Chi Cheng Lee

List of Publications by Year
in descending order

61 papers	9,800 citations	172457 29 h-index	133252 59 g-index
62 all docs	62 docs citations	62 times ranked	6973 citing authors

#	Article	IF	Citations
1	Photocurrent-driven transient symmetry breaking in the Weyl semimetal TaAs. Nature Materials, 2022, 21, 62-66.	27.5	20
2	Bandgap Shrinkage and Charge Transfer in 2D Layered SnS₂ Doped with V for Photocatalytic Efficiency Improvement. Small, 2022, 18, e2105076.	10.0	8
3	Hidden competing phase revealed by first-principles calculations of phonon instability in the nearly optimally doped cuprate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mrow><m Physical Review B, 2021, 104, .	3.2	4
4	Modulating chemical composition and work function of suspended reduced graphene oxide membranes through electrochemical reduction. Carbon, 2021, 185, 410-418.	10.3	13
5	Emergence of nearly flat bands through a kagome lattice embedded in an epitaxial two-dimensional Ge layer with a bitriangular structure. Physical Review B, 2020, 102, .	3.2	4
6	Formation of BN-covered silicene on ZrB2/Si(111) by adsorption of NO and thermal processes. Journal of Chemical Physics, 2020, 153, 064702.	3.0	5
7	Unfolding optical transition weights of impurity materials for first-principles LCAO electronic structure calculations. Physical Review B, 2020, 102, .	3.2	2
8	Partitioning interatomic force constants for first-principles phonon calculations: applications to NaCl, PbTiO₃, monolayer CrI₃, and twisted bilayer graphene. Journal of Physics Condensed Matter, 2020, 33, 055902.	1.8	4
9	Hidden mechanism for embedding the flat bands of Lieb, kagome, and checkerboard lattices in other structures. Physical Review B, 2019, 100, .	3.2	13
10	Scanning tunneling microscopy on cleaved Mn3Sn(0001) surface. Scientific Reports, 2019, 9, 9677.	3.3	7
11	Non-saturating quantum magnetization in Weyl semimetal TaAs. Nature Communications, 2019, 10, 1028.	12.8	22
12	Peculiar bonding associated with atomic doping and hidden honeycombs in borophene. Physical Review B, 2018, 97, .	3.2	23
13	Topological superconductor in quasi-one-dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Tl</mml:mi><mml:mrow><mml:mn>2</mml Physical Review B, 2018, 97, .	3.2	12
14	Atomic Structure and Local Electronic States of Single Pt Atoms Dispersed on Graphene. Journal of Physical Chemistry C, 2018, 122, 27292-27300.	3.1	19
15	Tight-binding calculations of optical matrix elements for conductivity using nonorthogonal atomic orbitals: Anomalous Hall conductivity in bcc Fe. Physical Review B, 2018, 98, .	3.2	26
16	Realization of intrinsically broken Dirac cones in graphene via the momentum-resolved electronic band structure. Journal of Physics Condensed Matter, 2018, 30, 295502.	1.8	0
17	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>G</mml:mi></mml:mrow></mml:math> -type magnetic order in ferropnictide <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">u</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:mi mathvariant="normal">F	3.2	2
18	Absolute Binding Energies of Core Levels in Solids from First Principles. Physical Review Letters, 2017, 118, 026401.	7.8	43

#	Article	IF	Citations
19	Single-particle excitation of core states in epitaxial silicene. Physical Review B, 2017, 95, .	3.2	13
20	Atomic-scale visualization of surface-assisted orbital order. Science Advances, 2017, 3, eaao0362.	10.3	14
21	Magnetic-tunnelling-induced Weyl node annihilation in TaP. Nature Physics, 2017, 13, 979-986.	16.7	80
22	Discovery of a new type of topological Weyl fermion semimetal state in MoxW1â^’xTe2. Nature Communications, 2016, 7, 13643.	12.8	163
23	Fermi arc electronic structure and Chern numbers in the type-II Weyl semimetal candidate<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Mo</mml:mi><mml:mi>x</mml:mi></mm mathvariant="normal">W</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow> Physical Review B, 2016, 94, .	3.2	115
24	Two-dimensional Topological Crystalline Insulator Phase in Sb/Bi Planar Honeycomb with Tunable Dirac Gap. Scientific Reports, 2016, 6, 18993.	3.3	21
25	Signatures of Fermi Arcs in the Quasiparticle Interferences of the Weyl Semimetals TaAs and NbP. Physical Review Letters, 2016, 116, 066601.	7.8	54
26	Spin Polarization and Texture of the Fermi Arcs in the Weyl Fermion Semimetal TaAs. Physical Review Letters, 2016, 116, 096801.	7.8	102
27	A strongly robust type II Weyl fermion semimetal state in Ta ₃ S ₂. Science Advances, 2016, 2, e1600295.	10.3	114
28	Signatures of the Adlerâ€"Bellâ€"Jackiw chiral anomaly in a Weyl fermion semimetal. Nature Communications, 2016, 7, 10735.	12.8	603
29	Atomic-Scale Visualization of Quantum Interference on a Weyl Semimetal Surface by Scanning Tunneling Microscopy. ACS Nano, 2016, 10, 1378-1385.	14.6	112
30	Prediction of an arc-tunable Weyl Fermion metallic state in MoxW1â^’xTe2. Nature Communications, 2016, 7, 10639.	12.8	249
31	Topological nodal-line fermions in spin-orbit metal PbTaSe2. Nature Communications, 2016, 7, 10556.	12.8	688
32	Criteria for Directly Detecting Topological Fermi Arcs in Weyl Semimetals. Physical Review Letters, 2016, 116, 066802.	7.8	134
33	New type of Weyl semimetal with quadratic double Weyl fermions. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1180-1185.	7.1	291
34	Fermi surface interconnectivity and topology in Weyl fermion semimetals TaAs, TaP, NbAs, and NbP. Physical Review B, 2015, 92, .	3.2	127
35	Experimental discovery of a topological Weyl semimetal state in TaP. Science Advances, 2015, 1, e1501092.	10.3	337
36	A Weyl Fermion semimetal with surface Fermi arcs in the transition metal monopnictide TaAs class. Nature Communications, 2015, 6, 7373.	12.8	1,336

