

Z-X Shen

List of Publications by Year in descending order

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461
papers

54,942
citations

1163

111
h-index

1381

222
g-index

467
all docs

467
docs citations

467
times ranked

28171
citing authors

#	ARTICLE	IF	CITATIONS
1	Angle-resolved photoemission studies of the cuprate superconductors. <i>Reviews of Modern Physics</i> , 2003, 75, 473-541.	16.4	3,191
2	Experimental Realization of a Three-Dimensional Topological Insulator, Bi_2Te_3 . <i>Science</i> , 2009, 325, 178-181.	6.0	3,095
3	Discovery of a Three-Dimensional Topological Dirac Semimetal, Na_3Bi . <i>Science</i> , 2014, 343, 864-867.	6.0	1,889
4	Giant bandgap renormalization and excitonic effects in a monolayer transition metal dichalcogenide semiconductor. <i>Nature Materials</i> , 2014, 13, 1091-1095.	13.3	1,470
5	Evidence for ubiquitous strong electron-phonon coupling in high-temperature superconductors. <i>Nature</i> , 2001, 412, 510-514.	13.7	1,246
6	A stable three-dimensional topological Dirac semimetal Cd_3As_2 . <i>Nature Materials</i> , 2014, 13, 677-681.	13.3	1,242
7	Direct observation of the transition from indirect to direct bandgap in atomically thin epitaxial MoSe_2 . <i>Nature Nanotechnology</i> , 2014, 9, 111-115.	15.6	1,129
8	Massive Dirac Fermion on the Surface of a Magnetically Doped Topological Insulator. <i>Science</i> , 2010, 329, 659-662.	6.0	1,051
9	Excitation Gap in the Normal State of Underdoped $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Science</i> , 1996, 273, 325-329.	6.0	874
10	Anomalously large gap anisotropy in the b -plane of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Physical Review Letters</i> , 1993, 70, 1553-1556.	2.9	845
11	Aharonov-Bohm interference in topological insulator nanoribbons. <i>Nature Materials</i> , 2010, 9, 225-229.	13.3	727
12	Unconventional Electronic Structure Evolution with Hole Doping in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$: Angle-Resolved Photoemission Results. <i>Physical Review Letters</i> , 1996, 76, 4841-4844.	2.9	599
13	Quantum spin Hall state in monolayer $1\text{T}'\text{-WTe}_2$. <i>Nature Physics</i> , 2017, 13, 683-687.	6.5	596
14	Electronic structure and photoemission studies of late transition-metal oxides – Mott insulators and high-temperature superconductors. <i>Physics Reports</i> , 1995, 253, 1-162.	10.3	569
15	Interfacial mode coupling as the origin of the enhancement of T_c in FeSe films on SrTiO_3 . <i>Nature</i> , 2014, 515, 245-248.	13.7	567
16	Characterization of collective ground states in single-layer NbSe_2 . <i>Nature Physics</i> , 2016, 12, 92-97.	6.5	536
17	Key features in the measured band structure of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$: Flat bands at E_F and Fermi surface nesting. <i>Physical Review Letters</i> , 1993, 71, 2781-2784.	2.9	485
18	STM Imaging of Electronic Waves on the Surface of Bi_2Te_3 : Topologically Protected Surface States and Hexagonal Warping Effects. <i>Physical Review Letters</i> , 2010, 104, 016401.	2.9	464

