

Z-X Shen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

452
papers

46,019
citations

105
h-index

204
g-index

466
ext. papers

50,810
ext. citations

9.3
avg, IF

7.04
L-index

#	Paper	IF	Citations
452	Unconventional spectral signature of T in a pure d-wave superconductor.. <i>Nature</i> , 2022 , 601, 562-567	50.4	1
451	Unconventional Hysteretic Transition in a Charge Density Wave.. <i>Physical Review Letters</i> , 2022 , 128, 036401	40.1	1
450	Large-gap insulating dimer ground state in monolayer IrTe.. <i>Nature Communications</i> , 2022 , 13, 906	17.4	1
449	Laser-induced patterning for a diffraction grating using the phase change material of Ge ₂ Sb ₂ Te ₅ (GST) as a spatial light modulator in X-ray optics: a proof of concept. <i>Optical Materials Express</i> , 2022 , 12, 1408	2.6	
448	Orbital and spin character of doped carriers in infinite-layer nickelates. <i>Physical Review B</i> , 2021 , 104,	3.3	6
447	Phonon-Mediated Long-Range Attractive Interaction in One-Dimensional Cuprates. <i>Physical Review Letters</i> , 2021 , 127, 197003	7.4	1
446	Cycling mechanism of Li ₂ MnO ₃ : Li ₂ CO ₂ batteries and commonality on oxygen redox in cathode materials. <i>Joule</i> , 2021 , 5, 975-997	27.8	30
445	Imaging Dual-Moiré Lattices in Twisted Bilayer Graphene Aligned on Hexagonal Boron Nitride Using Microwave Impedance Microscopy. <i>Nano Letters</i> , 2021 , 21, 4292-4298	11.5	3
444	Angle-resolved photoemission studies of quantum materials. <i>Reviews of Modern Physics</i> , 2021 , 93,	40.5	45
443	Evolution of the electronic structure in Ta ₂ NiSe ₅ across the structural transition revealed by resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2021 , 103,	3.3	2
442	Quantum Photonic Interface for Tin-Vacancy Centers in Diamond. <i>Physical Review X</i> , 2021 , 11,	9.1	6
441	Spectroscopic fingerprint of charge order melting driven by quantum fluctuations in a cuprate. <i>Nature Physics</i> , 2021 , 17, 53-57	16.2	13
440	Ultrafast formation of domain walls of a charge density wave in SmTe ₃ . <i>Physical Review B</i> , 2021 , 103,	3.3	6
439	Magic Doping and Robust Superconductivity in Monolayer FeSe on Titanates. <i>Advanced Science</i> , 2021 , 8, 2003454	13.6	1
438	Magnetic excitations in infinite-layer nickelates. <i>Science</i> , 2021 , 373, 213-216	33.3	25
437	Superconducting Fluctuations in Overdoped Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} <i>Physical Review X</i> , 2021 , 11,	9.1	1
436	Anomalously strong near-neighbor attraction in doped 1D cuprate chains. <i>Science</i> , 2021 , 373, 1235-1239	33.3	7

