N Peter Armitage

List of Publications by Year
in descending order

82	6,278	126708	66788
papers	citations	33 h-index	78 g-index

82	82	82	6802
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Weyl and Dirac semimetals in three-dimensional solids. Reviews of Modern Physics, 2018, 90, .	16.4	3,031
2	Quantized Faraday and Kerr rotation and axion electrodynamics of a 3D topological insulator. Science, 2016, 354, 1124-1127.	6.0	254
3	A sudden collapse in the transport lifetime across the topological phase transition in (Bi1âˆ’xInx)2Se3. Nature Physics, 2013, 9, 410-414.	6.5	206
4	Terahertz Response and Colossal Kerr Rotation from the Surface States of the Topological Insulator<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Se</mml:mi><mml:mn> Physical Review Letters, 2012, 108, 087403.	2.9	201
5	Temporal correlations of superconductivity above the transition temperature in La2âˆ’xSrxCuO4 probed by terahertzÂspectroscopy. Nature Physics, 2011, 7, 298-302.	6.5	164
6	A global inversion-symmetry-broken phase inside the pseudogap region of YBa2Cu3Oy. Nature Physics, 2017, 13, 250-254.	6.5	142
7	Record Surface State Mobility and Quantum Hall Effect in Topological Insulator Thin Films via Interface Engineering. Nano Letters, 2015, 15, 8245-8249.	4.5	119
8	Topological spintronics and magnetoelectronics. Nature Materials, 2022, 21, 15-23.	13.3	101
9	Efficient Terahertz Harmonic Generation with Coherent Acceleration of Electrons in the Dirac Semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>Cd</mml:mi></mml:mrow><mml:mrow><mml:mn>3 Physical Review Letters, 2020, 124, 117402.	2.9	97
10	Magneto-Optical Signature of Massless Kane Electrons in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>Cd</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn> Physical Review Letters, 2016, 117, 136401.	2.9	93
11	Polarization modulation time-domain terahertz polarimetry. Optics Express, 2012, 20, 12303.	1.7	89
12	Hierarchy of Bound States in the One-Dimensional Ferromagnetic Ising Chain<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>CoNb</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow><mml:mrow><mml:mn> mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>6</mml:mn></mml:mrow></mml:msub></mml:mrow></mml: by High-Resolution Time-Domain Terahertz Spectroscopy. Physical Review Letters, 2014, 112, 137403.	2.9	82
13	Optical Birefringence and Dichroism of Cuprate Superconductors in the THz Regime. Physical Review Letters, 2014, 112, 147001.	2.9	77
14	Mixed-valence-driven heavy-fermion behavior and superconductivity in KNi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2012, 86, .	1.1	71
15	Room-temperature terahertz anomalous Hall effect in Weyl antiferromagnet Mn3Sn thin films. Nature Communications, 2020, 11, 909.	5.8	70
16	Charge Carrier Interaction with a Purely Electronic Collective Mode: Plasmarons and the Infrared Response of Elemental Bismuth. Physical Review Letters, 2007, 99, 016406.	2.9	66
17	High-Resolution Faraday Rotation and Electron-Phonon Coupling in Surface States of the Bulk-Insulating Topological Insulator<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Cu</mml:mi></mml:mrow><mml:mrow><mml:mn>0.02</mml:mn> Physical Review Letters, 2015, 115, 217602.	2.9	64
18	Locating the Missing Superconducting Electrons in the Overdoped Cuprates <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>La</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn><mml:mn> Physical Review Letters, 2019, 122, 027003.	2.9	62