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19	Symmetry-breaking orbital anisotropy observed for detwinned Ba(Fe _{1-x} Co _x) ₂ TiO ₇ . <i>Physical Review Letters</i> , 2011, 106, 126803. the National Academy of Sciences of the United States of America, 2011, 108, 6878-6883.	3.3	464
20	Creation and control of a two-dimensional electron liquid at the bare SrTiO ₃ surface. <i>Nature Materials</i> , 2011, 10, 114-118.	13.3	448
21	Photon-enhanced thermionic emission for solar concentrator systems. <i>Nature Materials</i> , 2010, 9, 762-767.	13.3	442
22	Quantum Hall Effect from the Topological Surface States of Strained Bulk HgTe. <i>Physical Review Letters</i> , 2011, 106, 126803.	2.9	427
23	Bulk Fermi surface coexistence with Dirac surface state in Bi ₂ Se ₃ . A comparison of photoemission and Shubnikov-de Haas measurements. <i>Physical Review B</i> , 2010, 81, .	1.1	425
24	Transient Electronic Structure and Melting of a Charge Density Wave in TbTe ₃ . <i>Science</i> , 2008, 321, 1649-1652.	6.0	417
25	Effect of chemical inhomogeneity in bismuth-based copper oxide superconductors. <i>Physical Review B</i> , 2004, 69, .	1.1	410
26	Anderson Hamiltonian description of the experimental electronic structure and magnetic interactions of copper oxide superconductors. <i>Physical Review B</i> , 1987, 36, 8414-8428.	1.1	401
27	Doping Dependence of ant-Type Cuprate Superconductor Investigated by Angle-Resolved Photoemission Spectroscopy. <i>Physical Review Letters</i> , 2002, 88, 257001.	2.9	379
28	Observation of Spin-Charge Separation in One-Dimensional SrCuO ₂ . <i>Physical Review Letters</i> , 1996, 77, 4054-4057.	2.9	355
29	Abrupt onset of a second energy gap at the superconducting transition of underdoped Bi ₂ Te ₂ . <i>Nature</i> , 2007, 450, 81-84.	13.7	345
30	Ambipolar field effect in the ternary topological insulator (Bi _x Sb _{1-x}) ₂ Te ₃ by composition tuning. <i>Nature Nanotechnology</i> , 2011, 6, 705-709.	15.6	345
31	Distinct Fermi-Momentum-Dependent Energy Gaps in Deeply Underdoped Bi ₂ Te ₂ . <i>Science</i> , 2006, 314, 1910-1913.	6.0	337
32	Nodal Quasiparticles and Antinodal Charge Ordering in Ca _{2-x} NaxCuO ₂ Cl ₂ . <i>Science</i> , 2005, 307, 901-904.	6.0	320
33	Rapid Surface Oxidation as a Source of Surface Degradation Factor for Bi ₂ Se ₃ . <i>ACS Nano</i> , 2011, 5, 4698-4703.	7.3	320
34	Ultrafast Optical Excitation of a Persistent Surface-State Population in the Topological Insulator Bi ₂ Se ₃ . <i>Physical Review Letters</i> , 2012, 108, 117403.	2.9	313
35	Topological insulator nanostructures for near-infrared transparent flexible electrodes. <i>Nature Chemistry</i> , 2012, 4, 281-286.	6.6	309
36	Topological Insulator Nanowires and Nanoribbons. <i>Nano Letters</i> , 2010, 10, 329-333.	4.5	298