435	Expanding the momentum field of view in angle-resolved photoemission systems with hemispherical analyzers.. <i>Review of Scientific Instruments</i> , 2021 , 92, 123907	1.7	
434	Tuning time and energy resolution in time-resolved photoemission spectroscopy with nonlinear crystals. <i>Journal of Applied Physics</i> , 2020 , 128, 093101	2.5	12
433	Visualization of Multifractal Superconductivity in a Two-Dimensional Transition Metal Dichalcogenide in the Weak-Disorder Regime. <i>Nano Letters</i> , 2020 , 20, 5111-5118	11.5	14
432	Metallic surface states in a correlated d-electron topological Kondo insulator candidate FeSb. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 15409-15413	11.5	3
431	Dissociate lattice oxygen redox reactions from capacity and voltage drops of battery electrodes. <i>Science Advances</i> , 2020 , 6, eaaw3871	14.3	55
430	Generation of Tin-Vacancy Centers in Diamond via Shallow Ion Implantation and Subsequent Diamond Overgrowth. <i>Nano Letters</i> , 2020 , 20, 1614-1619	11.5	18
429	Electronic structure of the parent compound of superconducting infinite-layer nickelates. <i>Nature Materials</i> , 2020 , 19, 381-385	27	105
428	Low work function in the 122-family of iron-based superconductors. <i>Physical Review Materials</i> , 2020 , 4,	3.2	5
427	Time-resolved RIXS experiment with pulse-by-pulse parallel readout data collection using X-ray free electron laser. <i>Scientific Reports</i> , 2020 , 10, 22226	4.9	1
426	Synergistic enhancement of electrocatalytic CO reduction to C oxygenates at nitrogen-doped nanodiamonds/Cu interface. <i>Nature Nanotechnology</i> , 2020 , 15, 131-137	28.7	92
425	Strong correlations and orbital texture in single-layer 1T-TaSe2. <i>Nature Physics</i> , 2020 , 16, 218-224	16.2	56
424	Spectral weight reduction of two-dimensional electron gases at oxide surfaces across the ferroelectric transition. <i>Scientific Reports</i> , 2020 , 10, 16834	4.9	1
423	Narrow-Linewidth Tin-Vacancy Centers in a Diamond Waveguide. <i>ACS Photonics</i> , 2020 , 7, 2356-2361	6.3	11
422	Redox Mechanism in Na-Ion Battery Cathodes Probed by Advanced Soft X-Ray Spectroscopy. <i>Frontiers in Chemistry</i> , 2020 , 8, 816	5	9
421	Quantum-well states in fractured crystals of the heavy-fermion material CeCoIn5. <i>Physical Review B</i> , 2020 , 102,	3.3	2
420	Emergence of quasiparticles in a doped Mott insulator. <i>Communications Physics</i> , 2020 , 3,	5.4	2
419	Band-Resolved Imaging of Photocurrent in a Topological Insulator. <i>Physical Review Letters</i> , 2019 , 122, 167401	7.4	29
418	Mode-Selective Coupling of Coherent Phonons to the Bi2212 Electronic Band Structure. <i>Physical Review Letters</i> , 2019 , 122, 176403	7.4	14

417	Electronic structure of the quadrupolar ordered heavy-fermion compound YbRu ₂ Ge ₂ measured by angle-resolved photoemission. <i>Physical Review B</i> , 2019 , 99,	3.3	1
416	Scanning microwave imaging of optically patterned Ge ₂ Sb ₂ Te ₅ . <i>Applied Physics Letters</i> , 2019 , 114, 093106	10.4	3
415	Coherent order parameter dynamics in SmTe ₃ . <i>Physical Review B</i> , 2019 , 99,	3.3	18
414	Imaging quantum spin Hall edges in monolayer WTe ₂ . <i>Science Advances</i> , 2019 , 5, eaat8799	14.3	64
413	Recording interfacial currents on the subnanometer length and femtosecond time scale by terahertz emission. <i>Science Advances</i> , 2019 , 5, eaau0073	14.3	29
412	Momentum Dependence of the Nematic Order Parameter in Iron-Based Superconductors. <i>Physical Review Letters</i> , 2019 , 123, 066402	7.4	23
411	Visualization of an axion insulating state at the transition between 2 chiral quantum anomalous Hall states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 14511-14515	11.5	24
410	Nanodiamond Integration with Photonic Devices. <i>Laser and Photonics Reviews</i> , 2019 , 13, 1800316	8.3	32
409	Manipulating Topological Domain Boundaries in the Single-Layer Quantum Spin Hall Insulator 1T'-WSe ₂ . <i>Nano Letters</i> , 2019 , 19, 5634-5639	11.5	18
408	Surface Photovoltage-Induced Ultralow Work Function Material for Thermionic Energy Converters. <i>ACS Energy Letters</i> , 2019 , 4, 2436-2443	20.1	8
407	Fermi surface reconstruction in electron-doped cuprates without antiferromagnetic long-range order. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 3449-3453	11.5	22
406	Spectroscopic Evidence for Electron-Boson Coupling in Electron-Doped Sr ₂ IrO ₄ . <i>Physical Review Letters</i> , 2019 , 123, 216402	7.4	6
405	Incoherent strange metal sharply bounded by a critical doping in Bi ₂ 212. <i>Science</i> , 2019 , 366, 1099-1102	33.3	34
404	Band-dependent superconducting gap in SrFe(AsP) studied by angle-resolved photoemission spectroscopy. <i>Scientific Reports</i> , 2019 , 9, 16418	4.9	
403	Nematic Energy Scale and the Missing Electron Pocket in FeSe. <i>Physical Review X</i> , 2019 , 9,	9.1	33
402	Dichotomy of the photo-induced 2-dimensional electron gas on SrTiO ₃ surface terminations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 16687-16691	11.5	8
401	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	27.8	156
400	Detailed band structure of twinned and detwinned BaFe ₂ As ₂ studied with angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2019 , 99,	3.3	17

