

# Chaoyu Chen

## List of Publications by Year in descending order

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70  
papers

3,893  
citations

147801

31  
h-index

118850

62  
g-index

72  
all docs

72  
docs citations

72  
times ranked

6045  
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase diagram and electronic indication of high-temperature superconductivity at 65 K in single-layer FeSe films. <i>Nature Materials</i> , 2013, 12, 605-610.	27.5	706
2	Electronic origin of high-temperature superconductivity in single-layer FeSe superconductor. <i>Nature Communications</i> , 2012, 3, 931.	12.8	495
3	Gapless Surface Dirac Cone in Antiferromagnetic Topological Insulator $\text{MnBi}$ . <i>Physical Review X</i> , 2019, 9, .	8.9	215
4	Direct Observation of Interlayer Hybridization and Dirac Relativistic Carriers in Graphene/MoS <sub>2</sub> van der Waals Heterostructures. <i>Nano Letters</i> , 2015, 15, 1135-1140.	9.1	163
5	Black Arsenic: A Layered Semiconductor with Extreme In-Plane Anisotropy. <i>Advanced Materials</i> , 2018, 30, e1800754.	21.0	161
6	Evidence of Topological Surface State in Three-Dimensional Dirac Semimetal Cd <sub>3</sub> As <sub>2</sub> . <i>Scientific Reports</i> , 2014, 4, 6106.	3.3	159
7	Robustness of topological order and formation of quantum well states in topological insulators exposed to ambient environment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 3694-3698.	7.1	158
8	Observation of a two-dimensional liquid of Fröhlich polarons at the bare SrTiO <sub>3</sub> surface. <i>Nature Communications</i> , 2015, 6, 8585.	12.8	127
9	Strong Anisotropy of Dirac Cones in SrMnBi <sub>2</sub> and CaMnBi <sub>2</sub> Revealed by Angle-Resolved Photoemission Spectroscopy. <i>Scientific Reports</i> , 2014, 4, 5385.	3.3	105
10	Tunable Dirac Fermion Dynamics in Topological Insulators. <i>Scientific Reports</i> , 2013, 3, 2411.	3.3	94
11	Orbital-selective spin texture and its manipulation in a topological insulator. <i>Nature Communications</i> , 2014, 5, 3382.	12.8	78
12	Electronic evidence of an insulator–superconductor crossover in single-layer FeSe/SrTiO <sub>3</sub> films. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18501-18506.	7.1	67
13	Angle resolved photoemission spectroscopy reveals spin charge separation in metallic MoSe <sub>2</sub> grain boundary. <i>Nature Communications</i> , 2017, 8, 14231.	12.8	66
14	Direct observation of the band structure in bulk hexagonal boron nitride. <i>Physical Review B</i> , 2017, 95, .	3.2	65
15	Stacking-Dependent Electronic Structure of Trilayer Graphene Resolved by Nanospot Angle-Resolved Photoemission Spectroscopy. <i>Nano Letters</i> , 2017, 17, 1564-1568.	9.1	63
16	Dichotomy of the electronic structure and superconductivity between single-layer and double-layer FeSe/SrTiO <sub>3</sub> films. <i>Nature Communications</i> , 2014, 5, 5047.	12.8	57
17	Emergence of Interfacial Polarons from Electron–Phonon Coupling in Graphene/h-BN van der Waals Heterostructures. <i>Nano Letters</i> , 2018, 18, 1082-1087.	9.1	55
18	Distinct Topological Surface States on the Two Terminations of $\text{MnBi}$ . <i>Physical Review X</i> , 2020, 10, .	8.9	52

