

# 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	Black phosphorus field-effect transistors. Nature Nanotechnology, 2014, 9, 372-377.	31.5	7,071
2	Gate-tunable phase transitions in thin flakes of 1T-TaS <sub>2</sub> . Nature Nanotechnology, 2015, 10, 270-276.	31.5	584
3	Interface-induced superconductivity and strain-dependent spin density waves in FeSe/SrTiO <sub>3</sub> thin films. Nature Materials, 2013, 12, 634-640.	27.5	581
4	Signature of Strong Spin-Orbital Coupling in the Large Nonsaturating Magnetoresistance Material $WTe_2$ . Physical Review Letters, 2015, 115, 166601.	7.8	204
5	A metallic mosaic phase and the origin of Mott-insulating state in 1T-TaS <sub>2</sub> . Nature Communications, 2016, 7, 10956.	12.8	196
6	Iron-based high transition temperature superconductors. National Science Review, 2014, 1, 371-395.	9.5	167
7	Robust and Clean Majorana Zero Mode in the Vortex Core of High-Temperature Superconductor $LiFeAs$ . Physical Review Letters, 2011, 106, 117001.	8.9	156
8	Electronic Structure and Unusual Exchange Splitting in the Spin-Density-Wave State of the $BaFe_2As_2$ Compound of Iron-Based Superconductors. Physical Review Letters, 2009, 102, 107002.	7.8	148
9	Symmetry breaking via orbital-dependent reconstruction of electronic structure in detwinned NaFeAs. Physical Review B, 2012, 85, .	3.2	134
10	Electronic Identification of the Parental Phases and Mesoscopic Phase Separation of $KxFe_2As_2$ . Physical Review X, 2011, 1, .	8.9	128
11	Measurement of an Enhanced Superconducting Phase and a Pronounced Anisotropy of the Energy Gap of a Strained FeSe Single Layer in $NbFeSe$ . Physical Review Letters, 2014, 112, 107001.	7.8	117
12	Electron-Doped $Sr_2FeAs_2$ An Analogue of Hole-Doped Cuprate Superconductors Demonstrated by Scanning Tunneling Microscopy. Physical Review X, 2015, 5, .	8.9	110
13	Surface electronic structure and isotropic superconducting gap in $Bi_2Te_3$ . Physical Review B, 2015, 92, .	8.2	109
14	Electronic structure of $FeAs_2$ . Physical Review B, 2010, 81, .	8.2	104
15	Direct observation of how the heavy-fermion state develops in $CeCoIn_5$ . Physical Review B, 2017, 96, .	8.2	94
16	Onset of the Meissner effect at 65 K in FeSe thin film grown on Nb-doped SrTiO <sub>3</sub> substrate. Science Bulletin, 2015, 60, 1301-1304.	9.0	89
17	Origin of the Superconducting Bands in the Iron-based Superconductor $CoFeAs$ . Physical Review Letters, 2015, 115, 167001.	3.2	86
18	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