#	ARTICLE	IF	CITATIONS
37	Discovery of a Weyl fermion semimetal and topological Fermi arcs. Science, 2015, 349, 613-617.	12.6	2,753
38	Discovery of a Weyl fermion state with Fermi arcs in niobium arsenide. Nature Physics, 2015, 11, 748-754.	16.7	817
39	First-Principles Studies in Fe-Based Superconductors. Springer Series in Materials Science, 2015, , 223-253.	0.6	0
40	Avoiding critical-point phonon instabilities in two-dimensional materials: The origin of the stripe formation in epitaxial silicene. Physical Review B, 2014, 90, .	3.2	17
41	Diverse forms of bonding in two-dimensional Si allotropes: Nematic orbitals in theMoS2structure. Physical Review B, 2014, 90, .	3.2	24
42	Microscopic origin of the Ï€ states in epitaxial silicene. Applied Physics Letters, 2014, 104, 021605.	3.3	23
43	Band structure of silicene on zirconium diboride (0001) thin-film surface: Convergence of experiment and calculations in the one-Si-atom Brillouin zone. Physical Review B, 2014, 90, .	3.2	35
44	Competing magnetism in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Ï€</mml:mi></mml:math>-electrons in graphene with a single carbon vacancy. Physical Review B, 2014, 90, .	3.2	19
45	First-principles study on competing phases of silicene: Effect of substrate and strain. Physical Review B, 2013, 88, .	3.2	45
46	Unfolding method for first-principles LCAO electronic structure calculations. Journal of Physics Condensed Matter, 2013, 25, 345501.	1.8	51
47	Spin-split conduction band in EuB6and tuning of half-metallicity with external stimuli. Physical Review B, 2013, 87, .	3.2	9
48	First-Principles Method of Propagation of Tightly Bound Excitons: Verifying the Exciton Band Structure of LiF with Inelastic x-Ray Scattering. Physical Review Letters, 2013, 111, 157401.	7.8	8
49	Magnetic softness in iron-based superconductors. Superconductor Science and Technology, 2012, 25, 084007.	3.5	2
50	X-ray diffuse scattering study of local distortions in Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>+</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:ma induced by excess Fe. Physical Review B, 2011, 83, .	3.2	24
51	dd excitations in three-dimensional q-space: A nonresonant inelastic X-ray scattering study on NiO. Europhysics Letters, 2011, 96, 37007.	2.0	19
52	One-Fe versus Two-Fe Brillouin Zone of Fe-Based Superconductors: Creation of the Electron Pockets by Translational Symmetry Breaking. Physical Review Letters, 2011, 107, 257001.	7.8	53
53	Unfolding First-Principles Band Structures. Physical Review Letters, 2010, 104, 216401.	7.8	255
54	Unified Picture for Magnetic Correlations in Iron-Based Superconductors. Physical Review Letters, 2010, 105, 107004.	7.8	164

#	Article	IF	Citations
55	Coupling of spin and orbital excitations in the iron-based superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>FeSe</mml:mtext></mml:mrow><mml:mrow><mml:mn>0.5</mm Physical Review B, 2010, 81, .	3.2	61
56	Dynamical linear response of TDDFT with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>LDA</mml:mtext><mml:mo>+</mml:mo><mml:mi>U</mml:mi></mml:mrow></mml:math>f Strongly hybridized Frenkel excitons in NiO. Physical Review B, 2010, 82, .	3.2	21
57	Effect of covalent bonding on magnetism and the missing neutron intensity in copper oxide compounds. Nature Physics, 2009, 5, 867-872.	16.7	112
58	Ferro-Orbital Order and Strong Magnetic Anisotropy in the Parent Compounds of Iron-Pnictide Superconductors. Physical Review Letters, 2009, 103, 267001.	7.8	358
59	Nonresonant Inelastic X-Ray Scattering and Energy-Resolved Wannier Function Investigation ofdâˆ’dExcitations in NiO and CoO. Physical Review Letters, 2007, 99, 026401.	7.8	84
60	Magnetism and mechanical stability ofÎ±-iron. Physical Review B, 2002, 66, .	3.2	35
61	Compression mechanisms in the anisotropically bonded elements Se and Te. Physical Review B, 2000, 61, 3851-3856.	3.2	29