

Nicholas C Plumb

List of Publications by Year in descending order

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73
papers

3,948
citations

147801

31
h-index

118850

62
g-index

73
all docs

73
docs citations

73
times ranked

5778
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic Structure of Atomically Precise Graphene Nanoribbons. ACS Nano, 2012, 6, 6930-6935.	14.6	410
2	On-Surface Synthesis and Characterization of 9-Atom Wide Armchair Graphene Nanoribbons. ACS Nano, 2017, 11, 1380-1388.	14.6	270
3	Observation of Weyl nodes and Fermi arcs in tantalum phosphide. Nature Communications, 2016, 7, 11006.	12.8	264
4	Direct observation of the spin texture in SmB ₆ as evidence of the topological Kondo insulator. Nature Communications, 2014, 5, 4566.	12.8	193
5	Surface and bulk electronic structure of the strongly correlated system SmB ₆ and implications for a topological Kondo insulator. Physical Review B, 2013, 88, .	3.2	179
6	Observation of large topologically trivial Fermi arcs in the candidate type-II Weyl semimetal WT_2Te . Physical Review B, 2016, 94, .	3.2	174
7	Tailoring the nature and strength of electron-phonon interactions in the SrTiO ₃ (001) 2D electron liquid. Nature Materials, 2016, 15, 835-839.	27.5	171
8	Laser Based Angle-Resolved Photoemission, the Sudden Approximation, and Quasiparticle-Like Spectral Peaks in Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ . Physical Review Letters, 2006, 96, 017005.	7.8	157
9	Giant spin splitting of the two-dimensional electron gas at the surface of SrTiO ₃ . Nature Materials, 2014, 13, 1085-1090.	27.5	137
10	Elemental Topological Insulator with Tunable Fermi Level: Strained In_2S_3 on InSb(001). Physical Review Letters, 2013, 111, 157205.	7.8	130
11	Observation of Fermi-Arc Spin Texture in TaAs. Physical Review Letters, 2015, 115, 217601.	7.8	115
12	Hallmarks of the Mott-metal crossover in the hole-doped pseudospin-1/2 Mott insulator Sr ₂ IrO ₄ . Nature Communications, 2016, 7, 11367.	12.8	99
13	Mixed Dimensionality of Confined Conducting Electrons in the Surface Region of SrTiO ₃ . Physical Review Letters, 2014, 113, 086801.	7.8	88
14	Rich nature of Van Hove singularities in Kagome superconductor CsV ₃ Sb ₅ . Nature Communications, 2022, 13, 2220.	12.8	87
15	The origin and non-quasiparticle nature of Fermi arcs in Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ . Nature Physics, 2012, 8, 606-610.	16.7	82
16	Selective Probing of Hidden Spin-Polarized States in Inversion-Symmetric Bulk MoS_2 . Physical Review Letters, 2017, 118, 086402.	7.8	76
17	Topological surface states and flat bands in the kagome superconductor CsV ₃ Sb ₅ . Science Bulletin, 2022, 67, 495-500.	9.0	69
18	Hallmarks of Hund's coupling in the Mott insulator Ca ₂ RuO ₄ . Nature Communications, 2017, 8, 15176.	12.8	66

