

James Analytis

List of Publications by Year in descending order

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132
papers

16,584
citations

22153

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128
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138
all docs

138
docs citations

138
times ranked

12991
citing authors

#	ARTICLE	IF	CITATIONS
1	Bending strain in 3D topological semi-metals. Journal Physics D: Applied Physics, 2022, 55, 084001.	2.8	2
2	Evidence for a delocalization quantum phase transition without symmetry breaking in CeCoIn ₅ . Science, 2022, 375, 76-81.	12.6	21
3	Ultrahard magnetism from mixed-valence dilanthanide complexes with metal-metal bonding. Science, 2022, 375, 198-202.	12.6	246
4	Observation of the non-linear Meissner effect. Nature Communications, 2022, 13, 1201.	12.8	1
5	Highly Tunable Magnetic Phases in Transition-Metal Dichalcogenide $\text{Fe}_{1-x}\text{V}_x\text{Te}_2$. Physical Review X, 2022, 12, 041045.	3.9	1
6	Tunable exchange bias in the magnetic Weyl semimetal Co_3S_2 . Physical Review B, 2022, 105, .	3.2	10
7	Signatures of non-Loudon-Fleury Raman scattering in the Kitaev magnet TaAs . Physical Review B, 2022, 105, .	3.2	0
8	High-pressure control of optical nonlinearity in the polar Weyl semimetal TaAs. Physical Review B, 2022, 106, .	3.2	0
9	Tracing the evolution from isolated dimers to many-body entanglement in $\text{NaLuYb}_2\text{S}_6$. Physical Review B, 2022, 106, .	3.2	0
10	Superconductivity and quantum criticality linked by the Hall effect in a strange metal. Nature Physics, 2021, 17, 58-62.	16.7	13
11	Antiferromagnetic switching driven by the collective dynamics of a coexisting spin glass. Science Advances, 2021, 7, .	10.3	27
12	Exchange bias due to coupling between coexisting antiferromagnetic and spin-glass orders. Nature Physics, 2021, 17, 525-530.	16.7	70
13	Collective spin dynamics under dissipative spin Hall torque. Applied Physics Letters, 2021, 118, 032406.	3.3	1
14	Magnon-spinon dichotomy in the Kitaev hyperhoneycomb TaAs . Physical Review B, 2021, 103, .	3.3	1
15	Topological surface conduction in Kondo insulator YbB_{12} . Journal Physics D: Applied Physics, 2021, 54, 404002.	2.8	11
16	Nonlinear nanoelectrodynamics of a Weyl metal. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	15
17	Evidence for a delocalization quantum phase transition without symmetry breaking in CeCoIn ₅ . Science, 2021, , eaaz4566.	12.6	0
18	Electrical switching in a magnetically intercalated transition metal dichalcogenide. Nature Materials, 2020, 19, 153-157.	27.5	72

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19	Signatures of possible surface states in TaAs. Physical Review B, 2020, 102, .	3.2	9
20	Field-angle dependence of sound velocity in the Weyl semimetal TaAs. Physical Review B, 2020, 102, .	3.2	9
21	Three-state nematicity in the triangular lattice antiferromagnet Fe _{1/3} NbS ₂ . Nature Materials, 2020, 19, 1062-1067.	27.5	47
22	Competition between magnetic order and charge localization in Na ₂ Co ₂ (PO ₄) ₂ thin crystal devices. Physical Review B, 2020, 101, .	3.2	0
23	Cooking with quantum gas. Nature Physics, 2020, 16, 506-507.	16.7	0
24	High-temperature magnetic anomaly in the Kitaev hyperhoneycomb compound Na ²⁺ Ir ₂ O ₇ . Physical Review B, 2020, 101, .	3.2	0
25	Exchange biased anomalous Hall effect driven by frustration in a magnetic kagome lattice. Nature Communications, 2020, 11, 560.	12.8	54
26	Magnetic electron collimation in three-dimensional semi-metals. Npj Quantum Materials, 2020, 5, .	5.2	5
27	Impact of disorder on dynamics and ordering in the honeycomb-lattice iridate Na ₂ IrO ₆ . Physical Review B, 2020, 101, .	3.2	0
28	Manipulating long-lived topological surface photovoltage in bulk-insulating topological insulators Bi ₂ Se ₃ and Bi ₂ Te ₃ . Npj Quantum Materials, 2020, 5, .	5.2	18
29	Spatial nematic fluctuation in BaFe ₂ (As _y P _{1-y}) ₂ revealed by spatially and angle-resolved. Physical Review B, 2020, 101, .	3.2	0
30	Half-magnetization plateau and the origin of threefold symmetry breaking in an electrically switchable triangular antiferromagnet. Physical Review Research, 2020, 2, .	3.6	14
31	Magneto-resistance Scaling and the Origin of H-Linear Resistivity in BaFe ₂ (As _y P _{1-y}) ₂		

