

# Evidence for Majorana bound states in an iron-based superconductor

Science

362, 333-335

DOI: [10.1126/science.aao1797](https://doi.org/10.1126/science.aao1797)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Tunneling into the Vortex State of NbSe <sub>2</sub> with van der Waals Junctions. Nano Letters, 2018, 18, 7845-7850.	4.5	20
2	Robust and Clean Majorana Zero Mode in the Vortex Core of High-Temperature Superconductor $\frac{2.8}{0.84} \frac{156}{\dots}$	2.8	156
3	Majorana corner states in a two-dimensional magnetic topological insulator on a high-temperature superconductor. Physical Review B, 2018, 98, .	1.1	128
4	Edge States at Nematic Domain Walls in FeSe Films. Nano Letters, 2018, 18, 7176-7180.	4.5	16
5	Signatures of nodeless multiband superconductivity and particle-hole crossover in the vortex cores of FeTe <sub>1-y</sub> Se <sub>y</sub> superconductors. Physical Review B, 2018, 98, .	1.1	6
6	Weak-pairing higher order topological superconductors. Physical Review B, 2018, 98, .	1.1	152
7	High-Temperature Majorana Corner States. Physical Review Letters, 2018, 121, 186801.	2.9	194
8	Majorana Corner Modes in a High-Temperature Platform. Physical Review Letters, 2018, 121, 096803.	2.9	210
9	Half-integer level shift of vortex bound states in an iron-based superconductor. Nature Physics, 2019, 15, 1181-1187.	6.5	144
10	2D materials for quantum information science. Nature Reviews Materials, 2019, 4, 669-684.	23.3	305
11	Review of annealing effects and superconductivity in Fe <sub>1-y</sub> Te <sub>1-x</sub> Se <sub>y</sub> superconductors. Superconductor Science and Technology, 2019, 32, 103001.	1.8	45
12	Evidence of anisotropic Majorana bound states in 2M-WS <sub>2</sub> . Nature Physics, 2019, 15, 1046-1051.	6.5	104
13	Exploring Topological Superconductivity in Topological Materials. Advanced Quantum Technologies, 2019, 2, 1800112.	1.8	34
14	Quasi-1D Topological Nodal Vortex Line Phase in Doped Superconducting 3D Dirac Semimetals. Physical Review Letters, 2019, 123, 027003.	2.9	33
15	Experimental evidence of anomalously large superconducting gap on topological surface state of $\hat{\Gamma}$ -Bi <sub>2</sub> Pd film. Science Bulletin, 2019, 64, 1215-1221.	4.3	18
16	Manipulating Multivortex States in Superconducting Structures. Nano Letters, 2019, 19, 5476-5482.	4.5	14
17	Evidence for Helical Hinge Zero Modes in an Fe-Based Superconductor. Nano Letters, 2019, 19, 4890-4896.	4.5	51
18	Distinguishing Majorana zero modes from impurity states through time-resolved transport. New Journal of Physics, 2019, 21, 103038.	1.2	19

#	ARTICLE	IF	CITATIONS
19	Vortex bound states of charge and magnetic fluctuations induced topological superconductors in heterostructures. Physical Review B, 2019, 100, .	1.1	5
20	Lattice-Symmetry-Assisted Second-Order Topological Superconductors and Majorana Patterns. Physical Review Letters, 2019, 123, 156801.	2.9	68
21	Higher-Order Topology and Nodal Topological Superconductivity in Fe(Se,Te) Heterostructures. Physical Review Letters, 2019, 123, 167001.	2.9	112
22	Synthesis and characterization of a new quasi-one-dimensional antiferromagnet CoF <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub> (pyrazine). Science China Materials, 2019, 62, 1815-1820.	3.5	12
23	Interacting valley Chern insulator and its topological imprint on moiré superconductors. Physical Review B, 2019, 100, .	1.1	5
24	Superconductivity of Topological Surface States and Strong Proximity Effect in Sn 1 $\hat{a}$ x Pb x Te $\hat{a}$ Pb Heterostructures. Advanced Materials, 2019, 31, 1905582.	11.1	15
25	Signatures of Majorana doublet in the Fano Rashba interferometer. Journal of Physics Condensed Matter, 2019, 31, 305303.	0.7	0
26	Majorana corner and hinge modes in second-order topological insulator/superconductor heterostructures. Physical Review B, 2019, 100, .	1.1	54
27	Tunability of the Andreev reflection induced by the Majorana zero mode. Physica B: Condensed Matter, 2019, 574, 311658.	1.3	0
28	Evolution of superconductivity in K <sub>2x</sub> Fe <sub>4+y</sub> Se <sub>5</sub> : Spectroscopic studies of X-ray absorption and emission. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22458-22463.	3.3	3
29	$\langle \text{mml:math} \text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \text{FeTe} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mn} \rangle 0.55 \text{ van der Waals tunneling devices. Physical Review B, 2019, 100, .$	1.1	37
30	$\langle \text{mml:math} \text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \text{T} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{c} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{FeTe} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mn} \rangle 1 \langle \text{mml:mrow} \langle \text{mml:mo} \rangle \hat{a} \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{x} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{Se} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{x} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{films on} \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{Angle-resolved photoemission spectroscopy and its application to} \hat{a} \text{topological materials. Nature Reviews Physics, 2019, 1, 609-626.$	11.9	190
32	Terahertz excitations in $\langle \text{mml:math} \text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \hat{1} \langle \text{mml:mi} \rangle \langle \text{mml:mtext} \rangle \hat{a} \langle \text{mml:mtext} \rangle \langle \text{mml:mi} \rangle \text{RuC} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{l} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{Majorana fermions and rigid-plane shear and compression modes. Physical Review B, 2019, 100, .$	1.1	16
33	Topological ordering in the Majorana toric code. Physical Review B, 2019, 100, .	1.1	3
34	Robust topological nodal lines in halide carbides. Physical Chemistry Chemical Physics, 2019, 21, 20262-20268.	1.3	10
35	Topological crystalline superconductivity in Dirac semimetal phase of iron-based superconductors. Physical Review B, 2019, 100, .	1.1	13
37	Crystalline-Symmetry-Protected Helical Majorana Modes in the Iron Pnictides. Physical Review Letters, 2019, 122, 207001.	2.9	35