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37	From a Single-Band Metal to a High-Temperature Superconductor via Two Thermal Phase Transitions. Science, 2011, 331, 1579-1583.	6.0	292
38	Universal nodal Fermi velocity. Nature, 2003, 423, 398-398.	13.7	291
39	Doping-dependent evolution of the electronic structure of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ in the superconducting and metallic phases. Physical Review B, 2002, 65, .	1.1	288
40	Evidence for an Energy Scale for Quasiparticle Dispersion in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$. Physical Review Letters, 2000, 85, 2581-2584.	2.9	284
41	Three-dimensional charge density wave order in $\text{YBa}_2\text{Cu}_3\text{O}_{6.67}$ at high magnetic fields. Science, 2015, 350, 949-952.	6.0	280
42	Electronic structure of the iron-based superconductor LaOFeP . Nature, 2008, 455, 81-84.	13.7	279
43	Energy gaps in high-transition-temperature cuprate superconductors. Nature Physics, 2014, 10, 483-495.	6.5	256
44	Momentum, Temperature, and Doping Dependence of Photoemission Lineshape and Implications for the Nature of the Pairing Potential in High-Tc Superconducting Materials. Physical Review Letters, 1997, 78, 1771-1774.	2.9	253
45	Anomalous spectral weight transfer at the superconducting transition of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. Physical Review Letters, 1991, 66, 2160-2163.	2.9	248
46	Monochromatic Electron Photoemission from Diamondoid Monolayers. Science, 2007, 316, 1460-1462.	6.0	248
47	Photoemission Evidence for a Remnant Fermi Surface and a d-Wave-Like Dispersion in Insulating $\text{Ca}_2\text{CuO}_2\text{Cl}_2$. , 1998, 282, 2067-2072.		246
48	Photoemission Studies of High-Tc Superconductors: The Superconducting Gap. Science, 1995, 267, 343-350.	6.0	245
49	Missing Quasiparticles and the Chemical Potential Puzzle in the Doping Evolution of the Cuprate Superconductors. Physical Review Letters, 2004, 93, 267002.	2.9	242
50	Signature of Superfluid Density in the Single-Particle Excitation Spectrum of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. Science, 2000, 289, 277-281.	6.0	240
51	Systematics of the Photoemission Spectral Function of Cuprates: Insulators and Hole- and Electron-Doped Superconductors. Physical Review Letters, 1998, 80, 4245-4248.	2.9	236
52	Fermi Surface, Surface States, and Surface Reconstruction in Sr_2RuO_4 . Physical Review Letters, 2000, 85, 5194-5197.	2.9	235
53	Angle-resolved photoemission studies of quantum materials. Reviews of Modern Physics, 2021, 93, .	16.4	230
54	Bilayer Splitting in the Electronic Structure of Heavily Overdoped $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. Physical Review Letters, 2001, 86, 5550-5553.	2.9	227

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55	High Reversibility of Lattice Oxygen Redox Quantified by Direct Bulk Probes of Both Anionic and Cationic Redox Reactions. <i>Joule</i> , 2019, 3, 518-541.	11.7	225
56	Nodal quasiparticle in pseudogapped colossal magnetoresistive manganites. <i>Nature</i> , 2005, 438, 474-478.	13.7	223
57	Phase competition in trisected superconducting dome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18332-18337.	3.3	222
58	Anisotropic Electron-Phonon Interaction in the Cuprates. <i>Physical Review Letters</i> , 2004, 93, 117004.	2.9	221
59	In-plane electronic anisotropy of underdoped $\sim 122\text{-}\text{Fe}$ -arsenide superconductors revealed by measurements of detwinned single crystals. <i>Reports on Progress in Physics</i> , 2011, 74, 124506.	8.1	214
60	Coupling of the B_{1g} Phonon to the Antinodal Electronic States of $\text{Bi}_2\text{Sr}_2\text{Ca}_{0.92}\text{Y}_{0.08}\text{Cu}_2\text{O}_8$. <i>Physical Review Letters</i> , 2004, 93, 117003.	2.9	210
61	Charge density wave order in 1D mirror twin boundaries of single-layer MoSe_2 . <i>Nature Physics</i> , 2016, 12, 751-756.	6.5	209
62	Systematic doping evolution of the underlying Fermi surface of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. <i>Physical Review B</i> , 2006, 74, .	1.1	208
63	One-Dimensional Electronic Structure and Suppression of d-Wave Node State in $(\text{La}_{1.28}\text{Nd}_{0.6}\text{Sr}_{0.12})\text{CuO}_4$. <i>Science</i> , 1999, 286, 268-272.	6.0	207
64	Electronic structure of the parent compound of superconducting infinite-layer nickelates. <i>Nature Materials</i> , 2020, 19, 381-385.	13.3	205
65	HfSe_2 and ZrSe_2 : Two-dimensional semiconductors with native high- κ oxides. <i>Science Advances</i> , 2017, 3, e1700481.	4.7	197
66	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
67	Electronic Structure of Mott Insulators Studied by Inelastic X-ray Scattering. <i>Science</i> , 2000, 288, 1811-1814.	6.0	193
68	Distinct spinon and holon dispersions in photoemission spectral functions from one-dimensional SrCuO_2 . <i>Nature Physics</i> , 2006, 2, 397-401.	6.5	193
69	k -Dependent Electronic Structure, a Large Co -Fermi Surface, and a Pseudogap in a Layered Magnetoresistive Oxide. <i>Physical Review Letters</i> , 1998, 81, 192-195.	2.9	192
70	Mesoscopic Percolating Resistance Network in a Strained Manganite Thin Film. <i>Science</i> , 2010, 329, 190-193.	6.0	192
71	Anomalous Hall effect in ZrTe_5 . <i>Nature Physics</i> , 2018, 14, 451-455.	6.5	192
72	Photoemission study of CoO . <i>Physical Review B</i> , 1990, 42, 1817-1828.	1.1	191