399	Sterically controlled mechanochemistry under hydrostatic pressure. <i>Nature</i> , 2018 , 554, 505-510	50.4	49
398	Resonant inelastic x-ray scattering studies of magnons and bimagnons in the lightly doped cuprate $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. <i>Physical Review B</i> , 2018 , 97,	3.3	15
397	Dehybridization of f and d states in the heavy-fermion system YbRh_2Si_2 . <i>Physical Review B</i> , 2018 , 97,	3.3	9
396	Strongly Cavity-Enhanced Spontaneous Emission from Silicon-Vacancy Centers in Diamond. <i>Nano Letters</i> , 2018 , 18, 1360-1365	11.5	79
395	Monochromatic Photocathodes from Graphene-Stabilized Diamondoids. <i>Nano Letters</i> , 2018 , 18, 1099-1103	11.5	5
394	Persistent Charge-Density-Wave Order in Single-Layer TaSe. <i>Nano Letters</i> , 2018 , 18, 689-694	11.5	72
393	Anomalous Hall effect in ZrTe_5 . <i>Nature Physics</i> , 2018 , 14, 451-455	16.2	116
392	Experimental measurement of the diamond nucleation landscape reveals classical and nonclassical features. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 8284-8289	11.5	21
391	Optically coupled methods for microwave impedance microscopy. <i>Review of Scientific Instruments</i> , 2018 , 89, 043703	1.7	9
390	Observation of topologically protected states at crystalline phase boundaries in single-layer WSe. <i>Nature Communications</i> , 2018 , 9, 3401	17.4	68
389	Cavity-Enhanced Raman Emission from a Single Color Center in a Solid. <i>Physical Review Letters</i> , 2018 , 121, 083601	7.4	25
388	An Ultrastrong Double-Layer Nanodiamond Interface for Stable Lithium Metal Anodes. <i>Joule</i> , 2018 , 2, 1595-1609	27.8	116
387	Coincident onset of charge-density-wave order at a quantum critical point in underdoped $\text{YBa}_2\text{Cu}_3\text{O}_x$. <i>Physical Review B</i> , 2018 , 97,	3.3	14
386	Anomalous Large Gap Anisotropy in the a-b Plane of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$. <i>Peking University-World Scientific Advanced Physics Series</i> , 2018 , 229-238	0	
385	Electronic structure of monolayer $1\text{T}'\text{-MoTe}_2$ grown by molecular beam epitaxy. <i>APL Materials</i> , 2018 , 6, 026601	5.7	30
384	Rapid change of superconductivity and electron-phonon coupling through critical doping in Bi-2212 . <i>Science</i> , 2018 , 362, 62-65	33.3	52
383	Three-dimensional collective charge excitations in electron-doped copper oxide superconductors. <i>Nature</i> , 2018 , 563, 374-378	50.4	60
382	Spectral Evidence for Emergent Order in $\text{Ba}_{1-x}\text{Na}_x\text{Fe}_2\text{As}_2$. <i>Physical Review Letters</i> , 2018 , 121, 127001	7.4	9