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19	A measure of monopole inertia in the quantum spin ice Yb2Ti2O7. Nature Physics, 2016, 12, 361-366.	6.5	58
20	Constraints on Jones transmission matrices from time-reversal invariance and discrete spatial symmetries. Physical Review B, 2014, 90, .	1.1	51
21	Hierarchy of Exchange Interactions in the Triangular-Lattice Spin Liquid <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>YbMgGaO</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review X, 2018, 8, .	2.8	49
22	Dynamical study of phase fluctuations and their critical slowing down in amorphous superconducting films. Physical Review B, 2011, 84, .	1.1	46
23	Local magnetism and spin correlations in the geometrically frustrated cluster magnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>LiZn</mml:mtext><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 89, .	1.1	46
24	Low-energy electrodynamics of novel spin excitations in the quantum spin ice Yb2Ti2O7. Nature Communications, 2014, 5, 4970.	5.8	44
25	Anomalous three-dimensional bulk ac conduction within the Kondo gap of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SmB</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:math> single crystals. Physical Review B, 2016, 94, .	1.1	44
26	Resolving Continua of Fractional Excitations by Spinon Echo in THz 2D Coherent Spectroscopy. Physical Review Letters, 2019, 122, 257401.	2.9	43
27	On the matter of topological insulators as magnetoelectrics. SciPost Physics, 2019, 6, .	1.5	43
28	A Large Effective Phonon Magnetic Moment in a Dirac Semimetal. Nano Letters, 2020, 20, 5991-5996.	4.5	42
29	Dielectric anomalies and interactions in the three-dimensional quadratic band touching Luttinger semimetal Pr2Ir2O7. Nature Communications, 2017, 8, 2097.	5.8	40
30	Infrared Conductivity of Elemental Bismuth under Pressure: Evidence for an Avoided Lifshitz-Type Semimetal-Semiconductor Transition. Physical Review Letters, 2010, 104, 237401.	2.9	39
31	Optical investigation of the strong spin-orbit-coupled magnetic semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>YbMnBi</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2017, 96, .	1.1	38
32	Anomalous gap-edge dissipation in disordered superconductors on the brink of localization. Physical Review B, 2016, 93, .	1.1	37
33	Frequency-dependent conductivity of electron glasses. Physical Review B, 2004, 69, .	1.1	35
34	Singlet-Triplet Excitations and Long-Range Entanglement in the Spin-Orbital Liquid Candidate<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>FeSc</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2015, 114, 207201.	2.9	33
35	Pair-breaking effects and coherence peak in the terahertz conductivity of superconductingBaFe2â^'2xCo2xAs2thin films. Physical Review B, 2010, 82, .	1.1	32
36	Developments in THz Range Ellipsometry. Journal of Infrared, Millimeter, and Terahertz Waves, 2013, 34, 682-708.	1.2	29

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37	Aging and reduced bulk conductance in thin films of the topological insulator Bi2Se3. Journal of Applied Physics, 2013, 113, .	1.1	29
38	Observation of a marginal Fermi glass. Nature Physics, 2021, 17, 627-631.	6.5	29
39	Broadband microwave and time-domain terahertz spectroscopy of chemical vapor deposition grown graphene. Journal of Applied Physics, 2011, 110, 083510.	1.1	28
40	Duality and domain wall dynamics in a twisted Kitaev chain. Nature Physics, 2021, 17, 832-836.	6.5	28
41	Terahertz conductivity of the magnetic Weyl semimetal Mn3Sn films. Applied Physics Letters, 2019, 115, .	1.5	26
42	Electrodynamics of a Coulomb Glass inn-Type Silicon. Physical Review Letters, 2002, 89, 246601.	2.9	23
43	Nodeless Bulk Superconductivity in the Time-Reversal Symmetry Breaking Bi/Ni Bilayer System. Physical Review Letters, 2019, 122, 017002.	2.9	23
44	Stability of low-carrier-density topological-insulator Bi₂Se₃ thin films and effect of capping layers. APL Materials, 2015, 3, 091101.	2.2	22
45	On the possibility of fast vortices in the cuprates: A vortex plasma model analysis of THz conductivity and diamagnetism in La2âˆ’xSrxCuO4. Physical Review B, 2011, 84, .	1.1	19
46	Disorder-driven topological phase transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>films.	1.1	19
47	Tunable Magnon Interactions in a Ferromagnetic Spin-1 Chain. Physical Review Letters, 2020, 124, 037203.	2.9	16
48	Probing charge pumping and relaxation of the chiral anomaly in a Dirac semimetal. Science Advances, 2021, 7, .	4.7	16
49	Magnetoterahertz Response and Faraday Rotation from Massive Dirac Fermions in the Topological Crystalline Insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Pb</mml:mi></mml:mrow><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow> Physical Review Letters, 2019, 122, 097401.	2.9	15
50	Ultrafast (but Many-Body) Relaxation in a Low-Density Electron Glass. Physical Review Letters, 2010, 105, 086601.	2.9	14
51	Asymmetric Splitting of an Antiferromagnetic Resonance via Quartic Exchange Interactions in Multiferroic Hexagonal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>HoMnO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn> Physical Review Letters, 2017, 119, 227601.	2.9	14
52	Observation of 4- and 6-Magnon Bound States in the Spin-Anisotropic Frustrated Antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>FeI</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow> Physical Review Letters, 2021, 127, 267201.	2.9	14
53	Electric field modulated topological magnetoelectric effect in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn> Physical Review B, 2018, 98, .	2.1	13
54	A Modified 8f Geometry with Reduced Optical Aberrations for Improved Time Domain Terahertz Spectroscopy. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 894-902.	1.2	12