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73	Fermi surface and electronic structure of $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$. Physical Review Letters, 1993, 70, 3159-3162.	2.9	188
74	Spin-dependent electron attenuation by transmission through thin ferromagnetic films. Physical Review Letters, 1991, 66, 504-507.	2.9	182
75	Observation of Temperature-Induced Crossover to an Orbital-Selective Mott Phase in $\text{A}_x\text{Fe}_{1-x}\text{O}$		

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91	Superconducting Gap and Strong In-Plane Anisotropy in Untwinned $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$. Physical Review Letters, 2001, 86, 4370-4373.	2.9	150
92	Observation of universal strong orbital-dependent correlation effects in iron chalcogenides. Nature Communications, 2015, 6, 7777.	5.8	148
93	Electronic Structure, Surface Doping, and Optical Response in Epitaxial WSe_2 Thin Films. Nano Letters, 2016, 16, 2485-2491.	4.5	147
94	A review of electron-phonon coupling seen in the high- T_c superconductors by angle-resolved photoemission studies (ARPES). Physica Status Solidi (B): Basic Research, 2005, 242, 11-29.	0.7	142
95	Direct Optical Coupling to an Unoccupied Dirac Surface State in the Topological Insulator Bi_2Se_3 . Physical Review Letters, 2013, 111, 136802.	2.9	142
96	Angle-resolved-photoemission study of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$: Metallicity of the Bi-O plane. Physical Review Letters, 1990, 65, 3056-3059.	2.9	141
97	Probing the Role of Interlayer Coupling and Coulomb Interactions on Electronic Structure in Few-Layer MoSe_2 Nanostructures. Nano Letters, 2015, 15, 2594-2599.	4.5	136
98	Unconventional electronic reconstruction in undoped BaBiO_3 the spin density wave transition. Physical Review B, 2009, 80, .	1.1	134
99	Angle-resolved photoemission on untwinned $\text{YBa}_2\text{Cu}_3\text{O}_{6.95}$. I. Electronic structure and dispersion relations of surface and bulk bands. Physical Review B, 1998, 57, 6090-6106.	1.1	133
100	Low-energy electronic structure of the high- T_c cuprates $\text{La}_2\text{SrxCuO}_4$ studied by angle-resolved photoemission spectroscopy. Journal of Physics Condensed Matter, 2007, 19, 125209.	0.7	132
101	Modeling and characterization of a cantilever-based near-field scanning microwave impedance microscope. Review of Scientific Instruments, 2008, 79, 063703.	0.6	131
102	Fermi Surface Reconstruction in the CDW State of CeTe_3 Observed by Photoemission. Physical Review Letters, 2004, 93, 126405.	2.9	130
103	Role of the orbital degree of freedom in iron-based superconductors. Npj Quantum Materials, 2017, 2, .	1.8	127
104	Strong correlations and orbital texture in single-layer 1T-TaSe_2 . Nature Physics, 2020, 16, 218-224.	6.5	126
105	Hierarchy of multiple many-body interaction scales in high-temperature superconductors. Physical Review B, 2007, 75, .	1.1	124
106	Electronic Structure of MgB_2 from Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2002, 88, 157002.	2.9	121
107	Photoemission studies of high-temperature superconductors. Surface Science Reports, 1990, 11, 1-137.	3.8	119
108	Systematic study of electron-phonon coupling to oxygen modes across the cuprates. Physical Review B, 2010, 82, .	1.1	119