#	ARTICLE	IF	CITATIONS
19	Experimental setup for low-energy laser-based angle resolved photoemission spectroscopy. Review of Scientific Instruments, 2007, 78, 053905.	1.3	64
20	Electron scattering, charge order, and pseudogap physics in $\text{La}_{1.6}\hat{x}\text{Nd}_{0.4}\text{Sr}_x\text{CuO}_4$: An angle-resolved photoemission spectroscopy study. Physical Review B, 2015, 92, . http://www.w3.org/1998/Math/MathML	3.2	56
21	Evidence for a Nodeless Gap in $\text{La}_{1-x}\text{Nd}_x\text{CuO}_4$. Physical Review Letters, 2013, 110, 047004. http://www.w3.org/1998/Math/MathML	7.8	54
22	Momentum-Resolved Electronic Structure of the High-T _c Parent Compound BaBiO_3 . Physical Review Letters, 2016, 117, 037002. http://www.w3.org/1998/Math/MathML	7.8	48
23	A novel artificial condensed matter lattice and a new platform for one-dimensional topological phases. Science Advances, 2017, 3, e1501692.	10.3	48
24	Low-Energy ($<10\hat{x}\text{meV}$) Feature in the Nodal Electron Self-Energy and Strong Temperature Dependence of the Fermi Velocity in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\hat{I}$. Physical Review Letters, 2010, 105, 046402.	7.8	45
25	An uncompensated semimetal with extremely large magnetoresistance. Physical Review B, 2017, 95, . http://www.w3.org/1998/Math/MathML	3.2	30
26	Exotic Kondo crossover in a wide temperature region in the topological Kondo insulator Sb_2Te_3 revealed by high-resolution ARPES. Physical Review B, 2014, 90, .	3.2	43
27	Observation of Weyl Nodes in Robust Type-II Weyl Semimetal WTe_2 . Physical Review Letters, 2019, 122, 176402. http://www.w3.org/1998/Math/MathML	7.8	42
28	Preparing and the \hat{x} gap in the cuprates from the tomographic density of states. Physical Review B, 2013, 87, .	3.2	41
29	Observation of a two-dimensional electron gas at the surface of annealed SrTiO_3 single crystals by scanning tunneling spectroscopy. Physical Review B, 2012, 86, . http://www.w3.org/1998/Math/MathML	3.2	40
30	Evidence of a Coulomb-Interaction-Induced Lifshitz Transition and Robust Hybrid Weyl Semimetal in TaAs . Physical Review Letters, 2018, 121, 136401. http://www.w3.org/1998/Math/MathML	7.8	37
31	Tuning the metal-insulator transition in NdNiO_3 via Fermi surface instability and spin fluctuations. Physical Review B, 2015, 92, . http://www.w3.org/1998/Math/MathML	3.2	35
32	Bulk Electronic Structure of Superconducting LaRuP Single Crystals Measured by Soft-X-Ray Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2012, 108, 257005. http://www.w3.org/1998/Math/MathML	7.8	31
33	Atomically Precise Lateral Modulation of a Two-Dimensional Electron Liquid in Anatase TiO_2 Thin Films. Nano Letters, 2017, 17, 2561-2567.	9.1	28
34	Spin Orientation of Two-Dimensional Electrons Driven by Temperature-Tunable Competition of Spin-Orbit and Exchange-Magnetic Interactions. Nano Letters, 2017, 17, 811-820.	9.1	28
35	Distinct Evolutions of Weyl Fermion Quasiparticles and Fermi Arcs with Bulk Band Topology in Weyl Semimetals. Physical Review Letters, 2017, 118, 106406. http://www.w3.org/1998/Math/MathML	7.8	27
36	Trivial topological phase of CaAgP and the topological nodal-line transition in CaAgP . Physical Review B, 2018, 97, . http://www.w3.org/1998/Math/MathML	3.2	25

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37	Dirac states with knobs on: Interplay of external parameters and the surface electronic properties of three-dimensional topological insulators. <i>Physical Review B</i> , 2015, 91, .	3.2	24
38	Accurate theoretical fits to laser-excited photoemission spectra in the normal phase of high-temperature superconductors. <i>Nature Physics</i> , 2008, 4, 210-212.	16.7	23
39	Trigger of the Ubiquitous Surface Band Bending in 3D Topological Insulators. <i>Physical Review X</i> , 2017, 7, .	8.9	22
40	Spin-Resolved Electronic Response to the Phase Transition in MoTe_2 . <i>Physical Review Letters</i> , 2018, 121, 156401.	7.8	21
41	Two-dimensional type-II Dirac fermions in layered oxides. <i>Nature Communications</i> , 2018, 9, 3252.	12.8	21
42	Tuning electronic correlations in transition metal pnictides: Chemistry beyond the valence count. <i>Physical Review B</i> , 2015, 91, .	3.2	20
43	A unified form of low-energy nodal electronic interactions in hole-doped cuprate superconductors. <i>Nature Communications</i> , 2019, 10, 5737.	12.8	20
44	Evolution of the SrTiO ₃ surface electronic state as a function of LaAlO ₃ overlayer thickness. <i>Applied Surface Science</i> , 2017, 412, 271-278.	6.1	19
45	Effects, determination, and correction of count rate nonlinearity in multi-channel analog electron detectors. <i>Review of Scientific Instruments</i> , 2014, 85, 043907.	1.3	17
46	Observation of a two-dimensional electron gas at CaTiO ₃ film surfaces. <i>Applied Surface Science</i> , 2018, 432, 41-45.	6.1	17
47	Measurement of the atomic orbital composition of the near-fermi-level electronic states in the lanthanum monpnictides LaBi, LaSb, and LaAs. <i>Npj Quantum Materials</i> , 2018, 3, .	5.2	17
48	A Pnictide Insulating Phase Induced by On-Site Coulomb Interaction. <i>Physical Review Letters</i> , 2016, 117, 097001.	7.8	16
49	Orbitally selective breakdown of Fermi liquid quasiparticles in $\text{Ca}_{1-x}\text{Sr}_x\text{TiO}_3$. <i>Physical Review B</i> , 2019, 99, .	3.2	16
50	Band structure of overdoped cuprate superconductors: Density functional theory matching experiments. <i>Physical Review B</i> , 2019, 99, .	3.2	15
51	Electronic structure studies of FeSi: A chiral topological system. <i>Physical Review B</i> , 2020, 101, .	3.2	15
52	Observation of a singular Weyl point surrounded by charged nodal walls in PtGa. <i>Nature Communications</i> , 2021, 12, 3994.	12.8	15
53	Universal Structural Influence on the 2D Electron Gas at SrTiO ₃ Surfaces. <i>Advanced Science</i> , 2021, 8, e2100602.	11.2	14
54	Camelback-shaped band reconciles heavy-electron behavior with weak electronic Coulomb correlations in superconducting TiNi_2Se_2 . <i>Physical Review B</i> , 2015, 92, .	3.2	13