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19	van der Waals epitaxy of monolayer hexagonal boron nitride on copper foil: growth, crystallography and electronic band structure. 2D Materials, 2015, 2, 025003.	4.4	51
20	A novel artificial condensed matter lattice and a new platform for one-dimensional topological phases. Science Advances, 2017, 3, e1501692.	10.3	48
21	Electronic band structure of ReS <sub>2</sub> by high-resolution angle-resolved photoemission spectroscopy. Physical Review B, 2017, 96, .	3.2	48
22	In-plane antiferromagnetic moments and magnetic polaron in the axion topological insulator candidate $\text{MnBi}_2\text{Te}_4$ . Physical Review B, 2020, 101, .	3.2	47
23	Large-area epitaxial growth of curvature-stabilized ABC trilayer graphene. Nature Communications, 2020, 11, 546.	12.8	47
24	Quantum Transport and Nano Angle-resolved Photoemission Spectroscopy on the Topological Surface States of Single Sb <sub>2</sub> Te <sub>3</sub> Nanowires. Scientific Reports, 2016, 6, 29493.	3.3	43
25	Topology and doping effects in three-dimensional nanoporous graphene. Carbon, 2018, 131, 258-265.	10.3	41
26	Half-Magnetic Topological Insulator with Magnetization-Induced Dirac Gap at a Selected Surface. Physical Review X, 2021, 11, .	8.9	39
27	The band structure of the quasi-one-dimensional layered semiconductor TiS <sub>3</sub> (001). Applied Physics Letters, 2018, 112, .	3.3	38
28	Boron-Doped Graphene Nanoribbons: Electronic Structure and Raman Fingerprint. ACS Nano, 2018, 12, 7571-7582.	14.6	38
29	Temperature-driven topological transition in 1T'-MoTe <sub>2</sub> . Npj Quantum Materials, 2018, 3, .	5.2	36
30	Analytical solution for the surface states of the antiferromagnetic topological insulator $\text{MnBi}_2\text{Te}_4$ . Physical Review B, 2020, 102, .	3.2	34
31	Two-Dimensional Hallmark of Highly Interconnected Three-Dimensional Nanoporous Graphene. ACS Omega, 2017, 2, 3691-3697.	3.5	32
32	Electronic bandstructure and van der Waals coupling of ReSe <sub>2</sub> revealed by high-resolution angle-resolved photoemission spectroscopy. Scientific Reports, 2017, 7, 5145.	3.3	32
33	Hybridization-induced gapped and gapless states on the surface of magnetic topological insulators. Physical Review B, 2020, 102, .	3.2	29
34	Realization of a tunable surface Dirac gap in Sb-doped $\text{MnBi}_2\text{Te}_4$ . Physical Review B, 2021, 103, .	3.2	27
35	Unusual Electronic Structure and Observation of Dispersion Kink in CeFeAsO Parent Compound of FeAs-based Superconductors. Physical Review Letters, 2010, 105, 027001.	7.8	26
36	Experimental observation of two massless Dirac-fermion gases in graphene-topological insulator heterostructure. 2D Materials, 2016, 3, 021009.	4.4	21

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37	Electronic structure, Dirac points and Fermi arc surface states in three-dimensional Dirac semimetal Na <sub>3</sub> Bi from angle-resolved photoemission spectroscopy. Chinese Physics B, 2016, 25, 077101.	1.4	20
38	Substrate dependent electronic structure variations of van der Waals heterostructures of MoSe <sub>2</sub> or MoSe <sub>2</sub> (1 $\hat{a}$ <sup>~</sup> <i>x</i> ) / Te <sub>2</sub> <i>x</i> grown by van der Waals epitaxy. 2D Materials, 2017, 4, 025094.	4.4	19
39	Unraveling the Structural and Electronic Properties at the WSe <sub>2</sub> –“Graphene Interface for a Rational Design of van der Waals Heterostructures. ACS Applied Nano Materials, 2018, 1, 1131-1140.	5.0	19
40	Anomalous High-Energy Waterfall-Like Electronic Structure in 5 d Transition Metal Oxide Sr2IrO4 with a Strong Spin-Orbit Coupling. Scientific Reports, 2015, 5, 13036.	3.3	17
41	Band renormalization and spin polarization of MoS <sub>2</sub> in graphene/MoS <sub>2</sub> heterostructures. Physica Status Solidi - Rapid Research Letters, 2015, 9, 701-706.	2.4	17
42	Dimensional Crossover and Topological Nature of the Thin Films of a Three-Dimensional Topological Insulator by Band Gap Engineering. Nano Letters, 2019, 19, 4627-4633.	9.1	16
43	Electronic structure of transferred graphene/h-BN van der Waals heterostructures with nonzero stacking angles by nano-ARPES. Journal of Physics Condensed Matter, 2016, 28, 444002.	1.8	14
44	Inorganic Ions Assisted the Anisotropic Growth of CsPbCl <sub>3</sub> Nanowires with Surface Passivation Effect. ACS Applied Materials & Interfaces, 2018, 10, 29574-29582.	8.0	14
45	Exploring the Electronic Structure and Chemical Homogeneity of Individual Bi <sub>2</sub> Te <sub>3</sub> Nanowires by Nano-Angle-Resolved Photoemission Spectroscopy. Nano Letters, 2016, 16, 4001-4007.	9.1	13
46	<i>In situ</i> characterization of the deposition of anatase TiO <sub>2</sub> on rutile TiO <sub>2</sub> (110). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2018, 36, .	2.1	13
47	Large local lattice expansion in graphene adlayers grown on copper. Nature Materials, 2018, 17, 450-455.	27.5	13
48	Resolving Deep Quantum-Well States in Atomically Thin 2H-MoTe <sub>2</sub> Flakes by Nanospot Angle-Resolved Photoemission Spectroscopy. Nano Letters, 2018, 18, 4664-4668.	9.1	13
49	Nanospot angle-resolved photoemission study of Bernal-stacked bilayer graphene on hexagonal boron nitride: Band structure and local variation of lattice alignment. Physical Review B, 2019, 99, .	3.2	13
50	Observation of Spin-Momentum-Layer Locking in a Centrosymmetric Crystal. Physical Review Letters, 2021, 127, 126402.	7.8	12
51	Graphene Ribbon Growth on Structured Silicon Carbide. Annalen Der Physik, 2017, 529, 1700052.	2.4	11
52	Optimal focusing system of the Fresnel zone plates at the Synchrotron SOLEIL NanoARPES beamline. Journal of Physics: Conference Series, 2017, 849, 012039.	0.4	11
53	Synthesis of high quality graphene on capped (1 $\hat{a}$ %1 $\hat{a}$ %1) Cu thin films obtained by high temperature secondary grain growth on <i>c</i> -plane sapphire substrates. 2D Materials, 2018, 5, 035008.	4.4	10
54	Nanomosaic of Topological Dirac States on the Surface of Pb <sub>5</sub> Bi <sub>24</sub> Se <sub>41</sub> Observed by Nano-ARPES. Nano Letters, 2019, 19, 3737-3742.	9.1	10