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109	Dichotomy between Nodal and Antinodal Quasiparticles in Underdoped $(\text{La}_{2-x}\text{Sr}_x)\text{CuO}_4$ Superconductors. Physical Review Letters, 2004, 92, 187001.	2.9	118
110	Electronic structure of the BaFe_2As_2 of iron-pnictide superconductors. Physical Review B, 2009, 80, .	2.9	116
111	Space charge effect and mirror charge effect in photoemission spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2005, 142, 27-38.	0.8	115
112	Fermi Surface and Band Dispersion in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. Journal of the Physical Society of Japan, 1999, 68, 1496-1499.	0.7	113
113	Imaging quantum spin Hall edges in monolayer WTe_2 . Science Advances, 2019, 5, eaat8799.	4.7	113
114	Strongly Cavity-Enhanced Spontaneous Emission from Silicon-Vacancy Centers in Diamond. Nano Letters, 2018, 18, 1360-1365.	4.5	112
115	Widespread spin polarization effects in photoemission from topological insulators. Physical Review B, 2011, 84, .	1.1	111
116	ARPES studies of cuprate Fermiology: superconductivity, pseudogap and quasiparticle dynamics. New Journal of Physics, 2010, 12, 105008.	1.2	110
117	Magnetic excitations in infinite-layer nickelates. Science, 2021, 373, 213-216.	6.0	110
118	Persistent Charge-Density-Wave Order in Single-Layer TaSe_2 . Nano Letters, 2018, 18, 689-694.	4.5	108
119	Electronic structure of the quenched superconductivity materials $\text{Y}_{1-x}\text{Pr}_x\text{Ba}_2\text{Cu}_3\text{O}_{7-\delta}$. Journal of the Less Common Metals, 1989, 148, 121-132.	0.9	107
120	Observation of topologically protected states at crystalline phase boundaries in single-layer WSe_2 . Nature Communications, 2018, 9, 3401.	5.8	107
121	Asymmetry of collective excitations in electron- and hole-doped cuprate superconductors. Nature Physics, 2014, 10, 883-889.	6.5	106
122	Raman scattering investigations of the antiferroelectric-ferroelectric phase transition of NaNbO_3 . Journal of Raman Spectroscopy, 1998, 29, 379-384.	1.2	104
123	Polaronic Behavior of Undoped High-Tc Cuprate Superconductors from Angle-Resolved Photoemission Spectra. Physical Review Letters, 2005, 95, 227002.	2.9	104
124	Anomalous high-energy dispersion in angle-resolved photoemission spectra from the insulating cuprate $\text{Ca}_2\text{CuO}_2\text{Cl}_2$. Physical Review B, 2005, 71, .	1.1	103
125	Atomic-force-microscope-compatible near-field scanning microwave microscope with separated excitation and sensing probes. Review of Scientific Instruments, 2007, 78, 063702.	0.6	103
126	Distinguishing Bulk and Surface Electron-Phonon Coupling in the Topological Insulator Bi_2Te_3 Time-Resolved Photoemission Spectroscopy. Physical Review Letters, 2014, 113, 157401.	2.9	103

