

James Analytis

List of Publications by Year in descending order

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132
papers

16,584
citations

22099

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138
all docs

138
docs citations

138
times ranked

12991
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Realization of a Three-Dimensional Topological Insulator, Bi_2Te_3 . Science, 2009, 325, 178-181.	6.0	3,095
2	Massive Dirac Fermion on the Surface of a Magnetically Doped Topological Insulator. Science, 2010, 329, 659-662.	6.0	1,051
3	In-Plane Resistivity Anisotropy in an Underdoped Iron Arsenide Superconductor. Science, 2010, 329, 824-826.	6.0	690
4	Two-dimensional surface state in the quantum limit of a topological insulator. Nature Physics, 2010, 6, 960-964.	6.5	521
5	Topological valley transport at bilayer graphene domain walls. Nature, 2015, 520, 650-655.	13.7	502
6	Determination of the phase diagram of the electron-doped superconductor BaFe_2As_2 . Physical Review B, 2009, 79, 10407-10410.	11.1	469
7	STM Imaging of Electronic Waves on the Surface of Bi_2Te_3 . Topologically Protected Surface States and Hexagonal Warping Effects. Physical Review Letters, 2010, 104, 016401.	11.1	469
8	Symmetry-breaking orbital anisotropy observed for detwinned $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)\text{Tj}$. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6878-6883.	3.3	464
9	Divergent Nematic Susceptibility in an Iron Arsenide Superconductor. Science, 2012, 337, 710-712.	6.0	452
10	Bulk Fermi surface coexistence with Dirac surface state in Bi_2Te_3 . A comparison of photoemission and Shubnikov-de Haas measurements. Physical Review B, 2010, 81, 114407.	11.1	425
11	Ambipolar field effect in the ternary topological insulator $(\text{Bi}_x\text{Sb}_{1-x})_2\text{Te}_3$ by composition tuning. Nature Nanotechnology, 2011, 6, 705-709.	15.6	345
12	Giant anisotropic nonlinear optical response in transition metal monopnictide Weyl semimetals. Nature Physics, 2017, 13, 350-355.	6.5	325
13	Rapid Surface Oxidation as a Source of Surface Degradation Factor for Bi_2Se_3 . ACS Nano, 2011, 5, 4698-4703.	7.3	320
14	Unconventional Josephson Effect in Hybrid Superconductor-Topological Insulator Devices. Physical Review Letters, 2012, 109, 056803.	2.9	314
15	Ultrafast Optical Excitation of a Persistent Surface-State Population in the Topological Insulator Bi_2Te_3 . Physical Review Letters, 2012, 108, 117403.	2.9	313
16	New frontiers for the materials genome initiative. Npj Computational Materials, 2019, 5, 1-10.	3.5	312
17	Transport evidence for Fermi-arc-mediated chirality transfer in the Dirac semimetal Cd_3As_2 . Nature, 2016, 535, 266-270.	13.7	292
18	Electronic structure of the iron-based superconductor LaOFeP . Nature, 2008, 455, 81-84.	13.7	279