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38	Zero-energy vortex bound state in the superconducting topological surface state of Fe(Se,Te). Nature Materials, 2019, 18, 811-815.	13.3	214
39	Isolated pairs of Majorana zero modes in a disordered superconducting lead monolayer. Nature Communications, 2019, 10, 2587.	5.8	47
40	Single full gap with mixed type-I and type-II superconductivity on surface of the type-II Dirac semimetal $\text{PdTe}_2$ by point-contact spectroscopy. Physical Review B, 2019, 99, .	1.1	18
41	Topological Superconductivity in UCoGe. Physical Review Letters, 2019, 122, 227001.	2.9	26
42	Hexagonal warping effect on Majorana zero modes at the ends of superconducting vortex lines in doped strong 3D topological insulators. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	2.0	2
43	Observation of a Majorana zero mode in a topologically protected edge channel. Science, 2019, 364, 1255-1259.	6.0	127
44	Interacting Majorana fermions. Reports on Progress in Physics, 2019, 82, 084501.	8.1	33
45	Interplay of paramagnetism and topology in the Fe-chalcogenide high- $T_c$ superconductors. Physical Review B, 2019, 99, .	2.1	11
46	Helical Hinge Majorana Modes in Iron-Based Superconductors. Physical Review Letters, 2019, 122, 187001.	2.9	108
47	Bottom-up grown nanowire quantum devices. MRS Bulletin, 2019, 44, 403-410.	1.7	3
48	Quantized Conductance of Majorana Zero Mode in the Vortex of the Topological Superconductor (Li) <sub>1-x</sub> Tl <sub>x</sub> ETQq000.rgBT/Overlock 10 Tf	1.5	67
49	Chiral topological superconductivity arising from the interplay of geometric phase and electron correlation. Nature Physics, 2019, 15, 796-802.	6.5	37
50	Heat pumping from braiding Majorana zero modes. Physical Review B, 2019, 99, .	1.1	5
51	Majorana lattices from the quantized Hall limit of a proximitized spin-orbit coupled electron gas. Physical Review B, 2019, 99, .	1.1	4
52	Topological quantum states of matter in iron-based superconductors: from concept to material realization. National Science Review, 2019, 6, 213-226.	4.6	61
53	Quasi-2D superconductivity in $\text{FeTe}_{0.55}\text{Se}_{0.45}$ ultrathin film. Journal of Physics Condensed Matter, 2019, 31, 265702.	0.7	6
54	Detecting competing orders through the edge states in the heterostructures with high- $T_c$ superconductors. Physical Review B, 2019, 99, .	2.3	11
55	Majorana gets an iron twist. National Science Review, 2019, 6, 196-197.	4.6	6

#	ARTICLE	IF	CITATIONS
56	Realization of low-energy type-II Dirac fermions in (Ir <sub>1-x</sub> Pt <sub>x</sub> ) TlTe. <i>Physical Review Letters</i> , 2019, 123, 077201.	10.7	6
57	A general route to form topologically-protected surface and bulk Dirac fermions along high-symmetry lines. <i>Electronic Structure</i> , 2019, 1, 014002.	1.0	14
58	Catalogue of topological electronic materials. <i>Nature</i> , 2019, 566, 475-479.	13.7	600
59	Topological Larkin-Ovchinnikov phase and Majorana zero mode chain in bilayer superconducting topological insulator films. <i>Communications Physics</i> , 2019, 2, .	2.0	10
60	Quantum Anomalous Vortex and Majorana Zero Mode in Iron-Based Superconductor Fe(Te,Se). <i>Physical Review X</i> , 2019, 9, .	2.8	44
61	Dynamics of a Majorana Trijunction in a Microwave Cavity. <i>Advanced Quantum Technologies</i> , 2019, 2, 1900091.	1.8	3
62	Proximity-induced superconductivity in a topological crystalline insulator. <i>Physical Review B</i> , 2019, 100, .	1.1	7
63	Observation of topological surface states in the high-temperature superconductor $MgB_2$ . <i>Physical Review B</i> , 2019, 100, .	1.1	7
64	Flux-induced topological superconductor in planar Josephson junction. <i>Physical Review B</i> , 2019, 100, .	1.1	7
65	Topological electronic states in HfRuP family superconductors. <i>Npj Computational Materials</i> , 2019, 5, .	3.5	21
66	Protocol for Reading Out Majorana Vortex Qubits and Testing Non-Abelian Statistics. <i>Physical Review Applied</i> , 2019, 12, .	1.5	10
67	$\hat{I}^2$ : A topological superconductor candidate. <i>Physical Review B</i> , 2019, 99, .	1.5	10
68	Multiple topological states in iron-based superconductors. <i>Nature Physics</i> , 2019, 15, 41-47.	6.5	170
69	Magnetotransport Properties in Epitaxial Fe <sub>1.1</sub> Te <sub>0.7</sub> Se <sub>0.3</sub> Films. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020, 33, 165-169.	0.8	0
70	Evidence for dispersing 1D Majorana channels in an iron-based superconductor. <i>Science</i> , 2020, 367, 104-108.	6.0	116
71	Majorana fermions go for a ride. <i>Science</i> , 2020, 367, 23-24.	6.0	1
72	Nearly quantized conductance plateau of vortex zero mode in an iron-based superconductor. <i>Science</i> , 2020, 367, 189-192.	6.0	172
73	Semiconductor-Ferromagnetic Insulator-Superconductor Nanowires: Stray Field and Exchange Field. <i>Nano Letters</i> , 2020, 20, 456-462.	4.5	49