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37	Thermodynamic signature of Dirac electrons across a possible topological transition in ZrTe_5 Physical Review B, 2018, 97, .	1.62	109
38	Observation of a two-dimensional Fermi surface and Dirac dispersion in YbMnSb_2 Physical Review B, 2018, 97, .	1.21	54
39	Magnetoconductance Scaling Reveals Symmetries of the Strongly Correlated Dynamics in BaFe_2As_2		



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55	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.	16.7	92
56	Shubnikov-de Haas quantum oscillations reveal a reconstructed Fermi surface near optimal doping in a thin film of the cuprate superconductor Pr _{1.86} Ce _{0.14} CuO ₄ . Physical Review B, 2016, 94, .	3.2	16
57	Magnetic torque anomaly in the quantum limit of Weyl semimetals. Nature Communications, 2016, 7, 12492.	12.8	54
58	Critical spin fluctuations and the origin of nematic order in Ba(Fe _{1-x} Cox) ₂ As ₂ . Nature Physics, 2016, 12, 560-563.	16.7	67
59	Photoexcited states of the harmonic honeycomb iridate $LiIrO_3$. Physical Review B, 2015, 92, .	3.2	15
60	Angle-dependent magnetoresistance oscillations of cuprate superconductors in a model with Fermi surface reconstruction and magnetic breakdown. Physical Review B, 2015, 92, .	3.2	7
61	Topological valley transport at bilayer graphene domain walls. Nature, 2015, 520, 650-655.	27.8	502
62	Realization of a three-dimensional spin anisotropic harmonic honeycomb iridate. Nature Communications, 2014, 5, 4203.	12.8	230
63	Distinguishing Bulk and Surface Electron-Phonon Coupling in the Topological Insulator Bi_2Se_3 . Time-Resolved Photoemission Spectroscopy. Physical Review Letters, 2014, 113, 157401.	7.8	103
64	Transport near a quantum critical point in BaFe ₂ (As _{1-x} P _x) ₂ . Nature Physics, 2014, 10, 194-197.	16.7	100
65	Noncoplanar and Counterrotating Incommensurate Magnetic Order Stabilized by Kitaev Interactions in $LiIrO_3$. Physical Review Letters, 2014, 113, 197201.	7.8	132
66	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.	1.7	66
67	Three-dimensional quantum spin liquids in models of harmonic-honeycomb iridates and phase diagram in an infinite-D approximation. Physical Review B, 2014, 90, .	3.2	110
68	Direct Optical Coupling to an Unoccupied Dirac Surface State in the Topological Insulator Bi_2Se_3 . Physical Review Letters, 2013, 111, 136802.	7.8	142
69	Observing electronic structures on <i>ex situ</i> grown topological insulator thin films. Physica Status Solidi - Rapid Research Letters, 2013, 7, 130-132.	2.4	10
70	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.	7.1	86
71	Low-energy quasiparticles probed by heat transport in the iron-based superconductor LaFePO. Physical Review B, 2012, 85, .	3.2	9
72	STM Imaging of Impurity Resonances on Bi_2Se_3 . Physical Review Letters, 2012, 108, 206402.	3.2	88