#	ARTICLE	IF	CITATIONS
19	Ultrahard magnetism from mixed-valence dilanthanide complexes with metal-metal bonding. <i>Science</i> , 2022, 375, 198-202.	6.0	246
20	Realization of a three-dimensional spin anisotropic harmonic honeycomb iridate. <i>Nature Communications</i> , 2014, 5, 4203.	5.8	230
21	Evidence for a Nodal-Line Superconducting State in LaFePO. <i>Physical Review Letters</i> , 2009, 102, 147001.	2.9	197
22	Single Dirac Cone Topological Surface State and Unusual Thermoelectric Property of Compounds from a New Topological Insulator Family. <i>Physical Review Letters</i> , 2010, 105, 266401.	2.9	195
23	Fermi Surface of Superconducting LaFePO Determined from Quantum Oscillations. <i>Physical Review Letters</i> , 2008, 101, 216402.	2.9	182
24	Evidence for weak electronic correlations in iron pnictides. <i>Physical Review B</i> , 2009, 80, .	1.1	176
25	Neutron scattering study of the interplay between structure and magnetism in $BaBi_2Te_3$. <i>Physical Review B</i> , 2009, 79, .	1.1	170
26	Weak Antilocalization in $Bi_2(SexTe)_3$ Nanoribbons and Nanoplates. <i>Nano Letters</i> , 2012, 12, 1107-1111.	4.5	166
27	Black Arsenic: A Layered Semiconductor with Extreme In-Plane Anisotropy. <i>Advanced Materials</i> , 2018, 30, e1800754.	11.1	161
28	Direct Optical Coupling to an Unoccupied Dirac Surface State in the Topological Insulator Bi_2Se_3 . <i>Physical Review Letters</i> , 2013, 111, 136802.	2.9	142
29	Unconventional electronic reconstruction in undoped $BaBi_2Te_3$ at the spin density wave transition. <i>Physical Review B</i> , 2009, 80, .	1.1	134
30	Noncoplanar and Counterrotating Incommensurate Magnetic Order Stabilized by Kitaev Interactions in $LiFePO_4$. <i>Physical Review Letters</i> , 2014, 113, 197201.	2.9	132
31	Electronic structure of the $BaFe_2As_2$ of iron-pnictide superconductors. <i>Physical Review B</i> , 2009, 80, .	1.1	116
32	Evidence for a Nodal Energy Gap in the Iron-Pnictide Superconductor LaFePO from Penetration Depth Measurements by Scanning SQUID Susceptometry. <i>Physical Review Letters</i> , 2009, 103, 127003.	2.9	115
33	Widespread spin polarization effects in photoemission from topological insulators. <i>Physical Review B</i> , 2011, 84, .	1.1	111
34	Three-dimensional quantum spin liquids in models of harmonic-honeycomb iridates and phase diagram in an infinite- D approximation. <i>Physical Review B</i> , 2014, 90, .	1.1	110
35	Distinguishing Bulk and Surface Electron-Phonon Coupling in the Topological Insulator Bi_2Te_3 by Time-Resolved Photoemission Spectroscopy. <i>Physical Review Letters</i> , 2014, 113, 157401.	2.9	103
36	Transport near a quantum critical point in $BaFe_2(As_{1-x}Px)_2$. <i>Nature Physics</i> , 2014, 10, 194-197.	6.5	100

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37	Origin of the nonmonotonic doping dependence of the in-plane resistivity anisotropy of Ba(Fe _{1-x} Ti _x) ₂ As ₂ . Physical Review B, 2011, 84, .	1.1	95
38	Quantum oscillations in the parent pnictide BaFe ₂ As ₂ . Itinerant electrons in the reconstructed state. Physical Review B, 2009, 80, .	2.1	93
39	Scaling between magnetic field and temperature in the high-temperature superconductor BaFe ₂ (As _{1-x} P _x) ₂ . Nature Physics, 2016, 12, 916-919.	6.5	92
40	STM Imaging of Impurity Resonances on Bi ₂ Se ₃ . Physical Review Letters, 2012, 108, 206402.	5.9	88
41	Effect of Irradiation-Induced Disorder on the Conductivity and Critical Temperature of the Organic Superconductor (BEDT-TTF) ₂ Cu(SCN) ₂ . Physical Review Letters, 2006, 96, 177002.	2.9	86
42	Alternative route to charge density wave formation in multiband systems. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 64-69.	3.3	86
43	Resonance-enhanced optical nonlinearity in the Weyl semimetal TaAs. Physical Review B, 2018, 98, .	1.1	83
44	Local measurement of the penetration depth in the pnictide superconductor BaFe ₂ As ₂ . Physical Review B, 2010, 81, .	1.1	82
45	Dispersive spin fluctuations in the nearly optimally doped superconductor BaFe ₂ As ₂ . Physical Review B, 2010, 81, .	1.1	81
46	Band- and momentum-dependent electron dynamics in superconducting BaFe ₂ As ₂ . Physical Review B, 2009, 80, .	1.1	79
47	Correlation between the Superconducting Transition Temperature and Anisotropic Quasiparticle Scattering in Ba ₂ Tl ₂ . Physical Review Letters, 2007, 99, 107002.	2.9	78
48	Charge dynamics of Co-doped BaFe ₂ As ₂ . New Journal of Physics, 2010, 12, 073036.	1.2	78
49	Local Measurement of the Superfluid Density in the Pnictide Superconductor BaFe ₂ As ₂ . Physical Review Letters, 2011, 106, 067001.	2.9	75
50	In-plane electronic anisotropy in underdoped BaFe ₂ As ₂ . Physical Review B, 2010, 81, .	1.1	72
51	Electrical switching in a magnetically intercalated transition metal dichalcogenide. Nature Materials, 2020, 19, 153-157. Behavior of vortices near twin boundaries in underdoped Ba(Fe _{1-x} Ti _x) ₂ As ₂ . Physical Review B, 2011, 84, .	13.3	72
52		1.1	71
53	Fermi Surface of SrFe ₂ P ₂ Determined by the de Haas-van Alphen Effect. Physical Review Letters, 2009, 103, 076401.	2.9	70
54	Exchange bias due to coupling between coexisting antiferromagnetic and spin-glass orders. Nature Physics, 2021, 17, 525-530.	6.5	70