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55	Absence of Cyclotron Resonance in the Anomalous Metallic Phase in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>InO</mml:mi></mml:mrow><mml:mrow><mml:mi>x</mml:mi></mml:mrow> Physical Review Letters, 2018, 120, 167002.	2.9	12
56	Low energy electrodynamics of the Kondo-lattice antiferromagnet CeCu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Ge<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2012, 85, .	1.1	11
57	Tuning and stabilizing topological insulator Bi2Se3 in the intrinsic regime by charge extraction with organic overlayers. Applied Physics Letters, 2016, 108, .	1.5	11
58	Unconventional free charge in the correlated semimetal Nd2Ir2O7. Nature Physics, 2020, 16, 1194-1198.	6.5	11
59	Observation of cyclotron resonance and measurement of the hole mass in optimally doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>La</mml:mi></mml:mrow><mml:mrow><mml:mi> Physical Review B, 2021, 103, .	1.1	11
60	NMR relaxation in Ising spin chains. Physical Review B, 2019, 99, .	1.1	10
61	Quantum Critical Magnetic Excitations in Spin- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn></mml:mrow></mml:math> and Spin-1 Chain Systems. Physical Review X, 2022, 12, .	2.8	10
62	Measurement of the topological surface state optical conductance in bulk-insulating Sn-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mrow><mml:mn>1.1</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">S</mml:mi></mml:mrow></mml:math> single crystals. Physical Review B, 2016, 94, .	1.1	9
63	Low-energy magnon dynamics and magneto-optics of the skyrmionic Mott insulator Cu2OSeO3. Physical Review B, 2017, 95, .	1.1	9
64	Subterahertz Momentum Drag and Violation of Matthiessenâ€™s Rule in an Ultraclean Ferromagnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>SrRuO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn> Metallic Thin Film. Physical Review Letters, 2020, 125, 217401.	2.9	9
65	A Compact Broadband Terahertz Range Quarter-Wave Plate. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 642-654.	1.2	9
66	Anomalous frequency and temperature-dependent scattering and Hund's coupling in the almost quantum critical heavy-fermion system<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CeFe</mml:mi><mml:mn>2</mml:mn> Physical Review B, 2016, 93, .	1.1	8
67	Dynamic stabilization?. Nature Materials, 2014, 13, 665-666.	13.3	7
68	Low-energy magneto-optics of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Tb</mml:mi><mml:mn>2</mml:mn> mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math> in a [111] magnetic field. Physical Review B, 2021, 103, .	1.1	6
69	A broadband microwave Corbino spectrometer at3He temperatures and high magnetic fields. Review of Scientific Instruments, 2014, 85, 093108.	0.6	5
70	Separated transport relaxation scales and interband scattering in thin films of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrRuO</mml:mi><mml:mn>3</mml:mn></mml:msub> , <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CaRuO</mml:mi><mml:mn>3</mml:mn></mml:msub> , and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn>	1.1	5
71	Inkjet Printed Wire-Grid Polarizers for the THz Frequency Range. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 276-282.	1.2	4
72	Linear dichroism infrared resonance in overdoped, underdoped, and optimally doped cuprate superconductors. Physical Review B, 2020, 102, .	1.1	4

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73	BCS <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>d</mml:mi></mml:mrow></mml:math> -wave behavior in the terahertz electrodynamic response of electron-doped cuprate superconductors. Physical Review B, 2021, 104, .	1.1	4
74	THz-range Faraday rotation in the Weyl semimetal candidate Co2TiGe. Journal of Applied Physics, 2020, 128, .	1.1	4
75	Measurements of cyclotron resonance of the interfacial states in strong spinâ€“orbit coupled 2D electron gases proximitized with aluminum. Applied Physics Letters, 2022, 120, 142105.	1.5	4
76	Kitaev's exact solution approximated. Nature Materials, 2016, 15, 701-702.	13.3	3
77	Nonvolatile Solid-State Charged-Polymer Gating of Topological Insulators into the Topological Insulating Regime. Physical Review Applied, 2018, 9, .	1.5	3
78	Ambipolar magneto-optical response of ultralow carrier density topological insulators. Physical Review B, 2021, 103, .	1.1	3
79	Effect of radiation-induced defects on the superfluid density and optical conductivity of overdoped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">La</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow><mml:mi mathvariant="normal">Sr</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi mathvariant="normal">CuO</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>. Physical Review B, 2022, 105, .	1.1	3
80	Reduction of effective terahertz focal spot size by means of nested concentric parabolic reflectors. AIP Advances, 2015, 5, 097203.	0.6	2
81	Anomalously small superconducting gap in a strong spin-orbit coupled superconductor: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math> -tungsten. Physical Review B, 2022, 105, .	1.1	2
82	THz electrodynamics of mixed-valent YbAl$$_3$$ and LuAl$$_3$$ thin films. European Physical Journal B, 2021, 94, 1.	0.6	1