381	Orbital-dependent spin textures in Bi ₂ Se ₃ quantum well states. <i>Physical Review B</i> , 2018 , 98,	3.3	2
380	Persistent low-energy phonon broadening near the charge-order q vector in the bilayer cuprate Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ . <i>Physical Review B</i> , 2018 , 98,	3.3	14
379	Vertical-Substrate MPCVD Epitaxial Nanodiamond Growth. <i>Nano Letters</i> , 2017 , 17, 1489-1495	11.5	46
378	Modular soft x-ray spectrometer for applications in energy sciences and quantum materials. <i>Review of Scientific Instruments</i> , 2017 , 88, 013110	1.7	68
377	Coexistence of Replica Bands and Superconductivity in FeSe Monolayer Films. <i>Physical Review Letters</i> , 2017 , 118, 067002	7.4	68
376	Dispersive charge density wave excitations in Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ . <i>Nature Physics</i> , 2017 , 13, 952-956	16.2	72
375	Back-gated graphene anode for more efficient thermionic energy converters. <i>Nano Energy</i> , 2017 , 32, 67-72	17.1	45
374	Hybrid metal-organic chalcogenide nanowires with electrically conductive inorganic core through diamondoid-directed assembly. <i>Nature Materials</i> , 2017 , 16, 349-355	27	57
373	Role of the orbital degree of freedom in iron-based superconductors. <i>Npj Quantum Materials</i> , 2017 , 2,	5	72
372	Condensed-matter physics: Taking control of spin currents. <i>Nature</i> , 2017 , 549, 464-465	50.4	1
371	HfSe and ZrSe: Two-dimensional semiconductors with native high- κ oxides. <i>Science Advances</i> , 2017 , 3, e1700481	14.3	131
370	Nonequilibrium lattice-driven dynamics of stripes in nickelates using time-resolved x-ray scattering. <i>Physical Review B</i> , 2017 , 95,	3.3	3
369	Stripes developed at the strong limit of nematicity in FeSe film. <i>Nature Physics</i> , 2017 , 13, 957-961	16.2	23
368	Measurement of surface acoustic wave resonances in ferroelectric domains by microwave microscopy. <i>Journal of Applied Physics</i> , 2017 , 122, 074101	2.5	5
367	Large thermopower from dressed quasiparticles in the layered cobaltates and rhodates. <i>Physical Review B</i> , 2017 , 96,	3.3	7
366	Femtosecond electron-phonon lock-in by photoemission and x-ray free-electron laser. <i>Science</i> , 2017 , 357, 71-75	33.3	107
365	Revealing the Coulomb interaction strength in a cuprate superconductor. <i>Physical Review B</i> , 2017 , 96,	3.3	9
364	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	16.4	65

