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List of Publications by Year in Descending Order

117 papers	7,119 citations	47 h-index	83 g-index
121 ext. papers	8,045 ext. citations	8 avg, IF	5.45 L-index

#	Paper	IF	Citations
117	Strong-coupling charge density wave in monolayer TiSe2. *2D Materials*, **2021**, 8, 015004	5.9	2
116	Tomographic mapping of the hidden dimension in quasi-particle interference. *Nature Communications*, **2021**, 12, 6739	17.4	1
115	Switching of the electron-phonon interaction in 1T-VSe2 assisted by hot carriers. *Physical Review B*, **2021**, 103,	3.3	2
114	Controlling topology with strain. *Nature Materials*, **2021**, 20, 1046-1047	27	0
113	Spectroscopic view of ultrafast charge carrier dynamics in single- and bilayer transition metal dichalcogenide semiconductors. *Journal of Electron Spectroscopy and Related Phenomena*, **2021**, 250, 147093	1.7	2
112	Angle, Spin, and Depth Resolved Photoelectron Spectroscopy on Quantum Materials. *Chemical Reviews*, **2021**, 121, 2816-2856	68.1	3
111	Ultrafast Triggering of Insulator-Metal Transition in Two-Dimensional VSe. *Nano Letters*, **2021**, 21, 1968-1975	12.5	5
110	Changes of Fermi surface topology due to the rhombohedral distortion in SnTe. *Physical Review B*, **2020**, 102,	3.3	4
109	Direct observation of the energy gain underpinning ferromagnetic superexchange in the electronic structure of CrGeTe3. *Physical Review B*, **2020**, 101,	3.3	7
108	Electronically driven spin-reorientation transition of the correlated polar metal CaRuO. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 15524-15529	11.5	9
107	The sub-band structure of atomically sharp dopant profiles in silicon. *Npj Quantum Materials*, **2020**, 5,	5	4
106	Probing spin correlations using angle-resolved photoemission in a coupled metallic/Mott insulator system. *Science Advances*, **2020**, 6, eaaz0611	14.3	12
105	Proximity-induced ferromagnetism and chemical reactivity in few-layer VSe2 heterostructures. *Physical Review B*, **2020**, 101,	3.3	12
104	Morphology control of epitaxial monolayer transition metal dichalcogenides. *Physical Review Materials*, **2020**, 4,	3.2	9
103	Distinct behavior of localized and delocalized carriers in anatase TiO2 (001) during reaction with O2. *Physical Review Materials*, **2020**, 4,	3.2	16
102	Band hybridization at the semimetal-semiconductor transition of Ta2NiSe5 enabled by mirror-symmetry breaking. *Physical Review Research*, **2020**, 2,	3.9	24
101	Direct observation of a uniaxial stress-driven Lifshitz transition in Sr2RuO4. *Npj Quantum Materials*, **2019**, 4,	5	24

100	Dual quantum confinement and anisotropic spin splitting in the multivalley semimetal PtSe2. *Physical Review B*, **2019**, 99,	3.3	13
99	On the origin of the anomalous peak in the resistivity of TiSe2. *Physical Review B*, **2019**, 99,	3.3	13
98	High-Resolution Photoemission on Sr2RuO4 Reveals Correlation-Enhanced Effective Spin-Orbit Coupling and Dominantly Local Self-Energies. *Physical Review X*, **2019**, 9,	9.1	44
97	Transient hot electron dynamics in single-layer TaS2. *Physical Review B*, **2019**, 99,	3.3	6
96	Orbital- and k_{z}-Selective Hybridization of Se 4p and Ti 3d States in the Charge Density Wave Phase of TiSe_{2}. *Physical Review Letters*, **2019**, 122, 076404	7.4	27
95	A general route to form topologically-protected surface and bulk Dirac fermions along high-symmetry lines. *Electronic Structure*, **2019**, 1, 014002	2.6	6
94	Hidden kagome-lattice picture and origin of high conductivity in delafossite PtCoO2. *Physical Review Materials*, **2019**, 3,	3.2	8
93	Weyl-like points from band inversions of spin-polarised surface states in NbGeSb. *Nature Communications*, **2019**, 10, 5485	17.4	4
92	Momentum-resolved linear dichroism in bilayer MoS2. *Physical Review B*, **2019**, 100,	3.3	7
91	Fermiology and Superconductivity of Topological Surface States in PdTe_{2}. *Physical Review Letters*, **2018**, 120, 156401	7.4	71
90	Ubiquitous formation of bulk Dirac cones and topological surface states from a single orbital manifold in transition-metal dichalcogenides. *Nature Materials*, **2018**, 17, 21-28	27	89
89	Crossover from lattice to plasmonic polarons of a spin-polarised electron gas in ferromagnetic EuO. *Nature Communications*, **2018**, 9, 2305	17.4	19
88	Electronic Structure and Enhanced Charge-Density Wave Order of Monolayer VSe. *Nano Letters*, **2018**, 18, 4493-4499	11.5	136
87	Unconventional magneto-transport in ultrapure PdCoO2 and PtCoO2. *Npj Quantum Materials*, **2018**, 3,	5	23
86	Itinerant ferromagnetism of the Pd-terminated polar surface of PdCoO. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 12956-12960	11.5	24
85	Surface atomic structure of epitaxial LaNiO3 thin films studied by in situ LEED-I(V). *Physical Review B*, **2017**, 95,	3.3	5
84	Hybrid reflections from multiple x-ray scattering in epitaxial oxide films. *Applied Physics Letters*, **2017**, 111, 131903	3.4	9
83	Maximal Rashba-like spin splitting via kinetic-energy-coupled inversion-symmetry breaking. *Nature*, **2017**, 549, 492-496	50.4	64

