

# Donglai Feng

## List of Publications by Year in descending order

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98  
papers

12,414  
citations

66343

42  
h-index

38395

95  
g-index

99  
all docs

99  
docs citations

99  
times ranked

14895  
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-space observation of incommensurate spin density wave and coexisting charge density wave on Cr (001) surface. Nature Communications, 2022, 13, 445.	12.8	16
2	Observation of Distinct Spatial Distributions of the Zero and Nonzero Energy Vortex Modes in $\text{LiFePO}_4$ . Physical Review Letters, 2021, 126, 127001.	7.8	5
3	Observations of abundant structural and electronic phases in potassium-doped single-layer p-terphenyl film. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	5.1	1
4	Distinct Kondo Screening Behaviors in Heavy Fermion Filled Skutterudites with $4f$ and $5f$ Configurations. Physical Review Letters, 2021, 126, 136402.	7.8	5
5	Evolution of spin excitations from bulk to monolayer FeSe. Nature Communications, 2021, 12, 3122.	12.8	29
6	Electronic structure and signature of Tomonaga-Luttinger liquid state in epitaxial $\text{CoSb}_2$ nanoribbons. Npj Quantum Materials, 2021, 6, .	5.2	3
7	High temperature superconductivity at FeSe/LaFeO <sub>3</sub> interface. Nature Communications, 2021, 12, 5926.	12.8	21
8	Momentum-resolved electronic structure and band offsets in an epitaxial NbN/GaN superconductor/semiconductor heterojunction. Science Advances, 2021, 7, eabi5833.	10.3	5
9	Dirac fermions in antiferromagnetic FeSn kagome lattices with combined space inversion and time-reversal symmetry. Physical Review B, 2020, 102, .	3.2	52
10	The relevance of ARPES to high-T <sub>c</sub> superconductivity in cuprates. Npj Quantum Materials, 2020, 5, .	5.2	10
11	Observation of Discrete Conventional Caroli-de Gennes-Matricon States in the Vortex Core of Single-Layer FeSe/SrTiO <sub>3</sub> . Physical Review Letters, 2020, 124, 097001.	7.8	23
12	Colloquium: Heavy-electron quantum criticality and single-particle spectroscopy. Reviews of Modern Physics, 2020, 92, .	45.6	70
13	Anomalous helimagnetic domain shrinkage due to the weakening of the Dzyaloshinskii-Moriya interaction in CrAs. Physical Review B, 2020, 102, .	3.2	3
14	Intertwined Spin and Orbital Density Waves in MnP Uncovered by Resonant Soft X-Ray Scattering. Physical Review X, 2019, 9, .	8.9	6
15	Quantized Conductance of Majorana Zero Mode in the Vortex of the Topological Superconductor (Li) Tj ETQq1 1 0.784314 rgBT / Overl	3.3	87
16	Type-I superconductivity in $\text{Al}$ . Physical Review B, 2019, 99, .	5.2	19
17	Evidence of nematic order and nodal superconducting gap along [110] direction in RbFe <sub>2</sub> As <sub>2</sub> . Nature Communications, 2019, 10, 1039.	12.8	31
18	Electronic structure and $4f$ -electron character in $\text{Ce}$ studied by angle-resolved photoemission spectroscopy. Physical Review B, 2019, 99, .	3.2	14

#	ARTICLE	IF	CITATIONS
19	Evidence of cooperative effect on the enhanced superconducting transition temperature at the FeSe/SrTiO <sub>3</sub> interface. Nature Communications, 2019, 10, 758.	12.8	86
20	Magnetic and electronic properties of single-crystalline BaCoSO. Physical Review B, 2019, 100, .	3.2	0
21	Observation of gapped phases in potassium-doped single-layer $p$ -terphenyl on Au (111). Physical Review B, 2019, 99, .	3.2	7
22	Charge Transfer Effects in Naturally Occurring van der Waals Heterostructures $PbSe$ $T_j$ ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 T		