363	Quantum spin Hall state in monolayer 1T'-WTe ₂ . <i>Nature Physics</i> , 2017 , 13, 683-687	16.2	399
362	Three-dimensional nature of the band structure of ZrTe ₅ measured by high-momentum-resolution photoemission spectroscopy. <i>Physical Review B</i> , 2017 , 95,	3.3	53
361	ARPES study of the epitaxially grown topological crystalline insulator SnTe(111). <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2017 , 219, 35-40	1.7	5
360	Visualizing dispersive features in 2D image via minimum gradient method. <i>Review of Scientific Instruments</i> , 2017 , 88, 073903	1.7	9
359	Complete coherent control of silicon vacancies in diamond nanopillars containing single defect centers. <i>Optica</i> , 2017 , 4, 1317	8.6	17
358	Coexistence of a pseudogap and a superconducting gap for the high- T_c superconductor La _{2-x} Sr _x CuO ₄ studied by angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2016 , 93,	3.3	15
357	Ultrafast resonant soft x-ray diffraction dynamics of the charge density wave in TbTe ₃ . <i>Physical Review B</i> , 2016 , 93,	3.3	25
356	Unconventional Correlation between Quantum Hall Transport Quantization and Bulk State Filling in Gated Graphene Devices. <i>Physical Review Letters</i> , 2016 , 117, 186601	7.4	23
355	Spin-polarized surface resonances accompanying topological surface state formation. <i>Nature Communications</i> , 2016 , 7, 13143	17.4	49
354	Origin of the low critical observing temperature of the quantum anomalous Hall effect in V-doped (Bi, Sb) ₂ Te ₃ film. <i>Scientific Reports</i> , 2016 , 6, 32732	4.9	32
353	Persistent order due to transiently enhanced nesting in an electronically excited charge density wave. <i>Nature Communications</i> , 2016 , 7, 10459	17.4	41
352	Directly Characterizing the Relative Strength and Momentum Dependence of Electron-Phonon Coupling Using Resonant Inelastic X-Ray Scattering. <i>Physical Review X</i> , 2016 , 6,	9.1	39
351	Hybrid Group IV Nanophotonic Structures Incorporating Diamond Silicon-Vacancy Color Centers. <i>Nano Letters</i> , 2016 , 16, 212-7	11.5	35
350	Ultralow effective work function surfaces using diamondoid monolayers. <i>Nature Nanotechnology</i> , 2016 , 11, 267-72	28.7	33
349	Electronic Structure, Surface Doping, and Optical Response in Epitaxial WSe ₂ Thin Films. <i>Nano Letters</i> , 2016 , 16, 2485-91	11.5	111
348	Characterization of collective ground states in single-layer NbSe ₂ . <i>Nature Physics</i> , 2016 , 12, 92-97	16.2	376
347	Quantitative analysis of effective height of probes in microwave impedance microscopy. <i>Review of Scientific Instruments</i> , 2016 , 87, 094701	1.7	5
346	Quartz tuning fork based microwave impedance microscopy. <i>Review of Scientific Instruments</i> , 2016 , 87, 063711	1.7	26

345	Invited Article: High resolution angle resolved photoemission with tabletop 11 eV laser. <i>Review of Scientific Instruments</i> , 2016 , 87, 011301	1.7	32
344	Distinct Electronic Structure for the Extreme Magnetoresistance in YSb. <i>Physical Review Letters</i> , 2016 , 117, 267201	7.4	58
343	Ideal charge-density-wave order in the high-field state of superconducting YBCO. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 14645-14650	11.5	67
342	Quantitative Theory for Probe-Sample Interaction With Inhomogeneous Perturbation in Near-Field Scanning Microwave Microscopy. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016 , 64, 1402-1408	4.1	14
341	Charge density wave order in 1D mirror twin boundaries of single-layer MoSe ₂ . <i>Nature Physics</i> , 2016 , 12, 751-756	16.2	156
340	Superconducting Gap Anisotropy in Monolayer FeSe Thin Film. <i>Physical Review Letters</i> , 2016 , 117, 117001	7.4	66
339	Distinctive orbital anisotropy observed in the nematic state of a FeSe thin film. <i>Physical Review B</i> , 2016 , 94,	3.3	54
338	Spin-resolved photoemission study of epitaxially grown MoSe ₂ and WSe ₂ thin films. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 454001	1.8	22
337	Selenium capped monolayer NbSe ₂ for two-dimensional superconductivity studies. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 2396-2399	1.3	11
336	Picosecond Electric-Field-Induced Threshold Switching in Phase-Change Materials. <i>Physical Review Letters</i> , 2016 , 117, 067601	7.4	47
335	Inequivalence of Single-Particle and Population Lifetimes in a Cuprate Superconductor. <i>Physical Review Letters</i> , 2015 , 114, 247001	7.4	40
334	Dependence of electron correlation strength in Fe _{1+y} Te _{1-x} Se _x on Se content. <i>Physical Review B</i> , 2015 , 92,	3.3	8
333	Thickness-Dependent Coherent Phonon Frequency in Ultrathin FeSe/SrTiO ₃ Films. <i>Nano Letters</i> , 2015 , 15, 4150-4	11.5	17
332	Probing the role of interlayer coupling and coulomb interactions on electronic structure in few-layer MoSe ₂ nanostructures. <i>Nano Letters</i> , 2015 , 15, 2594-9	11.5	110
331	Engineering Ultra-Low Work Function of Graphene. <i>Nano Letters</i> , 2015 , 15, 6475-80	11.5	60
330	Three-dimensional charge density wave order in YBa ₂ Cu ₃ O _{6.67} at high magnetic fields. <i>Science</i> , 2015 , 350, 949-52	33.3	213
329	Direct characterization of photoinduced lattice dynamics in BaFe ₂ As ₂ . <i>Nature Communications</i> , 2015 , 6, 7377	17.4	26
328	Mobile metallic domain walls in an all-in-all-out magnetic insulator. <i>Science</i> , 2015 , 350, 538-41	33.3	132