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127	Band Structure and Fermi Surface of Electron-Doped C60 Monolayers. <i>Science</i> , 2003, 300, 303-307.	6.0	102
128	Modification of Transition-Metal Redox by Interstitial Water in Hexacyanometalate Electrodes for Sodium-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2017, 139, 18358-18364.	6.6	102
129	Unexpected edge conduction in mercury telluride quantum wells under broken time-reversal symmetry. <i>Nature Communications</i> , 2015, 6, 7252.	5.8	101
130	Dispersive charge density wave excitations in Bi2Sr2CaCu2O8+ δ . <i>Nature Physics</i> , 2017, 13, 952-956.	6.5	101
131	Three-dimensional collective charge excitations in electron-doped copper oxide superconductors. <i>Nature</i> , 2018, 563, 374-378.	13.7	100
132	Pseudogap, Superconducting Gap, and Fermi Arc in High- T_c Cuprates Revealed by Angle-Resolved Photoemission Spectroscopy. <i>Journal of the Physical Society of Japan</i> , 2012, 81, 011006.	0.7	99
133	Measurement of an Anisotropic Energy Gap in Single Plane Bi2Sr2 δ -xLa _x CuO6+ δ . <i>Physical Review Letters</i> , 1997, 79, 143-146.	2.9	98
134	Doping Dependence of the Coupling of Electrons to Bosonic Modes in the Single-Layer High-Temperature Bi2Sr2CuO6 Superconductor. <i>Physical Review Letters</i> , 2006, 96, 157003.	2.9	98
135	Rapid change of superconductivity and electron-phonon coupling through critical doping in Bi-2212. <i>Science</i> , 2018, 362, 62-65.	6.0	98
136	Separation of spin and charge excitations in one-dimensional SrCuO2. <i>Physical Review B</i> , 1997, 56, 15589-15595.	1.1	95
137	Raman characterization of germanium nanocrystals in amorphous silicon oxide films synthesized by rapid thermal annealing. <i>Journal of Applied Physics</i> , 1999, 86, 1398-1403.	1.1	95
138	Electronic Structure of the Trilayer Cuprate Superconductor Bi2Sr2Ca2Cu3O10+ δ . <i>Physical Review Letters</i> , 2002, 88, 107001.	2.9	95
139	Fermi Surface and van Hove Singularities in the Itinerant Metamagnet $R_{1-x}G_xO_{7-\delta}$. <i>Physical Review Letters</i> , 2008, 101, 026407.	2.9	94
140	Energy gaps in the failed high- T_c superconductor La1.875Ba0.125CuO4. <i>Nature Physics</i> , 2009, 5, 119-123.	6.5	94
141	Layered Ruthenium Oxides: From Band Metal to Mott Insulator. <i>Physical Review Letters</i> , 1998, 81, 2747-2750.	2.9	93
142	Superconducting Gap Anisotropy in Monolayer FeSe Thin Film. <i>Physical Review Letters</i> , 2016, 117, 117001.	2.9	93
143	Dual Nature of the Electronic Structure of (La2 δ -x δ yNd _x Sr _y)CuO4 and La1.85Sr0.15CuO4. <i>Physical Review Letters</i> , 2001, 86, 5578-5581.	2.9	92
144	Doping-Dependent Nodal Fermi Velocity of the High-Temperature Superconductor Bi2Sr2CuO8+ δ Using High-Resolution Angle-Resol. <i>Physical Review Letters</i> , 2010, 104, 207002.	2.9	92