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73	Ultrafast Optical Excitation of a Persistent Surface-State Population in the Topological Insulator Bi_2Se_3 . Physical Review Letters, 2012, 108, 117403.	7.8	313
74	Controlling the carriers of topological insulators by bulk and surface doping. Semiconductor Science and Technology, 2012, 27, 124002.	2.0	41
75	Unconventional Josephson Effect in Hybrid Superconductor-Topological Insulator Devices. Physical Review Letters, 2012, 109, 056803.	7.8	314
76	Weak Antilocalization in $\text{Bi}_2(\text{S}_x\text{Te}_{1-x})_3$ Nanoribbons and Nanoplates. Nano Letters, 2012, 12, 1107-1111.	9.1	166
77	Divergent Nematic Susceptibility in an Iron Arsenide Superconductor. Science, 2012, 337, 710-712.	12.6	452
78	Magnetoelastically coupled structural, magnetic, and superconducting order parameters in BaFe_2As_2 .		

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91	Two-dimensional surface state in the quantum limit of a topological insulator. Nature Physics, 2010, 6, 960-964. Enhanced Fermi-Surface Nesting in Superconducting $BaFe_2As_2$	16.7	521
92	In-plane electronic anisotropy in underdoped $BaFe_2As_2$. Physical Review B, 2010, 81, .	3.2	72
93	Pinpointing gap minima in $BaFe_2As_2$. Physical Review B, 2010, 82, .	3.2	53
94	Stripes of increased diamagnetic susceptibility in underdoped superconducting $BaFe_2As_2$. Physical Review B, 2010, 81, .	3.2	65
95	Charge dynamics of Co-doped $BaFe_2As_2$. New Journal of Physics, 2010, 12, 073036.	2.9	78
96	Bulk electronic structure of optimally doped $BaFe_2As_2$. Physical Review B, 2010, 81, .	3.2	29
97	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, .	3.2	425
98	Massive Dirac Fermion on the Surface of a Magnetically Doped Topological Insulator. Science, 2010, 329, 659-662.	12.6	1,051
99	Single Dirac Cone Topological Surface State and Unusual Thermoelectric Property of Compounds from a New Topological Insulator Family. Physical Review Letters, 2010, 105, 266401.	7.8	195
100	STM imaging of Electronic Waves on the Surface of Topologically Protected Surface States and Hexagonal Warping Effects. Physical Review Letters, 2010, 104, 096401.	7.8	164
101	Local measurement of the penetration depth in the pnictide superconductor $BaFe_2As_2$. Physical Review B, 2010, 81, .	3.2	82
102	Dispersive spin fluctuations in the nearly optimally doped superconductor $BaFe_2As_2$. Physical Review B, 2010, 81, .	3.2	81
103	In-Plane Resistivity Anisotropy in an Underdoped Iron Arsenide Superconductor. Science, 2010, 329, 824-826.	12.6	690
104	Quantum oscillations in the parent pnictide $BaFe_2As_2$. Itinerant electrons in the reconstructed state. Physical Review B, 2009, 80, .	3.2	93
105	Unconventional electronic reconstruction in undoped $BaFe_2As_2$. the spin density wave transition. Physical Review B, 2009, 80, .	3.2	134
106	Band- and momentum-dependent electron dynamics in superconducting $BaFe_2As_2$. Physical Review B, 2009, 80, .	3.2	79
107	Electronic structure of the $BaFe_2As_2$ of iron-pnictide superconductors. Physical Review B, 2009, 80, .	3.2	116

