

Nicholas C Plumb

List of Publications by Year in descending order

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73
papers

3,948
citations

147801

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118850

62
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73
all docs

73
docs citations

73
times ranked

5778
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological surface states and flat bands in the kagome superconductor CsV3Sb5. Science Bulletin, 2022, 67, 495-500.	9.0	69
2	Disclosing the response of the surface electronic structure in SrTiO3 (001) to strain. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, .	2.1	6
3	Multiple mobile excitons manifested as sidebands in quasi-one-dimensional metallic TaSe3. Nature Materials, 2022, 21, 423-429.	27.5	8
4	Isostructural metal-insulator transition driven by dimensional-crossover in SrIrO_3 heterostructures. Physical Review Materials, 2022, 6, .	11.4	3
5	Giant Chern number of a Weyl nodal surface without upper limit. Physical Review B, 2022, 105, .	3.2	4
6	Orbital selective switching of ferromagnetism in an oxide quasi two-dimensional electron gas. Npj Quantum Materials, 2022, 7, .	5.2	11
7	Rich nature of Van Hove singularities in Kagome superconductor CsV3Sb5. Nature Communications, 2022, 13, 2220.	12.8	87
8	Electronic reconstruction forming a C2-symmetric Dirac semimetal in Ca3Ru2O7. Npj Quantum Materials, 2021, 6, .	5.2	11
9	Observation of a singular Weyl point surrounded by charged nodal walls in PtGa. Nature Communications, 2021, 12, 3994.	12.8	15
10	Proximity-Induced Novel Ferromagnetism Accompanied with Resolute Metallicity in NdNiO3 Heterostructure. Advanced Science, 2021, 8, e2101516.	11.2	4
11	Universal Structural Influence on the 2D Electron Gas at SrTiO3 Surfaces. Advanced Science, 2021, 8, e2100602.	11.2	14
12	Two-dimensional electron gas at the (001) surface of ferromagnetic EuTiO_3 . Physical Review Research, 2021, 3, .	3.6	1
13	Electronic structure studies of FeSi: A chiral topological system. Physical Review B, 2020, 101, .	3.2	15
14	Strong- to weak-coupling superconductivity in high- T_c bismuthates: Revisiting the phase diagram via $\text{Sr}_{1/4}\text{SR}$. Physical Review B, 2020, 101, .	3.2	4
15	Single spin-polarized Fermi surface in SrTiO_3 thin films. Physical Review Research, 2020, 2, .	3.6	5
16	Band structure of overdoped cuprate superconductors: Density functional theory matching experiments. Physical Review B, 2019, 99, .	3.2	15
17	Observation of Weyl Nodes in Robust Type-II Weyl Semimetal WP_2 . Physical Review Letters, 2019, 122, 176402.	7.8	42
18	Orbitally selective breakdown of Fermi liquid quasiparticles in CaCuO_2 . Physical Review B, 2019, 99, .	3.2	16

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19	Divalent EuRh ₂ Si ₂ as a reference for the Luttinger theorem and antiferromagnetism in trivalent heavy-fermion YbRh ₂ Si ₂ . Nature Communications, 2019, 10, 796.	12.8	9
20	A unified form of low-energy nodal electronic interactions in hole-doped cuprate superconductors. Nature Communications, 2019, 10, 5737.	12.8	20
21	Trivial topological phase of CaAg and the topological nodal-line transition in CaAg . Physical Review B, 2018, 97, .	3.2	25
22	Observation of a two-dimensional electron gas at CaTiO ₃ film surfaces. Applied Surface Science, 2018, 432, 41-45.	6.1	17
23	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
24	Evidence of a Coulomb-Interaction-Induced Lifshitz Transition and Robust Hybrid Weyl Semimetal in TaAs . Physical Review Letters, 2018, 121, 136401.	7.8	37
25	Spin-Resolved Electronic Response to the Phase Transition in MoTe_2 . Physical Review Letters, 2018, 121, 156401.	7.8	21
26	Influence of ferroelectric order on the surface electronic structure of BaTiO_3 studied by photoemission spectroscopy. Physical Review B, 2018, 98, .	7.8	12
27	Measurement of the atomic orbital composition of the near-fermi-level electronic states in the lanthanum monopnictides LaBi, LaSb, and LaAs. Npj Quantum Materials, 2018, 3, .	5.2	17
28	Two-dimensional type-II Dirac fermions in layered oxides. Nature Communications, 2018, 9, 3252.	12.8	21
29	On-Surface Synthesis and Characterization of 9-Atom Wide Armchair Graphene Nanoribbons. ACS Nano, 2017, 11, 1380-1388.	14.6	270
30	Distinct Evolutions of Weyl Fermion Quasiparticles and Fermi Arcs with Bulk Band Topology in Weyl Semimetals. Physical Review Letters, 2017, 118, 106406.	7.8	27
31	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
32	Selective Probing of Hidden Spin-Polarized States in Inversion-Symmetric Bulk MoS_2 . Physical Review Letters, 2017, 118, 086402.	7.8	76
33	Hallmarks of Hunds coupling in the Mott insulator Ca ₂ RuO ₄ . Nature Communications, 2017, 8, 15176.	12.8	66
34	A novel artificial condensed matter lattice and a new platform for one-dimensional topological phases. Science Advances, 2017, 3, e1501692.	10.3	48
35	Evolution of the SrTiO ₃ surface electronic state as a function of LaAlO ₃ overlayer thickness. Applied Surface Science, 2017, 412, 271-278.	6.1	19
36	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