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37	Direct observation of how the heavy-fermion state develops in $\text{CeCoIn}_5$ . Physical Review B, 2017, 96, .	3.2	79
38	Presence of exotic electronic surface states in LaBi and LaSb. Physical Review B, 2016, 94, .	3.2	79
39	Highly Anisotropic and Twofold Symmetric Superconducting Gap in Nematically Ordered $\text{FeSe}$ . Physical Review Letters, 2016, 117, 157003.	3.2	16
40	Electronic structure of $\text{YFe}_2\text{O}_7$ by angle-resolved photoemission spectroscopy. Physical Review B, 2016, 93, .	3.2	16
41	Electronic structure of the titanium-based oxypnictide superconductor $\text{BaFe}_2\text{O}_7$ and direct observation of its charge.	3.2	16
42	A unifying phase diagram with correlation-driven superconductor-to-insulator transition for the $\text{FeTe}_{1-x}\text{Se}_x$ of iron chalcogenides. Physical Review B, 2016, 93, .	3.2	24
43	$\text{TiO}_2$ layers at the interface of $\text{FeSe}$ superconductors.	3.2	40
44	Observation of Dirac cone band dispersions in $\text{FeSe}$ thin films by photoemission spectroscopy. Physical Review B, 2016, 93, .	3.2	41
45	Surface electronic structure and evidence of plain $s$ -wave superconductivity in $\text{FeSe}$ .		

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55	Electronic structure reconstruction of $\text{Ca}_{1-x}\text{Pr}_x\text{Fe}_2\text{As}_2$ in the collapsed tetragonal phase. <i>Physical Review B</i> , 2014, 90, .	3.2	5
56	Iron-based high transition temperature superconductors. <i>National Science Review</i> , 2014, 1, 371-395.	9.5	167
57	Ultrafast Modulation of the Chemical Potential in $\text{BaFe}_2\text{As}_2$ Coherent Phonons. <i>Physical Review Letters</i> , 2014, 112, .	7.8	56
58	Direct Observation of the Bandwidth Control Mott Transition in the $\text{NiS}_2$ System. <i>Physical Review Letters</i> , 2014, 112, .	7.8	29
59	Black phosphorus field-effect transistors. <i>Nature Nanotechnology</i> , 2014, 9, 372-377.	31.5	7,071
60	Angle-resolved photoemission study of the electronic structure of the quantum spin liquid $\text{EtMe}_3\text{Sb}[\text{Pd}(\text{dmit})_2]_2$ . <i>Physical Review B</i> , 2014, 89, .	3.2	3
61	Extraordinary Doping Effects on Quasiparticle Scattering and Bandwidth in Iron-Based Superconductors. <i>Physical Review X</i> , 2014, 4, .	8.9	66
62	Measurement of an Enhanced Superconducting Phase and a Pronounced Anisotropy of the Energy Gap of a Strained $\text{FeSe}$ Single Layer in $\text{NbCoFeSe}$ . <i>Physical Review Letters</i> , 2014, 112, 107001.	7.8	117
63	Electronic structure of the $\text{BaTi}_2\text{As}_2$ parent compound of the titanium-based oxypnictide superconductor. <i>Physical Review B</i> , 2014, 89, .	3.2	14
64	Anisotropic but Nodeless Superconducting Gap in the Presence of Spin-Density Wave in Iron-Pnictide Superconductor $\text{NaFe}_1-x\text{Co}_x\text{P}_2\text{As}_2$ . <i>Physical Review X</i> , 2013, 3, .	8.9	42
65	Distinct in-plane resistivity anisotropy in a detwinned $\text{FeTe}$ single crystal: Evidence for a Hund's metal. <i>Physical Review B</i> , 2013, 88, .	3.2	37
66	Superconductivity induced by U doping in the $\text{SmFeAsO}$ system. <i>Physical Review B</i> , 2013, 87, .	3.2	2
67	Interface-induced superconductivity and strain-dependent spin density waves in $\text{FeSe}/\text{SrTiO}_3$ thin films. <i>Nature Materials</i> , 2013, 12, 634-640.	27.5	581
68	Electronic structure of $\text{Ca}_{10}(\text{Pt}_4\text{As}_8)(\text{Fe}_2\text{As}_2)_5$ with metallic $\text{Pt}_4\text{As}_8$ layers: An angle-resolved photoemission spectroscopy study. <i>Physical Review B</i> , 2013, 88, .	3.2	20
69	Doping dependence of the electronic structure in phosphorus-doped ferropnictide superconductor $\text{BaFe}_2\text{As}_2$ .		