327	Charge-order domain walls with enhanced conductivity in a layered manganite. <i>Nature Communications</i> , 2015 , 6, 7595	17.4	25
326	Direct spectroscopic evidence for phase competition between the pseudogap and superconductivity in Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} . <i>Nature Materials</i> , 2015 , 14, 37-42	27	75
325	Classification of collective modes in a charge density wave by momentum-dependent modulation of the electronic band structure. <i>Physical Review B</i> , 2015 , 91,	3-3	14
324	Magnetic excitations and phonons simultaneously studied by resonant inelastic x-ray scattering in optimally doped Bi _{1.5} Pb _{0.55} Sr _{1.6} La _{0.4} CuO _{6+δ} . <i>Physical Review B</i> , 2015 , 92,	3-3	20
323	Electron-phonon coupling in a system with broken symmetry: Surface of Be(0001). <i>Physical Review B</i> , 2015 , 92,	3-3	9
322	Mott localization in a pure stripe antiferromagnet Rb ₁ Be _{1.5} S ₂ . <i>Physical Review B</i> , 2015 , 92,	3-3	10
321	Experimental observation of incoherent-coherent crossover and orbital-dependent band renormalization in iron chalcogenide superconductors. <i>Physical Review B</i> , 2015 , 92,	3-3	33
320	Bandwidth and Electron Correlation-Tuned Superconductivity in Rb _{{0.8}Fe_{2}(Se_{1-z}S_{z})_{2}} . <i>Physical Review Letters</i> , 2015 , 115, 256403	7-4	14
319	Direct Imaging of Dynamic Glassy Behavior in a Strained Manganite Film. <i>Physical Review Letters</i> , 2015 , 115, 265701	7-4	19
318	Unexpected edge conduction in mercury telluride quantum wells under broken time-reversal symmetry. <i>Nature Communications</i> , 2015 , 6, 7252	17.4	72
317	Observation of universal strong orbital-dependent correlation effects in iron chalcogenides. <i>Nature Communications</i> , 2015 , 6, 7777	17.4	110
316	Interface ferroelectric transition near the gap-opening temperature in a single-unit-cell FeSe film grown on Nb-Doped SrTiO ₃ substrate. <i>Physical Review Letters</i> , 2015 , 114, 037002	7-4	19
315	Superconducting graphene sheets in CaC ₆ enabled by phonon-mediated interband interactions. <i>Nature Communications</i> , 2014 , 5, 3493	17.4	66
314	Dynamic competition between spin-density wave order and superconductivity in underdoped Ba(1-x)K(x)Fe ₂ As ₂ . <i>Nature Communications</i> , 2014 , 5, 3711	17.4	29
313	A stable three-dimensional topological Dirac semimetal Cd ₃ As ₂ . <i>Nature Materials</i> , 2014 , 13, 677-81	27	1010
312	Direct observation of the transition from indirect to direct bandgap in atomically thin epitaxial MoSe ₂ . <i>Nature Nanotechnology</i> , 2014 , 9, 111-5	28.7	943
311	Discovery of a three-dimensional topological Dirac semimetal, Na ₃ Bi. <i>Science</i> , 2014 , 343, 864-7	33.3	1516
310	Interfacial mode coupling as the origin of the enhancement of T _c in FeSe films on SrTiO ₃ . <i>Nature</i> , 2014 , 515, 245-8	50.4	453