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55	Internal pressure in superconducting Cu-intercalated $\text{Bi}_{2-x}\text{Mn}_x\text{Te}_2$. Physical Review B, 2016, 93, .	2.2	13
56	Electronic reconstruction forming a C2-symmetric Dirac semimetal in $\text{Ca}_3\text{Ru}_2\text{O}_7$. Npj Quantum Materials, 2021, 6, .	5.2	11
57	Orbital selective switching of ferromagnetism in an oxide quasi two-dimensional electron gas. Npj Quantum Materials, 2022, 7, .	5.2	11
58	Large momentum-dependence of the main dispersion $\tilde{\epsilon}^{\text{kink}}$ in the high- T_c superconductor $\text{Bi}_{2-x}\text{Sr}_x\text{CaCu}_2\text{O}_{8+\delta}$. New Journal of Physics, 2013, 15, 113004.	2.9	10
59	Divalent EuRh_2Si_2 as a reference for the Luttinger theorem and antiferromagnetism in trivalent heavy-fermion YbRh_2Si_2 . Nature Communications, 2019, 10, 796.	12.8	9
60	Angle-resolved photoemission spectroscopy studies of metallic surface and interface states of oxide insulators. Journal of Physics Condensed Matter, 2017, 29, 433005.	1.8	8
61	Multiple mobile excitons manifested as sidebands in quasi-one-dimensional metallic TaSe_3 . Nature Materials, 2022, 21, 423-429.	27.5	8
62	Micro-metric electronic patterning of a topological band structure using a photon beam. Scientific Reports, 2015, 5, 16309.	3.3	6
63	Influence of ferroelectric order on the surface electronic structure of BaTiO_3 studied by photoemission spectroscopy. Physical Review B, 2018, 98, .	3.2	6
64	Disclosing the response of the surface electronic structure in SrTiO_3 (001) to strain. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, .	2.1	6
65	Single spin-polarized Fermi surface in SrTiO_3 thin films. Physical Review Research, 2020, 2, .	3.6	5
66	Two-dimensional electron gas at the (001) surface of ferromagnetic EuTiO_3 . Physical Review Research, 2021, 3, .	3.6	5
67	Enhancement of oxygen isotope effect due to out-of-plane disorder in $\text{Bi}_2\text{Sr}_2\text{Ln}_{0.4}\text{CuO}_6$ superconductors. Physical Review B, 2009, 80, .	3.2	4
68	Strong- to weak-coupling superconductivity in high- T_c bismuthates: Revisiting the phase diagram via $\text{Bi}_{1-x}\text{Sb}_x\text{Te}_2$. Physical Review B, 2020, 101, .	3.2	4
69	Proximity-induced Novel Ferromagnetism Accompanied with Resolute Metallicity in NdNiO_3 Heterostructure. Advanced Science, 2021, 8, e2101516.	11.2	4
70	Giant Chern number of a Weyl nodal surface without upper limit. Physical Review B, 2022, 105, .	3.2	4
71	Isostructural metal-insulator transition driven by dimensional-crossover in SrIrO_3 heterostructures. Physical Review Materials, 2022, 6, .	2.4	3
72	Rotation symmetry breaking in $\text{La}_{1-x}\text{Pr}_x\text{O}_2$ revealed by angle-resolved photoemission spectroscopy. Physical Review B, 2017, 95, .	3.2	2

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73	Angle-resolved photoemission spectroscopy studies of metallic surface and interface states of oxide insulators (2017 <i>J. Phys.: Condens. Matter</i> 29 433005). Journal of Physics Condensed Matter, 2018, 30, 049501.	1.8	0