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74	Driven Dissipative Majorana Dark Spaces. <i>Physical Review Letters</i> , 2020, 125, 147701.	2.9	16
75	Doping-Induced Superconductivity in the Topological Semimetal $\text{Mo}_5\text{Si}_3$ . <i>Chemistry of Materials</i> , 2020, 32, 8930-8937.	3.2	10
76	Towards dark space stabilization and manipulation in driven dissipative Majorana platforms. <i>Physical Review B</i> , 2020, 102, .	1.1	12
77	Exotic Superconducting States in FeSe-based Materials. <i>Journal of the Physical Society of Japan</i> , 2020, 89, 102002.	0.7	87
78	Boundary-Obstructed Topological High- $T_c$ Superconductivity in Iron Pnictides. <i>Physical Review X</i> , 2020, 10, .	2.8	46
79	Superconductivity in $\text{CaAl}_2\text{S}_2$ . <i>Physical Review B</i> , 2020, 102, .	1.1	9
80	Vortex and Surface Phase Transitions in Superconducting Higher-order Topological Insulators. <i>Physical Review Letters</i> , 2020, 125, 037001.	2.9	31
81	Electronic and Superconducting Properties of Some FeSe-Based Single Crystals and Films Grown Hydrothermally. <i>Frontiers in Physics</i> , 2020, 8, .	1.0	10
82	A new Majorana platform in an Fe-As bilayer superconductor. <i>Nature Communications</i> , 2020, 11, 5688.	5.8	84
83	Observation of Topological Electronic Structure in Quasi-1D Superconductor $\text{TaSe}_3$ . <i>Matter</i> , 2020, 3, 2055-2065.	5.0	26
84	Spontaneous Nernst effect in the iron-based superconductor $\text{Fe}_2\text{Mn}_2\text{P}_2$ . <i>Physical Review B</i> , 2020, 102, .	1.1	2
85	Vortex bound state of a Kondo lattice coupled to a compensated metal. <i>Physical Review B</i> , 2020, 102, .	1.1	2
86	Nodeless superconducting gap in the topological superconductor candidate $\text{M}_2\text{Mn}_2\text{P}_2$ . <i>Physical Review B</i> , 2020, 102, .	1.1	2
87	N-independent Localized Krylovâ€“Bogoliubov-de Gennes Method: Ultra-fast Numerical Approach to Large-scale Inhomogeneous Superconductors. <i>Journal of the Physical Society of Japan</i> , 2020, 89, 074703.	0.7	18
88	Transport properties of Majorana drumhead surface states in topological nodal-ring superconductors. <i>Physical Review B</i> , 2020, 102, .	1.1	11
89	Quantum transport of planar Josephson junctions with Majorana bound states. <i>Physical Review B</i> , 2020, 102, .	1.1	6
90	High-throughput calculations of magnetic topological materials. <i>Nature</i> , 2020, 586, 702-707.	13.7	241
91	Type-II Dirac Semimetal State in a Superconductor Tantalum Carbide*. <i>Chinese Physics Letters</i> , 2020, 37, 087103.	1.3	13