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55	Inducing superconductivity in Weyl semimetal microstructures by selective ion sputtering. Science Advances, 2017, 3, e1602983.	4.7	68
56	ARPES studies of the electronic structure of LaOFe(P,As). Physica C: Superconductivity and Its Applications, 2009, 469, 452-458.	0.6	67
57	Critical spin fluctuations and the origin of nematic order in Ba(Fe ^{1-x} Cox)2As2. Nature Physics, 2016, 12, 560-563.	6.5	67
58	Ultrafast electron dynamics in the topological insulator Bi ₂ Se ₃ studied by time-resolved photoemission spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2014, 195, 249-257.	0.8	66
59	Stripes of increased diamagnetic susceptibility in underdoped superconducting $Ba_{1-x}Pb_xFe_2As_2$. Physical Review B, 2010, 81, 020407.	1.1	65
60	Topological Change of the Fermi Surface in Ternary Iron Phictides with Reduced Dimensionality. Ratio: A de Haas-van Alphen Study of $CaFe_2As_2$. Physical Review Letters, 2018, 120, 077201.	2.9	59
61	Directional Field-Induced Realization of a One-Dimensional Fermi Surface. Enhanced Fermi Surface Nesting in Superconducting $BaFe_2As_2$. Physical Review Letters, 2018, 120, 077201.	1.0	59
62	Observation of a two-dimensional Fermi surface and Dirac dispersion in $YbMnSb_2$. Physical Review B, 2018, 97, .	2.9	56
63	Magnetic torque anomaly in the quantum limit of Weyl semimetals. Nature Communications, 2016, 7, 12492.	5.8	54
64	Exchange biased anomalous Hall effect driven by frustration in a magnetic kagome lattice. Nature Communications, 2020, 11, 560.	5.8	54
66	Pinpointing gap minima in $Ba_{1-x}Pb_xFe_2As_2$. Physical Review B, 2010, 82, .	1.1	53
67	Three-state nematicity in the triangular lattice antiferromagnet Fe _{1/3} NbS ₂ . Nature Materials, 2020, 19, 1062-1067.	13.3	47
68	Correlated states in \hat{I}^2 -Li ₂ IrO ₃ driven by applied magnetic fields. Nature Communications, 2017, 8, 961.	5.8	43
69	Controlling the carriers of topological insulators by bulk and surface doping. Semiconductor Science and Technology, 2012, 27, 124002.	1.0	41
70	STM imaging of a bound state along a step on the surface of the topological insulator Bi ₂ Te ₃ . Physical Review B, 2010, 81, 040407.	1.1	36
71	Resonant x-ray scattering reveals possible disappearance of magnetic order under hydrostatic pressure in the Kitaev candidate \hat{I}^3 . Physical Review B, 2017, 96, .	1.1	35
72	Coexistence of orbital and quantum critical magnetoresistance in $FeSe_{1-x}S_x$. Physical Review Research, 2019, 1, .	1.3	33

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73	Angle-dependent magnetoresistance measurements in $Tl_2Ba_2CuO_6 + \delta$ and the need for anisotropic scattering. <i>Physical Review B</i> , 2007, 76, .	1.1	32
74	Landau levels, molecular orbitals, and the Hofstadter butterfly in finite systems. <i>American Journal of Physics</i> , 2004, 72, 613-618.	0.3	31
75	Tracking anisotropic scattering in overdoped $Tl_{2-x}Ba_{2-x}CuO_{6+\delta}$ above 100 K. <i>New Journal of Physics</i> , 2009, 11, 055057.	1.2	31
76	Magnetoelastically coupled structural, magnetic, and superconducting order parameters in $BaFe_{1-x}Co_xO_{7-\delta}$		

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91	Shubnikov-de Haas quantum oscillations reveal a reconstructed Fermi surface near optimal doping in a thin film of the cuprate superconductor $\text{Pr}_{1.86}\text{Ce}_{0.14}\text{CuO}_4$. Physical Review B, 2016, 94, .	1.1	16
92	Pressure dependence of the BaFe_2As_2 Fermi surface within the spin density wave state. Physical Review B, 2012, 85, .	1.1	15
93	Photoexcited states of the harmonic honeycomb iridate Li_2IrO_3 . Physical Review B, 2015, 92, .	1.1	15
94	Nonlinear nanoelectrodynamics of a Weyl metal. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	15
95	Magneto-resistance Scaling Reveals Symmetries of the Strongly Correlated Dynamics in BaFe_2 .		