#	ARTICLE	IF	CITATIONS
19	Presence of exotic electronic surface states in LaBi and LaSb. Physical Review B, 2016, 94, .	3.2	79
20	Out-of-Plane Momentum and Symmetry-Dependent Energy Gap of the Pnictide $Ba_{1-x}K_xFe_2As_{2-y}P_y$ Revealed by Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2010, 105, 117003.	7.8	77
21	Novel Mechanism of a Charge Density Wave in a Transition Metal Dichalcogenide. Physical Review Letters, 2007, 99, 216404.	7.8	76
22	Evolution of the Electronic Structure of $Ta_{1-x}Cu_xTiSe_2$ . Physical Review Letters, 2007, 99, 146401.	7.8	75
23	Electronic-Structure-Driven Magnetic and Structure Transitions in Superconducting NaFeAs Single Crystals Measured by Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2010, 105, 117002.	7.8	74
24	Evidence for an $s$ -wave superconducting gap in $K_xFe_{1-x}S_2$ . Physical Review Letters, 2016, 117, 157003.	3.2	72
25	Colloquium: Heavy-electron quantum criticality and single-particle spectroscopy. Reviews of Modern Physics, 2020, 92, .	45.6	70
26	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
27	Highly Anisotropic and Twofold Symmetric Superconducting Gap in Nematically Ordered $FeSe_{1-x}S_x$ . Physical Review Letters, 2016, 117, 157003.	7.8	68
28	Quantized Conductance of Majorana Zero Mode in the Vortex of the Topological Superconductor (Li)TjETQq000rgBT /Overlock 10 TF	3.5	67
29	Extraordinary Doping Effects on Quasiparticle Scattering and Bandwidth in Iron-Based Superconductors. Physical Review X, 2014, 4, .	8.9	66
30	Unusual Doping Dependence of the Electronic Structure and Coexistence of Spin-Density-Wave and Superconductor Phases in Single Crystalline $Sr_{1-x}K_xFe_2As_2$ . Physical Review Letters, 2008, 101, 226406.	7.8	62
31	Primary Role of the Barely Occupied States in the Charge Density Wave Formation of $NbSe_{2-x}S_x$ . Physical Review Letters, 2008, 101, 226406.	7.8	57
32	Ultrafast Modulation of the Chemical Potential in $BaFe_{1-x}P_xAs_2$ . Physical Review Letters, 2014, 112, .	7.8	56
33	Dirac fermions in antiferromagnetic FeSn kagome lattices with combined space inversion and time-reversal symmetry. Physical Review B, 2020, 102, .	3.2	52
34	Surface electronic structure and evidence of plain $s$ -wave superconductivity in $K_xFe_{1-x}S_2$		

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37	Unveiling the Superconducting Mechanism of $\text{BaK}_{0.51}\text{Fe}_{0.49}\text{As}_2$ . Physical Review Letters, 2018, 121, 117002.	7.8	49
38	Band Dependent Interlayer f -Electron Hybridization in CeRhIn5. Physical Review Letters, 2018, 120, 066403.	7.8	49
39	Surface and bulk electronic structures of LaFeAsO studied by angle-resolved photoemission spectroscopy. Physical Review B, 2010, 82, .	3.2	48
40	Superconducting Coherence Peak in the Electronic Excitations of a Single-Layer $\text{Bi}_2\text{Sr}_{1.6}\text{La}_{0.4}\text{CuO}_6 + \hat{1}$ Cuprate Superconductor. Physical Review Letters, 2008, 101, 097005.	7.8	45
41	Doping dependence of the electronic structure in phosphorus-doped ferropnictide superconductor $\text{BaFe}_{1-x}\text{P}_x\text{As}_2$ .		

#	ARTICLE	IF	CITATIONS
55	Observation of Discrete Conventional Caroliâ€“de Gennesâ€“Matricon States in the Vortex Core of Single-Layer FeSe/SrTiO3. Physical Review Letters, 2020, 124, 097001.	7.8	23
56	Knot undulator to generate linearly polarized photons with low on-axis power density. Review of Scientific Instruments, 2009, 80, 085108. <a href="#">Charge Transfer Effects in Naturally Occurring van der Waals Heterostructures</a>	1.3	22
57	<a href="#">Charge Transfer Effects in Naturally Occurring van der Waals Heterostructures</a> xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:mi>PbSe</mml:mi><mml:msub><mml:mrow><mml:mo>Tj ETQq1 1 0.784314 rgBT /Overlock 10		