309	Asymmetry of collective excitations in electron- and hole-doped cuprate superconductors. <i>Nature Physics</i> , 2014 , 10, 883-889	16.2	88
308	Direct observation of bulk charge modulations in optimally doped Bi _{1.5} Pb _{0.6} Sr _{1.54} CaCu ₂ O _{8+δ} <i>Physical Review B</i> , 2014 , 89,	3.3	54
307	Giant bandgap renormalization and excitonic effects in a monolayer transition metal dichalcogenide semiconductor. <i>Nature Materials</i> , 2014 , 13, 1091-5	27	1150
306	Fast vacancy-mediated oxygen ion incorporation across the ceria-gas electrochemical interface. <i>Nature Communications</i> , 2014 , 5, 4374	17.4	122
305	Energy gaps in high-transition-temperature cuprate superconductors. <i>Nature Physics</i> , 2014 , 10, 483-495	16.2	195
304	Ultrafast electron dynamics in the topological insulator Bi ₂ Se ₃ studied by time-resolved photoemission spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2014 , 195, 249-257	1.7	48
303	Strongly three-dimensional electronic structure and Fermi surfaces of SrFe ₂ (As _{0.65} P _{0.35}) ₂ : Comparison with BaFe ₂ (As _{1-x} P _x) ₂ . <i>Physical Review B</i> , 2014 , 89,	3.3	11
302	Orbital character and electron correlation effects on two- and three-dimensional Fermi surfaces in KFe ₂ As ₂ revealed by angle-resolved photoemission spectroscopy. <i>Frontiers in Physics</i> , 2014 , 2,	3.9	37
301	Charge-orbital-lattice coupling effects in the dd excitation profile of one-dimensional cuprates. <i>Physical Review B</i> , 2014 , 89,	3.3	23
300	Distinguishing bulk and surface electron-phonon coupling in the topological insulator Bi ₂ (Se ₃) using time-resolved photoemission spectroscopy. <i>Physical Review Letters</i> , 2014 , 113, 157401	7.4	80
299	Angle-resolved photoemission spectroscopy study of HgBa ₂ CuO _{4+δ} <i>Physical Review B</i> , 2014 , 89,	3.3	35
298	Electronic structure of BaNi ₂ P ₂ observed by angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2014 , 89,	3.3	11
297	Electron propagation from a photo-excited surface: implications for time-resolved photoemission. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 116, 85-90	2.6	26
296	Microbead-separated thermionic energy converter with enhanced emission current. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 14442-6	3.6	23
295	Discovery of a single topological Dirac fermion in the strong inversion asymmetric compound BiTeCl. <i>Nature Physics</i> , 2013 , 9, 704-708	16.2	59
294	Covalent attachment of diamondoid phosphonic acid dichlorides to tungsten oxide surfaces. <i>Langmuir</i> , 2013 , 29, 9790-7	4	21
293	Absence of superconductivity in the hole-doped Fe pnictide Ba(Fe _{1-x} Mn _x) ₂ As ₂ : Photoemission and x-ray absorption spectroscopy studies. <i>Physical Review B</i> , 2013 , 88,	3.3	22
292	Electronic structure of the metallic antiferromagnet PdCrO ₂ measured by angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2013 , 88,	3.3	25

291	Observation of temperature-induced crossover to an orbital-selective Mott phase in A(x)Fe(2-y)Se ₂ (A=K, Rb) superconductors. <i>Physical Review Letters</i> , 2013 , 110, 067003	7.4	158
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