#	Topological properties of $\text{MoS}_2$ and $\text{WSe}_2$ superconductors. Physical Review B, 2020, 124, 257001.	IF	CITATIONS
110	Band inversion and topology of the bulk electronic structure in $\text{FeSe}$ . Physical Review B, 2020, 101, .	1.1	12
111	Twofold symmetry of proximity-induced superconductivity in $\text{Bi}_2\text{Te}_3/\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ heterostructures revealed by scanning tunneling microscopy. Physical Review B, 2020, 101, .	2.9	24
112	Majorana phase gate based on the geometric phase. Physical Review B, 2020, 101, .	1.1	9
113	Observation of Discrete Conventional Caroli-de Gennes-Matricon States in the Vortex Core of Single-Layer $\text{FeSe}/\text{SrTiO}_3$ . Physical Review Letters, 2020, 124, 097001.	2.9	23
114	Atomic line defects and zero-energy end states in monolayer $\text{Fe}(\text{Te},\text{Se})$ high-temperature superconductors. Nature Physics, 2020, 16, 536-540.	6.5	78
115	Flux-induced topological superconductivity in full-shell nanowires. Science, 2020, 367, .	6.0	129
116	Superconductivity in Single-Quintuple-Layer $\text{Bi}_2\text{Te}_3$ Grown on Epitaxial $\text{FeTe}$ . Nano Letters, 2020, 20, 3160-3168.	4.5	22
117	Crossband versus intraband pairing in superconductors: Signatures and consequences of the interplay. Physical Review B, 2020, 101, .	1.1	19
118	Nodeless superconducting gap in the candidate topological superconductor $\text{Sn}_1\text{In}_x\text{Te}_9$ for $x < 1$ . Physical Review B, 2020, 101, .	1.1	9
119	Field-free platform for Majorana-like zero mode in superconductors with a topological surface state. Physical Review B, 2020, 101, .	1.1	22
120	Nanoscale electronic inhomogeneity in $\text{FeSe}$ revealed through unsupervised machine learning. Physical Review B, 2020, 101, .	1.1	1
121	Transport signatures of Majorana bound states in superconducting hybrid structures. European Physical Journal: Special Topics, 2020, 229, 593-620.	1.2	13
122	Pressure-induced topological superconductivity in the spin-orbit Mott insulator $\text{GaTa}_4\text{Se}_8$ . Npj Quantum Materials, 2020, 5, .	1.8	14
123	Block-spiral magnetism: An exotic type of frustrated order. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16226-16233.	3.3	25
124	First- and Second-Order Topological Superconductivity and Temperature-Driven Topological Phase Transitions in the Extended Hubbard Model with Spin-Orbit Coupling. Physical Review Letters, 2020, 125, 017001.	2.9	50
125	Correlation between Fermi surface reconstruction and superconductivity in pressurized $\text{FeTe}$ . Physical Review B, 2020, 101, .	2.9	55



#	ARTICLE	IF	CITATIONS
128	Leakage of Majorana bound states in an inhomogeneous topological nanowire. Journal of Physics Condensed Matter, 2020, 32, 435602.	0.7	0
129	Magnetic exchange induced Weyl state in a semimetal EuCd <sub>2</sub> Sb <sub>2</sub> . APL Materials, 2020, 8, .	2.2	37
130	Scalable Majorana vortex modes in iron-based superconductors. Science Advances, 2020, 6, eaay0443.	4.7	61
131	Majorana corner flat bands in two-dimensional second-order topological superconductors. Physical Review B, 2020, 101, .	1.1	25
132	Weak Measurement Protocols for Majorana Bound State Identification. Physical Review Letters, 2020, 124, 096801.	2.9	41
133	Growth of High-Quality Superconducting FeSe <sub>0.5</sub> Te <sub>0.5</sub> Films on Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> ) <sub>0.7</sub> Ti <sub>0.3</sub> O <sub>3</sub> and Electric-Field Modulation of Superconductivity. ACS Applied Materials & Interfaces, 2020, 12, 12238-12245.	4.0	9
134	Bosonic Mode and Impurity-Scattering in Monolayer Fe(Te,Se) High-Temperature Superconductors. Nano Letters, 2020, 20, 2056-2061.	4.5	7
135	Relation of Superconducting Pairing Symmetry and Non-Magnetic Impurity Effects in Vortex States. Symmetry, 2020, 12, 175.	1.1	3
136	Heterostructural one-unit-cell FeSe/SrTiO <sub>3</sub> : from high-temperature superconductivity to topological states. 2D Materials, 2020, 7, 022006.	2.0	14
137	Microscopic characterization of the superconducting gap function in $\text{Sn}_{1-x}\text{In}_x\text{Te}$ . Physical Review B, 2020, 101, .		
138	Revealing the nonlocal coherent nature of Majorana devices from dissipative teleportation. Physical Review B, 2020, 101, .	1.1	9
139	Spin-Orbital-Intertwined Nematic State in FeSe. Physical Review X, 2020, 10, .	2.8	18
140	Braiding Majorana fermions and creating quantum logic gates with vortices on a periodic pinning structure. Physical Review B, 2020, 101, .	1.1	27
141	Correlation effects on the magnetization process of the Kitaev model. Physical Review B, 2020, 101, .	1.1	6
142	Exploring High Transition Temperature Superconductivity in a Freestanding or SrTiO <sub>3</sub> -Supported CoSb Monolayer. Physical Review Letters, 2020, 124, 027002.	2.9	14
143	Robust Zero Energy Modes on Superconducting Bismuth Islands Deposited on Fe(Te,Se). Nano Letters, 2020, 20, 2965-2972.	4.5	6
144	Direction and symmetry transition of the vector order parameter in topological superconductors CuxBi <sub>2</sub> Se <sub>3</sub> . Nature Communications, 2020, 11, 235.	5.8	27
145	Electronic and lattice structure of CaFe <sub>1-x</sub> CoxAsF probed by x-ray absorption spectroscopy. Materials Research Express, 2020, 7, 016001.	0.8	2