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73	Electronic Identification of the Parental Phases and Mesoscopic Phase Separation of $KxFeAs_2$ . Physical Review X, 2011, 1, .	8.9	128
74	Evolution of electronic structure in $\text{Eu}^{1+}\text{LaFe}_2\text{As}_2$ . Journal of Physics and Chemistry of Solids, 2011, 72, 474-478.	4.0	11
75	The orbital characters and k dispersions of bands in iron-pnictide $\text{NaFeAs}$ . Journal of Physics and Chemistry of Solids, 2011, 72, 479-482.	4.0	11
76	Electronic structure reconstruction of $\text{CaFe}_2\text{As}_2$ in the spin density wave state. Journal of Physics and Chemistry of Solids, 2011, 72, 469-473.	4.0	3
77	Orbital characters of bands in the iron-based superconductor $\text{BaNi}_2\text{As}_2$ . Physical Review Letters, 2010, 105, 117002.	3.2	31
78	Orbital characters of bands in the iron-based superconductor $\text{BaFe}_2\text{As}_2$ . Physical Review Letters, 2010, 105, 117003.	3.2	86
79	Orbital characters of bands in the iron-based superconductor $\text{BaFe}_2\text{As}_2$ . Physical Review Letters, 2010, 105, 117003.	3.2	77
80	Inelastic x-ray scattering study of the state-resolved differential cross section of Compton excitations in helium atoms. Physical Review A, 2010, 82, .	2.5	69
81	Electronic structure of $\text{FeAs}$ . Physical Review B, 2010, 81, .	3.2	104
82	High-resolution angle-resolved photoemission spectroscopy study of the electronic structure of $\text{EuFe}_2\text{As}_2$ . Physical Review B, 2010, 81, .	3.2	30
83	Surface and bulk electronic structures of $\text{LaFeAsO}$ studied by angle-resolved photoemission spectroscopy. Physical Review B, 2010, 82, .	3.2	48
84	Electronic-Structure-Driven Magnetic and Structure Transitions in Superconducting $\text{NaFeAs}$ Single Crystals Measured by Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2010, 105, 117002.	7.8	74
85	Strong correlations and spin-density-wave phase induced by a massive spectral weight redistribution in $\text{La}_{1-x}\text{Fe}_x\text{O}_6\text{Te}$ . Physical Review B, 2010, 82, .	3.2	50
86	Unusual Doping Dependence of the Electronic Structure and Coexistence of Spin-Density-Wave and Superconductor Phases in Single Crystalline $\text{Sr}_x\text{Fe}_{1-x}\text{As}_2$ . Physical Review Letters, 2009, 102, 127003.	7.8	62
87	Novel Electronic Structure Induced by a Highly Strained Oxide Interface with Incommensurate Crystal Fields. Physical Review Letters, 2009, 102, 026806.	7.8	11
88	Wei, Zhang, and Feng Reply:. Physical Review Letters, 2009, 103, .	7.8	5
89	Electronic Structure and Unusual Exchange Splitting in the Spin-Density-Wave State of the $\text{BaFe}_2\text{As}_2$ Compound of Iron-Based Superconductors. Physical Review Letters, 2009, 102, 107002.	7.8	148
90	Knot undulator to generate linearly polarized photons with low on-axis power density. Review of Scientific Instruments, 2009, 80, 085108.	1.3	22

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91	Extraction of a clean charge-density-wave gap for 2H-. Journal of Physics and Chemistry of Solids, 2008, 69, 2956-2959.	4.0	3
92	Joint density of states and charge density wave in 2H-structured transition metal dichalcogenides. Journal of Physics and Chemistry of Solids, 2008, 69, 2975-2977.	4.0	2
93	Doping-insensitive density-of-states suppression in polycrystalline iron-based superconductor. Solid State Communications, 2008, 148, 504-507.	1.9	17
94	Superconducting Coherence Peak in the Electronic Excitations of a Single-Layer $\text{Bi}_2\text{Sr}_{1.6}\text{La}_{0.4}\text{CuO}_6 + \hat{\Gamma}$ Cuprate Superconductor. Physical Review Letters, 2008, 101, 097005.	7.8	45
95	Primary Role of the Barely Occupied States in the Charge Density Wave Formation of $\text{NbSe}_2$ . Physical Review Letters, 2008, 101, 226406.	7.8	57
96	Novel Mechanism of a Charge Density Wave in a Transition Metal Dichalcogenide. Physical Review Letters, 2007, 99, 216404.	7.8	76
97	Evolution of the Electronic Structure of $1\text{T}\hat{\Gamma}^{\sim}\text{Cu}_x\text{TiSe}_2$ . Physical Review Letters, 2007, 99, 146401.	7.8	75
98	Theoretical study of inelastic X-ray scattering spectra for organic materials: Molecular excitation coupled with molecular exciton descriptions. Synthetic Metals, 2007, 157, 670-677.	3.9	0