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37	Rotation symmetry breaking in LaMnO_2 revealed by angle-resolved photoemission spectroscopy. Physical Review B, 2017, 95, .	8.9	22
38	Trigger of the Ubiquitous Surface Band Bending in 3D Topological Insulators. Physical Review X, 2017, 7, .	8.9	22
39	MoTe_2 : An uncompensated semimetal with extremely large magnetoresistance. Physical Review B, 2017, 95, .	8.9	22
40	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
41	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
42	NaFePO_5 : A Prictide Insulating Phase Induced by On-Site Coulomb Interaction. Physical Review Letters, 2016, 117, 097001.	7.8	16
43	Observation of Weyl nodes and Fermi arcs in tantalum phosphide. Nature Communications, 2016, 7, 11006.	12.8	264
44	Observation of large topologically trivial Fermi arcs in the candidate type-II Weyl semimetal WT_2e . Physical Review B, 2016, 94, .	3.2	174
45	Parent Compound BaBiO_3 . Physical Review Letters, 2016, 117, 097002.	7.8	48
46	Internal pressure in superconducting Cu-intercalated Bi_2Te_3 . Physical Review B, 2016, 93, .	2.2	11
47	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
48	Electron scattering, charge order, and pseudogap physics in $\text{La}_{1.6}\text{Nd}_{0.4}\text{Sr}_x\text{CuO}_4$: An angle-resolved photoemission spectroscopy study. Physical Review B, 2015, 92, .	3.2	56
49	Observation of Fermi-Arc Spin Texture in TaAs. Physical Review Letters, 2015, 115, 217601.	7.8	115
50	Tuning electronic correlations in transition metal pnictides: Chemistry beyond the valence count. Physical Review B, 2015, 91, .	3.2	20
51	Chemical-doped band reconciles heavy electron behavior with weak electronic Coulomb correlations in superconducting TiNi_2Se_2 . Physical Review B, 2015, 92, .	3.2	13
52	Micro-metric electronic patterning of a topological band structure using a photon beam. Scientific Reports, 2015, 5, 16309.	3.3	6
53	Dirac states with knobs on: Interplay of external parameters and the surface electronic properties of three-dimensional topological insulators. Physical Review B, 2015, 91, .	3.2	24
54	Tuning the metal-insulator transition in NdNiO_3 via Fermi surface instability and spin fluctuations. Physical Review B, 2015, 92, .	3.2	13

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55	Effects, determination, and correction of count rate nonlinearity in multi-channel analog electron detectors. Review of Scientific Instruments, 2014, 85, 043907.	1.3	17
56	Mixed Dimensionality of Confined Conducting Electrons in the Surface Region of SrTiO_3 . Physical Review Letters, 2014, 113, 086801.	7.8	88
57	Giant spin splitting of the two-dimensional electron gas at the surface of SrTiO_3 . Nature Materials, 2014, 13, 1085-1090.	27.5	137
58	Direct observation of the spin texture in SmB_6 as evidence of the topological Kondo insulator. Nature Communications, 2014, 5, 4566.	12.8	193
59	Exotic Kondo crossover in a wide temperature region in the topological Kondo insulator SmB_6 revealed by high-resolution ARPES. Physical Review B, 2014, 90, .	3.2	43
60	Elemental Topological Insulator with Tunable Fermi Level: Strained Sn on $\text{InSb}(001)$. Physical Review Letters, 2013, 111, 157205.	7.8	130
61	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
62	Large momentum-dependence of the main dispersion "kink" in the high- T_c superconductor $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. New Journal of Physics, 2013, 15, 113004.	2.9	10
63	Observation of the d - x^2-y^2 symmetry of the superconducting gap in Underdoped La_2CuO_4 . Physical Review Letters, 2013, 110, 047004.	7.8	54
64	Preparing and the "filling" gap in the cuprates from the tomographic density of states. Physical Review B, 2013, 87, .	3.2	41
65	Bulk Electronic Structure of Superconducting LaRu_2P Single Crystals Measured by Soft-X-Ray Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2012, 108, .	7.8	31
66	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, .	3.2	40
67	Electronic Structure of Atomically Precise Graphene Nanoribbons. ACS Nano, 2012, 6, 6930-6935.	14.6	410
68	The origin and non-quasiparticle nature of Fermi arcs in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. Nature Physics, 2012, 8, 606-610.	16.7	82
69	Low-Energy (<10 meV) Feature in the Nodal Electron Self-Energy and Strong Temperature Dependence of the Fermi Velocity in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. Physical Review Letters, 2010, 105, 046402.	7.8	45
70	Enhancement of oxygen isotope effect due to out-of-plane disorder in $\text{Bi}_2\text{Sr}_2\text{Ln}_{0.4}\text{CuO}_6+\delta$ superconductors. Physical Review B, 2009, 80, .	3.2	4
71	Accurate theoretical fits to laser-excited photoemission spectra in the normal phase of high-temperature superconductors. Nature Physics, 2008, 4, 210-212.	16.7	23
72	Experimental setup for low-energy laser-based angle resolved photoemission spectroscopy. Review of Scientific Instruments, 2007, 78, 053905.	1.3	64

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73	Laser Based Angle-Resolved Photoemission, the Sudden Approximation, and Quasiparticle-Like Spectral Peaks in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\delta$. Physical Review Letters, 2006, 96, 017005.	7.8	157