#	ARTICLE	IF	CITATIONS
146	Effect of Zeeman coupling on the Majorana vortex modes in iron-based topological superconductors. <i>Physical Review B</i> , 2020, 101, .	1.1	19
147	Proposal for probing the Majorana zero modes by testing the Pauli exclusion principle with two quantum dots. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126496.	0.9	1
148	The Josephson Effect in $\text{PbIn/Fe}_1\text{â€“ySe}_1\text{â€“x}$ Tex Point Contacts: Probing the Order Parameter Symmetry. <i>Journal of Experimental and Theoretical Physics</i> , 2020, 130, 204-213.	0.2	2
149	Achieving the depairing limit along the c axis in $\text{Fe}_{1+y}\text{Te}_{1-x}\text{Se}_x$ single crystals. <i>Physical Review B</i> , 2020, 101, .	1.1	10
150	Signature of a pair of Majorana zero modes in superconducting gold surface states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 8775-8782.	3.3	112
151	Two superconducting phases induced at point contacts on the Weyl semimetal TaAs. <i>Physical Review B</i> , 2020, 101, .	1.1	11
152	Zero-energy bound states in the high-temperature superconductors at the two-dimensional limit. <i>Science Advances</i> , 2020, 6, eaax7547.	4.7	25
153	Generic quantized zero-bias conductance peaks in superconductor-semiconductor hybrid structures. <i>Physical Review B</i> , 2020, 101, .	1.1	55
154	Evidence for ferromagnetic order in the CoSb layer of $\text{LaCoSb}_2$ . <i>Physical Review B</i> , 2020, 101, .	1.1	3
155	Probing the Majorana bound states in a hybrid nanowire double-quantum-dot system by scanning tunneling microscopy. <i>Chinese Physics B</i> , 2020, 29, 077302.	0.7	3
156	Bulk Fermi surface of the layered superconductor $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{TaS} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{e} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ with three-dimensional strong topological state. <i>Physical Review B</i> , 2020, 101, .	1.1	16
157	New types of topological superconductors under local magnetic symmetries. <i>National Science Review</i> , 2021, 8, nwaal69.	4.6	6
158	Observation of robust edge superconductivity in $\text{Fe}(\text{Se},\text{Te})$ under strong magnetic perturbation. <i>Science Bulletin</i> , 2021, 66, 425-432.	4.3	9
159	Effects of an indirectly-coupled quantum dot on the Andreev reflection induced by Majorana modes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 385, 126945.	0.9	0
160	Quasi-one-dimensional $\text{TaSe}_3$ : A New Topological Superconductor Candidate. <i>Matter</i> , 2021, 4, 19-21.	5.0	7
161	Andreev reflection induced by Majorana zero mode in the presence of ferromagnetic lead. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 128, 114585.	1.3	1
162	Characterization of structure and superconducting properties of low-temperature phase of Pb-Bi alloy films. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2021, 70, 170703.	0.2	4
163	Vortex bound states and Majorana zero mode in electron-doped FeSe-based high-temperature superconductor. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2021, 70, 017401.	0.2	0

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164	Topological Transition of Superconductivity in Dirac Semimetal Nanowire Josephson Junctions. Physical Review Letters, 2021, 126, 027001.	2.9	14
165	Spatially dispersing Yu-Shiba-Rusinov states in the unconventional superconductor FeTe <sub>0.55</sub> Se <sub>0.45</sub> . Nature Communications, 2021, 12, 298.	5.8	16
166	Large spectral gap and impurity-induced states in a two-dimensional Abrikosov vortex. Physical Review B, 2021, 103, .	1.1	2
167	Topological orders competing for the Dirac surface state in FeSeTe surfaces. Physical Review Research, 2021, 3, .	1.3	15
168	The 2021 quantum materials roadmap. JPhys Materials, 2020, 3, 042006.	1.8	111
169	Evidence of topological nodal lines and surface states in the centrosymmetric superconductor $\text{SnTaS}_2$ . Physical Review B, 2021, 103, .	1.1	15
170	Zero-Bias Conductance Peaks Effectively Tuned by Gating-Controlled Rashba Spin-Orbit Coupling. Physical Review Letters, 2021, 126, 057701.	2.9	6
171	Spin-Polarized Yu-Shiba-Rusinov States in an Iron-Based Superconductor. Physical Review Letters, 2021, 126, 076802.	2.9	43
172	Low-temperature environments for quantum computation and quantum simulation*. Chinese Physics B, 2021, 30, 020702.	0.7	3
173	Ab initio simulation of non-Abelian braiding statistics in topological superconductors. Physical Review B, 2021, 103, .	1.1	7
174	Pairing symmetry in monolayer of orthorhombic CoSb. Frontiers of Physics, 2021, 16, 1.	2.4	4
175	Bulk superconductivity in the Dirac semimetal TlSb. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	5
176	Superconductivity in centrosymmetric topological superconductor candidate TaC. Superconductor Science and Technology, 2021, 34, 035025.	1.8	16
177	The As-surface of an iron-based superconductor CaKFe <sub>4</sub> As <sub>4</sub> . Nano Research, 2021, 14, 3921-3925.	5.8	6
178	Formation of vortex rings and hopfions in trapped Bose-Einstein condensates. Physics of Fluids, 2021, 33, 027105.	1.6	7
179	Boundary topological superconductors. Physical Review B, 2021, 103, .	1.1	11
180	Intrinsic Time-Reversal-Invariant Topological Superconductivity in Thin Films of Iron-Based Superconductors. Physical Review Letters, 2021, 126, 137001.	2.9	28
181	Majorana bound states in vortex lattices on iron-based superconductors. Annals of Physics, 2021, , 168431.	1.0	8