82	Quasi-two-dimensional Fermi surface topography of the delafossite PdRhO2. *Physical Review B*, **2017**, 96,	3.3	5
81	Spin and valley control of free carriers in single-layer WS2. *Physical Review B*, **2017**, 95,	3.3	31
80	Narrow-band anisotropic electronic structure of ReS2. *Physical Review B*, **2017**, 96,	3.3	33
79	Absence of giant spin splitting in the two-dimensional electron liquid at the surface of SrTiO3 (001). *Physical Review B*, **2016**, 93,	3.3	21
78	Strain Control of Fermiology and Many-Body Interactions in Two-Dimensional Ruthenates. *Physical Review Letters*, **2016**, 116, 197003	7.4	56
77	Ultrafast Band Structure Control of a Two-Dimensional Heterostructure. *ACS Nano*, **2016**, 10, 6315-22	16.7	69
76	Nearly-free-electron system of monolayer Na on the surface of single-crystal HfSe2. *Physical Review B*, **2016**, 94,	3.3	9
75	Spin-valley locking in the normal state of a transition-metal dichalcogenide superconductor. *Nature Communications*, **2016**, 7, 11711	17.4	61
74	Tailoring the nature and strength of electron-phonon interactions in the SrTiO3(001) 2D electron□liquid. *Nature Materials*, **2016**, 15, 835-9	27	126
73	The dynamics of ultraviolet-induced oxygen vacancy at the surface of insulating SrTiO3(0 0 1). *Applied Surface Science*, **2015**, 355, 210-212	6.7	16
72	Ramifications of optical pumping on the interpretation of time-resolved photoemission experiments on graphene. *Journal of Electron Spectroscopy and Related Phenomena*, **2015**, 200, 340-346	1.7	18
71	Hierarchical spin-orbital polarization of a giant Rashba system. *Science Advances*, **2015**, 1, e1500495	14.3	27
70	Negative electronic compressibility and tunable spin splitting in WSe2. *Nature Nanotechnology*, **2015**, 10, 1043-7	28.7	70
69	Observation of Ultrafast Free Carrier Dynamics in Single Layer MoS2. *Nano Letters*, **2015**, 15, 5883-7	11.5	106
68	Tunable carrier multiplication and cooling in graphene. *Nano Letters*, **2015**, 15, 326-31	11.5	64
67	Formation and Observation of a Quasi-Two-Dimensional dxy Electron Liquid in Epitaxially Stabilized Sr(2-x)La(x)TiO4 Thin Films. *Physical Review Letters*, **2015**, 115, 096405	7.4	13
66	Nearly free electrons in a 5d delafossite oxide metal. *Science Advances*, **2015**, 1, e1500692	14.3	42
65	Carrier-Density Control of the SrTiO3 (001) Surface 2D Electron Gas studied by ARPES. *Advanced Materials*, **2015**, 27, 3894-9	24	70