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109	Evidence for a Nodal-Line Superconducting State in LaFePO. Physical Review Letters, 2009, 102, 147001. Topological Change of the Fermi Surface in Ternary Iron Pnictides with Reduced	7.8	197
110	Haas van Alphen Study of CaFe ₂ P. Physical Review Letters, 2009, 103, 076401.	7.8	59
111	Evidence for a Nodal Energy Gap in the Iron-Pnictide Superconductor LaFePO from Penetration Depth Measurements by Scanning SQUID Susceptometry. Physical Review Letters, 2009, 103, 127003.	7.8	115
112	Directional Field-Induced Metallization of Quasi-One-Dimensional Li _{0.9} VO ₁₇ . Physical Review Letters, 2009, 102, 206602.	7.8	59
113	Tracking anisotropic scattering in overdoped Tl ₂ Ba ₂ CuO _{6+δ} above 100%K. New Journal of Physics, 2009, 11, 055057.	2.9	31
114	ARPES studies of the electronic structure of LaOFe(P,As). Physica C: Superconductivity and Its Applications, 2009, 469, 452-458.	1.2	67
115	Quantum oscillation studies of the Fermi surface of LaFePO. Physica C: Superconductivity and Its Applications, 2009, 469, 459-468.	1.2	24
116	Charge dynamics of the spin-density-wave state in BaFe ₂ As ₂ . European Physical Journal B, 2009, 67, 513-517.	1.5	23
117	Evidence for weak electronic correlations in iron pnictides. Physical Review B, 2009, 80, .	3.2	176
118	Determination of the phase diagram of the electron-doped superconductor Ba _{1-x} Fe _x As ₂ . Physical Review B, 2009, 79, .	3.2	469
119	Fermi Surface of SrFe ₂ P Determined by the de Haas van Alphen Effect. Physical Review Letters, 2009, 103, 076401.	7.8	70
120	Neutron scattering study of the interplay between structure and magnetism in Ba _{1-x} Fe _x As ₂ . Physical Review B, 2009, 79, .	3.2	170
121	Experimental Realization of a Three-Dimensional Topological Insulator, Bi ₂ Te ₃ . Science, 2009, 325, 178-181.	12.6	3,095
122	Anisotropic scattering and superconductivity in high- cuprates. Journal of Physics and Chemistry of Solids, 2008, 69, 3191-3194.	4.0	0
123	Electronic structure of the iron-based superconductor LaOFeP. Nature, 2008, 455, 81-84.	27.8	279
124	Fermi Surface of Superconducting LaFePO Determined from Quantum Oscillations. Physical Review Letters, 2008, 101, 216402.	7.8	182
125	Correlation between the Superconducting Transition Temperature and Anisotropic Quasiparticle Scattering in Tl ₂ Ba ₂ CuO _{6+δ} . Physical Review Letters, 2007, 99, 107002.	7.8	78
126	Angle-dependent magnetoresistance measurements in Tl ₂ Ba ₂ CuO _{6+δ} and the need for anisotropic scattering. Physical Review B, 2007, 76, .	3.2	32

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127	Dissipation in the superconducting state of $(\text{BEDT-TTF})_2\text{Cu}(\text{NCS})_2$. Physical Review B, 2007, 76, .	3.2	2
128	Effect of Irradiation-Induced Disorder on the Conductivity and Critical Temperature of the Organic Superconductor $(\text{BEDT-TTF})_2\text{Cu}(\text{SCN})_2$. Physical Review Letters, 2006, 96, 177002.	7.8	86
129	Shubnikov-de Haas Effect in the Metallic State of $\text{Na}_0.3\text{CoO}_2$. Physical Review Letters, 2006, 97, 126401.	7.8	29
130	Magnetic oscillations, disorder and the Hofstadter butterfly in finite systems. Synthetic Metals, 2005, 154, 265-268.	3.9	5
131	Landau levels, electric dipole transitions, and the Hofstadter butterfly in finite systems. European Physical Journal Special Topics, 2004, 114, 283-284.	0.2	2
132	Landau levels, molecular orbitals, and the Hofstadter butterfly in finite systems. American Journal of Physics, 2004, 72, 613-618.	0.7	31