#	ARTICLE	IF	CITATIONS
182	Half-integer quantized charge pumping induced by a Majorana fermion. Physical Review B, 2021, 103, .	1.1	1
183	High-resolution ARPES endstation for in situ electronic structure investigations at SSRF. Nuclear Science and Techniques/Hewuli, 2021, 32, 1.	1.3	34
184	Majorana and non-Majorana modes in a nanowire in partially proximity to a superconductor. Journal of Applied Physics, 2021, 129, 094301.	1.1	2
185	Triangular lattice Majorana-Hubbard model: Mean-field theory and DMRG on a width-4 torus. Physical Review B, 2021, 103, .	1.1	2
186	Scanning Tunneling Microscopy as a Single Majorana Detector of Kitaev's Chiral Spin Liquid. Physical Review Letters, 2021, 126, 127201.	2.9	21
187	Observation of Distinct Spatial Distributions of the Zero and Nonzero Energy Vortex Modes in Topological properties of noncentrosymmetric superconductors	0.84	1
188	Topological properties of noncentrosymmetric superconductors	1.1	3
189	Chiral $p$ -wave superconductivity in a twisted array of proximitized quantum wires. Physical Review B, 2021, 103, .	1.1	8
190	Probing topological quantum matter with scanning tunnelling microscopy. Nature Reviews Physics, 2021, 3, 249-263.	11.9	60
191	Recent Advances in 2D Superconductors. Advanced Materials, 2021, 33, e2006124.	11.1	68
192	Sixfold excitations in electrideres. Physical Review Research, 2021, 3, .	1.3	37
193	Charge and spin transport through a normal lead coupled to an $s$ -wave superconductor and a Majorana zero mode. Physical Review B, 2021, 103, .	1.1	8
194	Hybridization mechanism of the dual proximity effect in superconductor-topological insulator interfaces. Solid State Communications, 2021, 327, 114221.	0.9	6
195	Observation of magnetic adatom-induced Majorana vortex and its hybridization with field-induced Majorana vortex in an iron-based superconductor. Nature Communications, 2021, 12, 1348.	5.8	33
196	Tunable Majorana corner modes in noncentrosymmetric superconductors: Tunneling spectroscopy and edge imperfections. Physical Review Research, 2021, 3, .	1.3	17
197	Suppression of leakage effect of Majorana bound states in the T-shaped quantum-dot structure. Chinese Physics B, 0, , .	0.7	0
198	Three-dimensional time reversal invariant topological superconductivity in doped chiral topological semimetals. Physical Review B, 2021, 103, .	1.1	3
199	Electronic transport properties and hydrostatic pressure effect of $\text{FeSe}_{0.67}\text{Te}_{0.33}$ single crystals free of phase separation. Superconductor Science and Technology, 2021, 34, 055006.	1.8	12

#	ARTICLE	IF	CITATIONS
200	Electronic properties of the bulk and surface states of $\text{Fe}_{1+y}\text{Te}_{1-x}\text{Se}_x$ . <i>Nature Materials</i> , 2021, 20, 1221-1227.	13.3	34
201	Quantum computing's reproducibility crisis: Majorana fermions. <i>Nature</i> , 2021, 592, 350-352.	13.7	41
202	Observation of topological Dirac fermions and surface states in superconducting $\text{BaBi}_2\text{Te}_3$ . <i>Physical Review B</i> , 2021, 103, .	5.8	48
203	Majorana zero mode in the vortex of artificial topological superconductor. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	8
204	Spin-orbit coupling induced splitting of Yu-Shiba-Rusinov states in antiferromagnetic dimers. <i>Nature Communications</i> , 2021, 12, 2040.	5.8	48
205	Vortex-line topology in iron-based superconductors with and without second-order topology. <i>Physical Review B</i> , 2021, 103, .	1.1	25
206	Quantum spin Hall and quantum anomalous Hall states in magnetic $\text{Ti}_2\text{Te}_2\text{O}$ single layer. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 21LT01.	0.7	2
207	Atomically Thin Quantum Spin Hall Insulators. <i>Advanced Materials</i> , 2021, 33, e2008029.	11.1	28
208	High- $T_c$ superconductor $\text{Fe}(\text{Se},\text{Te})$ monolayer: an intrinsic, scalable and electrically tunable Majorana platform. <i>National Science Review</i> , 2022, 9, nwab087.	4.6	27
209	Effects of spin-orbit coupling in superconducting proximity devices: Application to $\text{CoSi}$ heterostructures. <i>Physical Review B</i> , 2021, 103, .	1.1	10
210	Angle-resolved photoemission studies of quantum materials. <i>Reviews of Modern Physics</i> , 2021, 93, .	16.4	230
211	$p + ip$ -wave pairing symmetry at type-II van Hove singularities. <i>Frontiers of Physics</i> , 2021, 16, 1.	2.4	1
212	Differential conductance and spin current in hybrid quantum dot-topological superconducting nanowire. <i>Quantum Information Processing</i> , 2021, 20, 1.	1.0	2
213	Quantum Logic Gates Based on DNAtronic, RNAtronic, and Proteintronic. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000273.	3.3	2
214	Interference effect on the Andreev reflections induced by Majorana bound states. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 215303.	0.7	2
215	Chiral Majorana hinge modes in superconducting Dirac materials. <i>Physical Review B</i> , 2021, 103, .	1.1	11
216	Observation of topological superconductivity in a stoichiometric transition metal dichalcogenide $2\text{M-WS}_2$ . <i>Nature Communications</i> , 2021, 12, 2874.	5.8	43
217	Interaction-induced topological phase transition and Majorana edge states in low-dimensional orbital-selective Mott insulators. <i>Nature Communications</i> , 2021, 12, 2955.	5.8	16