#	ARTICLE	IF	CITATIONS
73	The relevance of ARPES to high-T <sub>c</sub> superconductivity in cuprates. Npj Quantum Materials, 2020, 5, .	5.2	10
74	The orbital characters of low-energy electronic structure in iron-chalcogenide superconductor K x Fe2â <sup>~</sup> y Se2. Science Bulletin, 2012, 57, 3829-3835.	1.7	9
75	Observation of gapped phases in potassium-doped single-layer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>p</mml:mi></mml:math> -terphenyl on Au (111). Physical Review B, 2019, 99, .	3.2	7
76	Weak electronic correlations and absence of heavy-fermion state in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>K</mml:mi><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub><mml:mi>mathvariant="normal">Ni</mml:mi><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub><mml:mi>mathvariant="normal">Se</mml:mi><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2015, 91, .	3.2	6
77	The spatial distribution of two dimensional electron gas at the LaTiO<sub>3</sub>/KTaO<sub>3</sub> interface. Journal of Physics Condensed Matter, 2017, 29, 315001.	1.8	6
78	Intertwined Spin and Orbital Density Waves in MnP Uncovered by Resonant Soft X-Ray Scattering. Physical Review X, 2019, 9, .	8.9	6
79	Wei, Zhang, and Feng Reply:. Physical Review Letters, 2009, 103, .	7.8	5
80	Electronic structure reconstruction of Ca1â <sup>~</sup> xPrxFe2As2in the collapsed tetragonal phase. Physical Review B, 2014, 90, .	3.2	5
81	Distinct Kondo Screening Behaviors in Heavy Fermion Filled Shutterlides with <mml:math display="inline"><mml:mn>4</mml:mn><mml:msup><mml:mi>f</mml:mi></mml:msup></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>4</mml:mn><mml:msup><mml:mi>f</mml:mi></mml:msup></mml:math> Configurations. Physical Review Letters, 2021, 126, 136402.	7.8	5
82	Momentum-resolved electronic structure and band offsets in an epitaxial NbN/GaN superconductor/semiconductor heterojunction. Science Advances, 2021, 7, eabi5833.	10.3	5
83	Lattice distortion and charge density wave in Na<sub>2</sub>Ti<sub>2</sub>Sb<sub>2</sub>O revealed by scanning tunnelling microscopy. Philosophical Magazine, 2017, 97, 527-534.	1.6	4
84	Extraction of a clean charge-density-wave gap for 2H-. Journal of Physics and Chemistry of Solids, 2008, 69, 2956-2959.	4.0	3
85	Electronic structure reconstruction of CaFe2As2 in the spin density wave state. Journal of Physics and Chemistry of Solids, 2011, 72, 469-473.	4.0	3
86	Angle-resolved photoemission study of the electronic structure of the quantum spin liquidEtMe3Sb[Pd(dmit)2]2. Physical Review B, 2014, 89, .	3.2	3
87	Electronic structure and signature of Tomonagaâ€™Luttinger liquid state in epitaxial CoSb1â <sup>~</sup> x nanoribbons. Npj Quantum Materials, 2021, 6, .	5.2	3
88	Anomalous helimagnetic domain shrinkage due to the weakening of the Dzyaloshinskii-Moriya interaction in CrAs. Physical Review B, 2020, 102, .	3.2	3
89	Physical properties of noncentrosymmetric tungsten and molybdenum aluminides. Physical Review Materials, 2018, 2, .	2.4	3
90	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

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91	Superconductivity induced by U doping in the SmFeAsO system. Physical Review B, 2013, 87, .	3.2	2
92	Electronic structure and magnetic phase transition of hexagonal FeSe thin films studied by photoemission spectroscopy. Physical Review B, 2017, 96, .	3.2	2
93	Enhanced superconductivity of Ba <sub>0.5</sub> K <sub>0.5</sub> Fe <sub>2</sub> As <sub>2</sub> under surface potassium dosing. Journal of Physics Condensed Matter, 2018, 30, 455601.	1.8	2
94	Nodeless superconducting gaps in Ca <sub>10</sub> (Pt <sub>4</sub> As <sub>8</sub> )(Fe <sub>1-x</sub> Pt <sub>x</sub> ) <sub>2</sub> As <sub>2</sub> 5 probed by quasiparticle heat transport. Science China: Physics, Mechanics and Astronomy, 2016, 59, 1.	5.1	1
95	Observations of abundant structural and electronic phases in potassium-doped single-layer p-quaterphenyl film. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	5.1	1
96	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
97	Magnetic and electronic properties of single-crystalline BaCoSO. Physical Review B, 2019, 100, .	3.2	0
98	Angle Resolved Photoemission Spectroscopy Study Utilizing the Synchrotron Radiation. , 2018, , 1-35.		0