element Resolved Spin Configuration in Ferromagnetic Manganese-Doped Gallium Arsenide. Physical Review Letters, 2003, 91, 187203.	7.8	68

#	ARTICLE	IF	CITATIONS
19	Anisotropic Thermopower and Planar Nernst Effect in $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ Ferromagnetic Semiconductors. <i>Physical Review Letters</i> , 2006, 97, 036601.	7.8	66
20	Spiers Memorial Lecture : Molecular mechanics and molecular electronics. <i>Faraday Discussions</i> , 2006, 131, 9-22.	3.2	63
21	Optical, electrical and magnetic manipulation of spins in semiconductors. <i>Semiconductor Science and Technology</i> , 2002, 17, 275-284.	2.0	55
22	Anisotropic electrical spin injection in ferromagnetic semiconductor heterostructures. <i>Applied Physics Letters</i> , 2002, 80, 1598-1600.	3.3	53
23	Magnetization jumps and irreversibility in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$. <i>Physical Review B</i> , 1996, 53, 11807-11816.	3.2	49
24	Electrical Spin Injection from an Organic-Based Ferrimagnet in a Hybrid Organic-Inorganic Heterostructure. <i>Physical Review Letters</i> , 2011, 106, 156602.	7.8	38
25	Patterned growth of crystalline $\text{Y}_3\text{Fe}_5\text{O}_{12}$ nanostructures with engineered magnetic shape anisotropy. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	34
26	High-field magnetocrystalline anisotropic resistance effect in $(\text{Ga},\text{Mn})\text{As}$. <i>Physical Review B</i> , 2008, 77, .	3.2	33
27	Superconducting anisotropy of $\text{YNi}_2\text{B}_2\text{C}$. <i>Physical Review B</i> , 1995, 51, 12852-12853.	3.2	31
28	Independent electronic and magnetic doping in $(\text{Ga},\text{Mn})\text{As}$ based digital ferromagnetic heterostructures. <i>Physical Review B</i> , 2003, 68, .	3.2	31
29	Predicted strong coupling of solid-state spins via a single magnon mode. <i>Materials for Quantum Technology</i> , 2021, 1, 011001.	3.1	30
30	Low loss spin wave resonances in organic-based ferrimagnet vanadium tetracyanoethylene thin films. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	25
31	Membrane mechanics govern spatiotemporal heterogeneity of endocytic clathrin coat dynamics. <i>Molecular Biology of the Cell</i> , 2017, 28, 3480-3488.	2.1	25
32	Stability of trions in strongly spin-polarized two-dimensional electron gases. <i>Physical Review B</i> , 2000, 61, R16307-R16310.	3.2	23
33	Ultra-narrow ferromagnetic resonance in organic-based thin films grown via low temperature chemical vapor deposition. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	23
34	Concentration-independent local ferromagnetic Mn configuration in $\text{Ga}_{1-x}\text{Mn}_x\text{As}$. <i>Physical Review B</i> , 2005, 71, .	3.2	21
35	Water activated doping and transport in multilayered germanane crystals. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 034001.	1.8	21
36	Correlation of electrical spin injection and non-linear charge-transport in $\text{Fe}/\text{MgO}/\text{Si}$. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	17

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37	Thin-film encapsulation of the air-sensitive organic-based ferrimagnet vanadium tetracyanoethylene. Applied Physics Letters, 2015, 106, .	3.3	17
38	Low-damping ferromagnetic resonance in electron-beam patterned, high-Q vanadium tetracyanoethylene magnon cavities. APL Materials, 2019, 7, .	5.1	17
39	The path towards functional nanoparticle-DNA origami composites. Materials Science and Engineering Reports, 2019, 138, 153-209.	31.8	15
40	Modification of electronic surface states by graphene islands on Cu(111). Physical Review B, 2015, 91, .	3.2	13
41	Crystalline hydrogenation of graphene by scanning tunneling microscope tip-induced field dissociation of H ₂ . Carbon, 2017, 124, 97-104.	10.3	13
42	Electron Paramagnetic Resonance of a Single NV Nanodiamond Attached to an Individual Biomolecule. Biophysical Journal, 2016, 110, 2044-2052.	0.5	12
43	Comprehensive control of optical polarization anisotropy in semiconducting nanowires. Applied Physics Letters, 2011, 99, .	3.3	11
44	Thin-Film Deposition of an Organic Magnet Based on Vanadium Methyl Tricyanoethylenecarboxylate. Advanced Materials, 2014, 26, 7632-7636.	21.0	11
45	Ferromagnetic Resonance Spin Pumping and Electrical Spin Injection in Silicon-Based Metal-Oxide-Semiconductor Heterostructures. Physical Review Letters, 2015, 115, 246602.	7.8	10
46	Growth of uniform CaGe ₂ films by alternating layer molecular beam epitaxy. Journal of Crystal Growth, 2017, 460, 134-138.	1.5	10
47	Spin-wave confinement and coupling in organic-based magnetic nanostructures. APL Materials, 2019, 7, .	5.1	10
48	Defect states and disorder in charge transport in semiconductor nanowires. Journal of Applied Physics, 2013, 114, .	2.5	9
49	Chemical Vapor Deposition of an Organic Magnet, Vanadium Tetracyanoethylene. Journal of Visualized Experiments, 2015, , e52891.	0.3	9
50	Vanadium[ethyl tricyanoethylene carboxylate] _x : a new organic-based magnet. Journal of Materials Chemistry C, 2015, 3, 7363-7369.	5.5	9
51	Optical and electronic manipulation of spin coherence in semiconductors. Proceedings of the IEEE, 2003, 91, 752-760.	21.3	8
52	Uniform large-area growth of nanotemplated high-quality monolayer MoS ₂ . Applied Physics Letters, 2017, 110, 263103.	3.3	8
53	Magnetic properties of (Ga,Mn)As digital ferromagnetic heterostructures. Journal of Applied Physics, 2004, 95, 6509-6511.	2.5	7
54	Thin film synthesis of the organic-based magnet vanadium ethyl tricyanoethylenecarboxylate. RSC Advances, 2015, 5, 82271-82275.	3.6	6