#	ARTICLE	IF	CITATIONS
218	Electronic and Magnetic Characterization of Epitaxial CrBr <sub>3</sub> Monolayers on a Superconducting Substrate. <i>Advanced Materials</i> , 2021, 33, e2006850.	11.1	38
219	Local density of states in a vortex at the surface of a topological insulator in a magnetic field. <i>European Physical Journal B</i> , 2021, 94, 1.	0.6	1
220	Low-energy in-gap states of vortices in superconductor-semiconductor heterostructures. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 294001.	0.7	3
221	Crystal topological superconducting state with Chern number $C$ . <i>Physical Review B</i> , 2021, 103, 040401.	1.1	6
222	Detecting and distinguishing Majorana zero modes with the scanning tunnelling microscope. <i>Nature Reviews Physics</i> , 2021, 3, 541-554.	11.9	40
223	Recent progress of scanning tunneling microscopy/spectroscopy study of Majorana bound states in the FeTe <sub>0.55</sub> Se <sub>0.45</sub> superconductor. <i>Superconductor Science and Technology</i> , 2021, 34, 073001.	1.8	9
224	Comparative study of superconducting and normal-state anisotropy in Fe <sub>1-x</sub> Te <sub>x</sub> superconductors with controlled amounts of interstitial excess Fe. <i>Physical Review B</i> , 2021, 103, 040401.	1.1	2
225	Nematic transition and nanoscale suppression of superconductivity in Fe(Te,Se). <i>Nature Physics</i> , 2021, 17, 903-908.	6.5	14
226	Chemical Vapor Deposition of Superconducting FeTe <sub>1-x</sub> Se <sub>x</sub> Nanosheets. <i>Nano Letters</i> , 2021, 21, 5338-5344.	4.5	15
227	Phase-induced topological superconductivity in a planar heterostructure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	13
228	Majorana zero modes in a cylindrical semiconductor quantum wire. <i>Physical Review B</i> , 2021, 104, .	1.1	2
229	Majorana zero modes in impurity-assisted vortex of LiFeAs superconductor. <i>Nature Communications</i> , 2021, 12, 4146.	5.8	44
230	Engineered platforms for topological superconductivity and Majorana zero modes. <i>Nature Reviews Materials</i> , 2021, 6, 944-958.	23.3	101
231	Measurement of Superconductivity and Edge States in Topological Superconductor Candidate TaSe <sub>3</sub> . <i>Chinese Physics Letters</i> , 2021, 38, 077302.	1.3	4
232	Pressure-Tuned Intralayer Exchange in Superlattice-Like MnBi <sub>2</sub> Te <sub>4</sub> (Bi <sub>2</sub> Te <sub>3</sub> ) <sub>n</sub> Topological Insulators. <i>Nano Letters</i> , 2021, 21, 5874-5880.	4.5	27
233	Focused ion beam microfabrication of single-crystal nanobridge toward Fe(Te, Se)-based Josephson device. <i>Journal of Physics: Conference Series</i> , 2021, 1975, 012010.	0.3	1
234	Hybrid Symmetry Epitaxy of the Superconducting Fe(Te,Se) Film on a Topological Insulator. <i>Nano Letters</i> , 2021, 21, 6518-6524.	4.5	9
235	Magnetization Signature of Topological Surface States in a Non-Symmorphic Superconductor. <i>Advanced Materials</i> , 2021, 33, e2103257.	11.1	3

#	ARTICLE	IF	CITATIONS
236	Strong Correlation Between Superconductivity and Ferromagnetism in an Fe-Chalcogenide Superconductor. Nano Letters, 2021, 21, 7277-7283.	4.5	27
237	Braiding Majorana zero mode in an electrically controllable way. Journal Physics D: Applied Physics, 2021, 54, 424003.	1.3	4
238	Three-Dimensional Charge Density Wave and Surface-Dependent Vortex-Core States in a Kagome Superconductor $\langle \text{CsV}_3\text{Sb}_5 \rangle$ Physical Review X, 2021, 11, .	2.8	176
239	Oxygen Adsorption Induced Superconductivity in Ultrathin FeTe Film on SrTiO <sub>3</sub> (001). Materials, 2021, 14, 4584.	1.3	4
240	Coexistence of Superconductivity and Nontrivial Band Topology in Monolayered Cobalt Pnictides on SrTiO <sub>3</sub> . Nano Letters, 2021, 21, 7396-7404.	4.5	3
241	Excess-iron driven spin glass phase in Fe <sub>1-y</sub> Te <sub>1-x</sub> Se <sub>x</sub> . Chinese Physics B, 2021, 30, 087402.	0.7	1
242	Prediction of double-Weyl points in the iron-based superconductor $\text{CaK}_4\text{FeAs}_2$ Physical Review B, 2021, 104, .	1.1	5
243	Surface orbital order and chemical potential inhomogeneity of the iron-based superconductor FeTe <sub>0.55</sub> Se <sub>0.45</sub> investigated with special STM tips. Physical Review Research, 2021, 3, .	1.3	3
244	Phase transition-induced superstructures of $\hat{\Gamma}^2$ -Sn films with atomic-scale thickness*. Chinese Physics B, 2021, 30, 096804.	0.7	0
245	In the Pursuit of Majorana Modes in Iron-Based High-Tc Superconductors. , 2021, , 35-60.		1
246	Experimental review on Majorana zero-modes in hybrid nanowires. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	6
247	Identifying Majorana bound states by tunneling shot-noise tomography. Physical Review B, 2021, 104, .	1.1	14
248	Anisotropic non-split zero-energy vortex bound states in a conventional superconductor. Applied Physics Reviews, 2021, 8, .	5.5	12
249	Cascade of correlated electron states in the kagome superconductor CsV <sub>3</sub> Sb <sub>5</sub> . Nature, 2021, 599, 216-221.	13.7	251
250	Topological crystalline superconductivity in locally noncentrosymmetric $\text{CeRh}_2\text{Sb}_2$ Physical Review Research, 2021, 3, .	1.3	28
251	Higher-order topological superconductors based on weak topological insulators. Physical Review B, 2021, 104, .	1.1	19
252	Topological phase transitions and Majorana zero modes in DNA double helix coupled to s-wave superconductors. New Journal of Physics, 2021, 23, 093047.	1.2	4
253	Reconstructed conventional bulk-boundary correspondence in the non-Hermitian $s$ -wave nodal-ring superconductor. Physical Review B, 2021, 104, .	1.1	0