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145	Direct spectroscopic evidence for phase competition between the pseudogap and superconductivity in Bi ₂ Sr ₂ CaCu ₂ O ₈ +f. Nature Materials, 2015, 14, 37-42.	13.3	92
146	Nanoscale Electronic Inhomogeneity in In ₂ Se ₃ Nanoribbons Revealed by Microwave Impedance Microscopy. Nano Letters, 2009, 9, 1265-1269.	4.5	91
147	Superconducting graphene sheets in CaC ₆ enabled by phonon-mediated interband interactions. Nature Communications, 2014, 5, 3493.	5.8	91
148	Cycling mechanism of Li ₂ MnO ₃ : Li ⁺ CO ₂ batteries and commonality on oxygen redox in cathode materials. Joule, 2021, 5, 975-997.	11.7	88
149	Aspects of the correlation effects, antiferromagnetic order, and translational symmetry of the electronic structure of NiO and CoO. Physical Review Letters, 1990, 64, 2442-2445.	2.9	87
150	Electronic reconstruction through the structural and magnetic transitions in detwinned NaFeAs. New Journal of Physics, 2012, 14, 073019.	1.2	87
151	Direct Observation of the Mass Renormalization in SrVO ₃ by Angle Resolved Photoemission Spectroscopy. Physical Review Letters, 2005, 95, 146404.	2.9	86
152	Coexistence of Replica Bands and Superconductivity in FeSe Monolayer Films. Physical Review Letters, 2017, 118, 067002.	2.9	86
153	Incoherent strange metal sharply bounded by a critical doping in Bi ₂ Tl ₂ . Science, 2019, 366, 1099-1102.	6.0	86
154	Phase fluctuations and the absence of topological defects in a photo-excited charge-ordered nickelate. Nature Communications, 2012, 3, 838.	5.8	85
155	Complete band-structure determination of the quasi-two-dimensional Fermi-liquid reference compound TiTe ₂ . Physical Review B, 1996, 54, 2453-2465.	1.1	83
156	Evolution of a metal to insulator transition in Ca _{2-x} NaxCuO ₂ Cl ₂ as seen by angle-resolved photoemission. Physical Review B, 2003, 67, .	1.1	83
157	Charge Dynamics of Doped Holes in High-T _c Cuprate Superconductors: A Clue from Optical Conductivity. Physical Review Letters, 2008, 100, 166401.	2.9	83
158	Ideal charge-density-wave order in the high-field state of superconducting YBCO. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14645-14650.	3.3	83
159	Momentum-Resolved Charge Excitations in a Prototype One-Dimensional Mott Insulator. Physical Review Letters, 2002, 88, 177403.	2.9	82
160	Examining Electron-Boson Coupling Using Time-Resolved Spectroscopy. Physical Review X, 2013, 3, .	2.8	82
161	Dissociate lattice oxygen redox reactions from capacity and voltage drops of battery electrodes. Science Advances, 2020, 6, eaaw3871.	4.7	82
162	Direct Extraction of the Eliashberg Function for Electron-Phonon Coupling: A Case Study of Be(101Å ⁰). Physical Review Letters, 2004, 92, 186401.	2.9	81

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163	Distinctive orbital anisotropy observed in the nematic state of a FeSe thin film. Physical Review B, 2016, 94, .	1.1	80
164	Pressure-induced strong mode coupling and phase transitions in KNbO ₃ . Physical Review B, 1995, 52, 3976-3980.	1.1	79
165	Hybrid metal-organic chalcogenide nanowires with electrically conductive inorganic core through diamondoid-directed assembly. Nature Materials, 2017, 16, 349-355.	13.3	79
166	Distinct Electronic Structure for the Extreme Magnetoresistance in YSb. Physical Review Letters, 2016, 117, 267201.	2.9	77
167	Modular soft x-ray spectrometer for applications in energy sciences and quantum materials. Review of Scientific Instruments, 2017, 88, 013110.	0.6	77
168	Engineering Ultra-Low Work Function of Graphene. Nano Letters, 2015, 15, 6475-6480.	4.5	75
169	Effects of next-nearest-neighbor hopping t_2 on the electronic structure of cuprate superconductors. Physical Review B, 2004, 70, .	1.1	74
170	Three-dimensional nature of the band structure of $ZrTe_5$ measured by high-momentum-resolution photoemission spectroscopy. Physical Review B, 2017, 95, .	1.1	74
171	Evidence for quantum spin liquid behaviour in single-layer 1T-TaSe ₂ from scanning tunnelling microscopy. Nature Physics, 2021, 17, 1154-1161.	6.5	74
172	Fermi surface evolution across multiple charge density wave transitions in $ErTe_3$. Physical Review B, 2010, 81, .	1.1	73
173	Nanoscale microwave microscopy using shielded cantilever probes. Applied Nanoscience (Switzerland), 2011, 1, 13-18.	1.6	73
174	Evidence for k-dependent, in-plane anisotropy of the superconducting gap in Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ . Physical Review B, 1992, 46, 11830-11834.	1.1	72
175	Ultrathin single-crystal ZnO nanobelts: Ag-catalyzed growth and field emission property. Nanotechnology, 2010, 21, 255701.	1.3	72
176	Discovery of a single topological Dirac fermion in the strong inversion asymmetric compound BiTeCl. Nature Physics, 2013, 9, 704-708.	6.5	72
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