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109	Polarized neutron diffraction study of the field-induced magnetization in the normal and superconducting states of $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ ($x=0.65$). <i>Physical Review B</i> , 2011, 84, .	1.1	7
110	Angle-dependent magnetoresistance oscillations of cuprate superconductors in a model with Fermi surface reconstruction and magnetic breakdown. <i>Physical Review B</i> , 2015, 92, .	1.1	7
111	High-temperature magnetic anomaly in the Kitaev hyperhoneycomb compound $\text{Na}_2\text{Ir}_2\text{O}_7$. <i>Physical Review B</i> , 2020, 101, .		
112	Competition between magnetic order and charge localization in $\text{Na}_2\text{Ir}_2\text{O}_7$ thin crystal devices. <i>Physical Review B</i> , 2020, 101, .		
113	Magnetic oscillations, disorder and the Hofstadter butterfly in finite systems. <i>Synthetic Metals</i> , 2005, 154, 265-268.	2.1	5
114	Magnetic electron collimation in three-dimensional semi-metals. <i>Npj Quantum Materials</i> , 2020, 5, .	1.8	5
115	Signatures of non-Loudon-Fleury Raman scattering in the Kitaev magnet $\text{Na}_2\text{Ir}_2\text{O}_7$. <i>Physical Review B</i> , 2022, 105, .		
116	Interplay of structure and charge order revealed by quantum oscillations in thin films of $\text{Pr}_2\text{Ir}_2\text{O}_7$. <i>Physical Review B</i> , 2019, 100, .		
117	Impact of disorder on dynamics and ordering in the honeycomb-lattice iridate $\text{Na}_2\text{Ir}_2\text{O}_7$. <i>Physical Review B</i> , 2020, 101, .		
118	Spatial nematic fluctuation in BaFe_2As_2 revealed by spatially and angle-resolved. <i>Physical Review B</i> , 2020, 101, .	1.1	3
119	Landau levels, electric dipole transitions, and the Hofstadter butterfly in finite systems. <i>European Physical Journal Special Topics</i> , 2004, 114, 283-284.	0.2	2
120	Dissipation in the superconducting state of $(\text{BEDT-TTF})_2\text{Cu}(\text{NCS})_2$. <i>Physical Review B</i> , 2007, 76, .	1.1	2
121	Bending strain in 3D topological semi-metals. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 084001.	1.3	2
122	Tracking the evolution from isolated dimers to many-body entanglement in NaLuYbSe_2 . <i>Physical Review B</i> , 2022, 106, .	1.1	2
123	The influence of magnetic order on the magnetoresistance anisotropy of FeTe . <i>Journal of Physics Condensed Matter</i> , 2017, 29, 285801.		1
124	Collective spin dynamics under dissipative spin Hall torque. <i>Applied Physics Letters</i> , 2021, 118, 032406.	1.5	1
125	Giant anisotropic nonlinear optical response in Weyl semimetals. , 2018, , .		1
126	Observation of the non-linear Meissner effect. <i>Nature Communications</i> , 2022, 13, 1201.	5.8	1

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127	Anisotropic scattering and superconductivity in high- <i>c</i> cuprates. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 3191-3194.	1.9	0
128	Publisher's Note: Quasiparticles and charge transfer at the two surfaces of the honeycomb iridate Na ₂ IrO ₃ [Phys. Rev. B 96, 161116(R) (2017)]. <i>Physical Review B</i> , 2017, 96, .	1.1	0
129	Angle-dependent magnetoresistance as a probe of Fermi surface warping in $\text{HgBa}_2\text{CuO}_4$. <i>Physical Review B</i> , 2018, 98, .		
130	Cooking with quantum gas. <i>Nature Physics</i> , 2020, 16, 506-507.	6.5	0
131	Evidence for a delocalization quantum phase transition without symmetry breaking in CeCoIn ₅ . <i>Science</i> , 2021, , eaaz4566.	6.0	0
132	High-pressure control of optical nonlinearity in the polar Weyl semimetal TaAs. <i>Physical Review B</i> , 2022, 106, .	1.1	0