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55	Native defects in ultra-high vacuum grown graphene islands on Cu(1 1 1). Journal of Physics Condensed Matter, 2016, 28, 034003.	1.8	6
56	Exchange-Driven Spin Relaxation in Ferromagnet-Oxide-Semiconductor Heterostructures. Physical Review Letters, 2016, 116, 107201.	7.8	5
57	Broadband Optical Detection of Ferromagnetic Resonance From the Organic-Based Ferrimagnet V[TCNE] Using N-V Centers in Diamond. Physical Review Applied, 2020, 14, .	3.8	5
58	Exploring a quantum-information-relevant magnonic material: Ultralow damping at low temperature in the organic ferrimagnet V[TCNE]x. AVS Quantum Science, 2021, 3, .	4.9	5
59	Magnetic ordering in a vanadium-organic coordination polymer using a pyrrolo[2,3-d:5,4-d']bis(thiazole)-based ligand. RSC Advances, 2018, 8, 36223-36232.	3.6	4
60	Topological Dirac semimetal Na ₃ Bi films in the ultrathin limit via alternating layer molecular beam epitaxy. APL Materials, 2018, 6, 086103.	5.1	4
61	Structural engineering of ferromagnetism in III-V digital ferromagnetic heterostructures. Journal of Applied Physics, 2004, 95, 4922-4927.	2.5	3
62	Raman Spectroscopy and Aging of the Low-Loss Ferrimagnet Vanadium Tetracyanoethylene. Journal of Physical Chemistry C, 2021, 125, 20380-20388.	3.1	3
63	Optical spectroscopy of magnetic 2D electron gases at the Los Alamos pulsed magnetic field facility. Physica B: Condensed Matter, 2001, 298, 369-375.	2.7	2
64	A versatile LabVIEW and field-programmable gate array-based scanning probe microscope for in operando electronic device characterization. Review of Scientific Instruments, 2014, 85, 123702.	1.3	2
65	Organic-based Magnetically Ordered Films. Materials and Energy, 2018, , 125-168.	0.1	2
66	Membrane Tension Dictates the Spatiotemporal Heterogeneity of Endocytic Clathrin Coat Dynamics in Cells. Biophysical Journal, 2018, 114, 280a-281a.	0.5	2
67	Experimental demonstration of a magnetic bipolar junction transistor. , 2012, , .		1
68	Nanogram calorimetry using microscale suspended SiN _x platforms fabricated via focused ion beam patterning. Review of Scientific Instruments, 2015, 86, 014903.	1.3	1
69	Photoluminescence evolution in GaAs/AlGaAs core/shell nanowires grown by MOCVD: Effects of core growth temperature and substrate orientation. Journal of Crystal Growth, 2015, 429, 1-5.	1.5	1
70	Tuning the dynamic exchange interaction in ferromagnet/semiconductor heterostructures. Proceedings of SPIE, 2015, , .	0.8	1
71	Electron Energy Loss Spectroscopy of Vanadium Tetracyanoethylene. Microscopy and Microanalysis, 2020, 26, 3112-3114.	0.4	1
72	Growth and magnetic properties of (Ga,Mn)As as digital ferromagnetic heterostructures. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2002, 88, 209-212.	3.5	0

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73	Electrical transport in a hybrid organic/inorganic heterostructure. Proceedings of SPIE, 2011, , .	0.8	0
74	Electron Paramagnetic Resonance from a Single Biomolecule. Biophysical Journal, 2015, 108, 337a.	0.5	0
75	Tuning spin dynamics and localization near the metal-insulator transition in Fe/GaAs heterostructures. Physical Review B, 2018, 98, .	3.2	0
76	Imaging and analysis of low atomic number materials in the STEM. Microscopy and Microanalysis, 2019, 25, 1734-1735.	0.4	0