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55	Electronic structure of graphene/hexagonal boron nitride heterostructure revealed by Nano-ARPES. Journal of Physics: Conference Series, 2017, 864, 012005.	0.4	8
56	Multiple Dirac nodal lines in an in-plane anisotropic semimetal $\text{TaNiTe}_5$ . Physical Review B, 2021, 104, .	3.2	8
57	Fermi Velocity Reduction of Dirac Fermions around the Brillouin Zone Center in $\text{In}_2\text{Se}_3$ Bilayer Graphene Heterostructures. Advanced Materials, 2021, 33, 2007503.	21.0	7
58	Ultrafast evolution of bulk, surface and surface resonance states in photoexcited $\text{Bi}_2\text{Te}_3$ . Scientific Reports, 2021, 11, 4924.	3.3	7
59	Chemical and electronic structure imaging of graphene on Cu: a NanoARPES study. Journal of Physics Condensed Matter, 2017, 29, 183001.	1.8	6
60	Evidencing the need for high spatial resolution in angle-resolved photoemission experiments. Physical Review B, 2016, 93, .	3.2	4
61	Electronic structure of polycrystalline CVD-graphene revealed by Nano-ARPES. Journal of Physics: Conference Series, 2017, 849, 012019.	0.4	4
62	Surface State Dynamics of Topological Insulators Investigated by Femtosecond Time- and Angle-Resolved Photoemission Spectroscopy. Applied Sciences (Switzerland), 2018, 8, 694.	2.5	4
63	Spatially-resolved electronic structure of stripe domains in $\text{IrTe}_2$ through electronic structure microscopy. Communications Physics, 2021, 4, .	5.3	4
64	Structural and electronic inhomogeneity of graphene revealed by Nano-ARPES. Journal of Physics: Conference Series, 2017, 864, 012029.	0.4	3
65	Nano-Angle Resolved Photoemission Spectroscopy on Topological insulator $\text{Sb}_2\text{Te}_3$ nanowires responsible of quantum transport. Journal of Physics: Conference Series, 2017, 864, 012041.	0.4	3
66	Femtosecond Dynamics of Spin-Polarized Electrons in Topological Insulators. IEEE Magnetics Letters, 2018, 9, 1-4.	1.1	3
67	Nonlinear electronic and ultrafast optical signatures in chemical vapor-deposited ultrathin $\text{PtS}_2$ ribbons. Nano Research, 2022, 15, 4366-4373.	10.4	3
68	Evidence of Weyl fermions in $\text{Ru}_2\text{P}$ . Physical Review B, 2021, 103, .	1.2	2
69	Dirac Fermions: Fermi Velocity Reduction of Dirac Fermions around the Brillouin Zone Center in $\text{In}_2\text{Se}_3$ Bilayer Graphene Heterostructures (Adv. Mater. 17/2021). Advanced Materials, 2021, 33, 2170129.	21.0	1
70	High-resolution Electronic and Chemical imaging of wonder nanomaterials beyond graphene. Journal of Physics: Conference Series, 2017, 864, 012036.	0.4	0