64	Quantifying electronic correlation strength in a complex oxide: A combined DMFT and ARPES study of LaNiO3. *Physical Review B*, **2015**, 92,	3.3	27
63	Interplay of spin-orbit interactions, dimensionality, and octahedral rotations in semimetallic SrIrO(3). *Physical Review Letters*, **2015**, 114, 016401	7.4	148
62	Evidence for topologically protected surface states and a superconducting phase in [Tl4](Tl(1-x)Sn(x))Te3 using photoemission, specific heat, and magnetization measurements, and density functional theory. *Physical Review Letters*, **2014**, 112, 017002	7.4	27
61	Electronic structure of a quasi-freestanding MoS monolayer. *Nano Letters*, **2014**, 14, 1312-6	11.5	110
60	Control of a two-dimensional electron gas on SrTiO(111) by atomic oxygen. *Physical Review Letters* , **2014**, 113, 177601	7.4	88
59	Direct observation of spin-polarized bulk bands in an inversion-symmetric semiconductor. *Nature Physics*, **2014**, 10, 835-839	16.2	209
58	Correlated vs. conventional insulating behavior in the Jeff=12 vs. 32 bands in the layered iridate Ba2IrO4. *Physical Review B*, **2014**, 90,	3.3	29
57	Ultrafast dynamics of massive dirac fermions in bilayer graphene. *Physical Review Letters*, **2014**, 112, 257401	7.4	82
56	Quasiparticle dynamics and spin-orbital texture of the SrTiO3 two-dimensional electron gas. *Nature Communications*, **2014**, 5, 3414	17.4	120
55	Atomic-scale control of competing electronic phases in ultrathin LaNiO *Nature Nanotechnology*, **2014**, 9, 443-7	28.7	140
54	Spectroscopic indications of polaronic behavior of the strong spin-orbit insulator Sr3Ir2O7. *Physical Review B*, **2013**, 87,	3.3	40
53	Spin-orbit splitting of the Shockley surface state on Cu(111). *Physical Review B*, **2013**, 87,	3.3	84
52	Formation of heavy d-electron quasiparticles in Sr3Ru2O7. *New Journal of Physics*, **2013**, 15, 063029	2.9	14
51	Anomalous change in dielectric constant of CaCu3Ti4O12 under violet-to-ultraviolet irradiation. *Applied Physics Letters*, **2013**, 102, 202903	3.4	19
50	Microscopic origin of electron accumulation in In2O3. *Physical Review Letters*, **2013**, 110, 056803	7.4	93
49	Optical absorption by dilute GaNSb alloys: Influence of N pair states. *Applied Physics Letters*, **2013**, 103, 042110	3.4	20
48	A tunable low-energy photon source for high-resolution angle-resolved photoemission spectroscopy. *Review of Scientific Instruments*, **2012**, 83, 113103	1.7	11
47	Subband structure of a two-dimensional electron gas formed at the polar surface of the strong spin-orbit perovskite KTaO3. *Physical Review Letters*, **2012**, 108, 117602	7.4	139

46	Self-compensation in highly n-type InN. *Applied Physics Letters*, **2012**, 101, 011903	3.4	10
45	Electronic Properties of Post-transition Metal Oxide Semiconductor Surfaces. *Springer Series in Materials Science*, **2012**, 127-145	0.9	4
44	Emergent quantum confinement at topological insulator surfaces. *Nature Communications*, **2012**, 3, 1159	17.4	199
43	Controlling bulk conductivity in topological insulators: key role of anti-site defects. *Advanced Materials*, **2012**, 24, 2154-8	24	227
42	Conductivity in transparent oxide semiconductors. *Journal of Physics Condensed Matter*, **2011**, 23, 334214	1.8	151
41	Large tunable Rashba spin splitting of a two-dimensional electron gas in Bi2Se3. *Physical Review Letters*, **2011**, 107, 096802	7.4	351
40	Structural origin of apparent Fermi surface pockets in angle-resolved photoemission of Bi2Sr(2-x)La(x)CuO(6+δ). *Physical Review Letters*, **2011**, 106, 127005	7.4	36
39	Creation and control of a two-dimensional electron liquid at the bare SrTiO3 surface. *Nature Materials*, **2011**, 10, 114-8	27	401
38	Electron mobility in CdO films. *Journal of Applied Physics*, **2011**, 109, 073712	2.5	45
37	Surface, bulk, and interface electronic properties of nonpolar InN. *Applied Physics Letters*, **2010**, 97, 112103	3.4	26
36	Strong electron correlations in the normal state of the iron-based FeSe0.42Te0.58 superconductor observed by angle-resolved photoemission spectroscopy. *Physical Review Letters*, **2010**, 104, 097002	7.4	174
35	Surface band-gap narrowing in quantized electron accumulation layers. *Physical Review Letters*, **2010**, 104, 256803	7.4	80
34	Coexistence of the topological state and a two-dimensional electron gas on the surface of Bi(2)Se(3). *Nature Communications*, **2010**, 1, 128	17.4	361
33	Observation of shallow-donor muonium in Ga2O3: Evidence for hydrogen-induced conductivity. *Applied Physics Letters*, **2010**, 96, 062110	3.4	61
32	The influence of Sn doping on the growth of In2O3 on Y-stabilized ZrO2(100) by oxygen plasma assisted molecular beam epitaxy. *Journal of Applied Physics*, **2009**, 106, 013703	2.5	38
31	Unification of the electrical behavior of defects, impurities, and surface states in semiconductors: Virtual gap states in CdO. *Physical Review B*, **2009**, 79,	3.3	69
30	The donor nature of muonium in undoped, heavily n-type and p-type InAs. *Journal of Physics Condensed Matter*, **2009**, 21, 075803	1.8	1
29	Surface electronic properties of Mg-doped InAlN alloys. *Physica Status Solidi (B): Basic Research*, **2009**, 246, 1169-1172	1.3	2

28	Valence-band electronic structure of CdO, ZnO, and MgO from x-ray photoemission spectroscopy and quasi-particle-corrected density-functional theory calculations. *Physical Review B*, **2009**, 79,	3.3	106
27	Unintentional conductivity of indium nitride: transport modelling and microscopic origins. *Journal of Physics Condensed Matter*, **2009**, 21, 174201	1.8	35
26	Surface Structure and Electronic Properties of In2O3(111) Single-Crystal Thin Films Grown on Y-Stabilized ZrO2(111). *Chemistry of Materials*, **2009**, 21, 4353-4355	9.6	51
25	Shallow donor state of hydrogen in In2O3 and SnO2: Implications for conductivity in transparent conducting oxides. *Physical Review B*, **2009**, 80,	3.3	116
24	Band gap, electronic structure, and surface electron accumulation of cubic and rhombohedral In2O3. *Physical Review B*, **2009**, 79,	3.3	323
23	Bandgap and effective mass of epitaxial cadmium oxide. *Applied Physics Letters*, **2008**, 92, 022101	3.4	140
22	Band bending at the surfaces of In-rich InGaN alloys. *Journal of Applied Physics*, **2008**, 104, 113716	2.5	32
21	InN/GaN valence band offset: High-resolution x-ray photoemission spectroscopy measurements. *Physical Review B*, **2008**, 78,	3.3	118
20	Valence band offset of the ZnO/AlN heterojunction determined by x-ray photoemission spectroscopy. *Applied Physics Letters*, **2008**, 93, 202108	3.4	69
19	Response to Comment on Bandgap and effective mass determination of epitaxial cadmium oxide[Appl. Phys. Lett. 92, 106103 (2008)]. *Applied Physics Letters*, **2008**, 92, 106104	3.4	1
18	Observation of quantized subband states and evidence for surface electron accumulation in CdO from angle-resolved photoemission spectroscopy. *Physical Review B*, **2008**, 78,	3.3	70
17	Influence of growth conditions and polarity on interface-related electron density in InN. *Journal of Applied Physics*, **2008**, 104, 103703	2.5	15
16	Surface electronic properties of undoped InAlN alloys. *Applied Physics Letters*, **2008**, 92, 172105	3.4	17
15	Surface electronic properties of clean and S-terminated InSb(001) and (111)B. *Journal of Applied Physics*, **2008**, 104, 083709	2.5	17
14	Surface electron accumulation and the charge neutrality level in In2O3. *Physical Review Letters*, **2008**, 101, 116808	7.4	217
13	Determination of the branch-point energy of InN: Chemical trends in common-cation and common-anion semiconductors. *Physical Review B*, **2008**, 77,	3.3	96
12	Valence band density of states of zinc-blende and wurtzite InN from x-ray photoemission spectroscopy and first-principles calculations. *Physical Review B*, **2008**, 77,	3.3	37
11	Nonparabolic coupled Poisson-Schrdinger solutions for quantized electron accumulation layers: Band bending, charge profile, and subbands at InN surfaces. *Physical Review B*, **2008**, 77,	3.3	67

10	Surface electronic properties of n- and p-type InGaN alloys. *Physica Status Solidi (B): Basic Research*, **2008**, 245, 881-883	1.3	16
9	The influence of conduction band plasmons on core-level photoemission spectra of InN. *Surface Science*, **2008**, 602, 871-875	1.8	29
8	Variation of band bending at the surface of Mg-doped InGaN: Evidence of p-type conductivity across the composition range. *Physical Review B*, **2007**, 75,	3.3	53
7	In-adlayers on non-polar and polar InN surfaces: Ion scattering and photoemission studies. *Physica B: Condensed Matter*, **2007**, 401-402, 351-354	2.8	12
6	Universality of electron accumulation at wurtzite c- and a-plane and zinc-blende InN surfaces. *Applied Physics Letters*, **2007**, 91, 092101	3.4	96
5	In adlayers on c-plane InN surfaces: A polarity-dependent study by x-ray photoemission spectroscopy. *Physical Review B*, **2007**, 76,	3.3	64
4	Valence band offset of InN/AlN heterojunctions measured by x-ray photoelectron spectroscopy. *Applied Physics Letters*, **2007**, 90, 132105	3.4	81
3	X-ray photoemission spectroscopy determination of the InN/yttria stabilized cubic-zirconia valence band offset. *Applied Physics Letters*, **2007**, 91, 112103	3.4	18
2	Acoustic band gaps in periodically and quasiperiodically modulated waveguides. *Journal of Applied Physics*, **2007**, 102, 014902	2.5	41
1	Mechanisms in the Formation of High Quality Schottky Contacts to n-type ZnO. *Materials Research Society Symposia Proceedings*, **2007**, 1035, 1		1