#	ARTICLE	IF	CITATIONS
254	Flux growth, mixed valence state and superconductivity of Sn4Sb3 intermetallic crystals. Intermetallics, 2021, 137, 107301.	1.8	2
255	Andreev reflection properties of Majorana doublets modulated by ferromagnetic leads. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 134, 114848.	1.3	0
256	Creating Majorana modes from segmented Fermi surface. Nature Communications, 2021, 12, 577.	5.8	13
257	Evidence of Weyl fermions in $\text{TaTe}_5$ . Physical Review B, 2021, 103, .		
258	2D hybrid $\text{CrCl}_2(\text{N}_2\text{C}_4\text{H}_4)_2$ with tunable ferromagnetic half-metallicity. Journal of Materials Chemistry C, 2021, 9, 5985-5991.	2.7	1
259	Two-Dimensional 2M-WS <sub>2</sub> Nanolayers for Superconductivity. ACS Omega, 2021, 6, 2966-2972.	1.6	9
260	Tip-induced superconductivity commonly existing in the family of transition-metal dipnictides $\text{MPn}_2$ . Chinese Physics B, 2021, 30, 017304.	0.7	2
261	The quest and hope of Majorana zero modes in topological superconductor for fault-tolerant quantum computing: An introductory overview. AIP Conference Proceedings, 2021, .	0.3	4
262	Phase Diagram and Edge States of Surface States of Topological Superconductors. World Journal of Condensed Matter Physics, 2021, 11, 65-76.	1.1	0
263	Topological superconductivity in skyrmion lattices. Npj Quantum Materials, 2021, 6, .	1.8	37
264	Anisotropic Full-Gap Superconductivity in 2M-WS <sub>2</sub> Topological Metal with Intrinsic Proximity Effect. Nano Letters, 2021, 21, 709-715.	4.5	12
265	Bound fermion states in pinned vortices in the surface states of a superconducting topological insulator. Journal of Physics Condensed Matter, 2021, 33, 035604.	0.7	3
266	Ion irradiation of iron chalcogenide superconducting films. Superconductor Science and Technology, 2020, 33, 094008.	1.8	3
267	Multiple reversals of vortex ratchet effects in a superconducting strip with inclined dynamic pinning landscape*. Chinese Physics B, 2020, 29, 127401.	0.7	4
268	Pinning of Andreev bound states to zero energy in two-dimensional superconductor- semiconductor Rashba heterostructures. Physical Review B, 2020, 102, .	1.1	15
269	Bulk superconductivity in $\text{FeTe}_{1-x}\text{Se}_x$ via physicochemical pumping of excess iron. Physical Review Materials, 2019, 3, .		
270	Detection of second-order topological superconductors by Josephson junctions. Physical Review Research, 2020, 2, .	1.3	39
271	Bandgap-assisted quantum control of topological edge states in a cavity. Physical Review Research, 2020, 2, .	1.3	15



#	ARTICLE	IF	CITATIONS
272	Diagnosing quantum chaos in many-body systems using entanglement as a resource. Physical Review Research, 2020, 2, .	1.3	30
273	Observation of a gel of quantum vortices in a superconductor at very low magnetic fields. Physical Review Research, 2020, 2, .	1.3	15
274	Pairing symmetry and topological surface state in iron-chalcogenide superconductors. Physical Review Research, 2020, 2, .	1.3	17
275	Multi-particle interferometry in the time-energy domain with localized topological quasiparticles. Physical Review Research, 2020, 2, .	1.3	4
276	Vortex Majorana braiding in a finite time. Physical Review Research, 2020, 2, .	1.3	14
277	Time-reversal-invariant $C_2$ -symmetric higher-order topological superconductors. Physical Review Research, 2020, 2, .	1.3	17
278	Finite temperature effects on Majorana bound states in chiral $p$ -wave superconductors. SciPost Physics, 2019, 6, .	1.5	6
279	Studies of scanning tunneling spectroscopy on iron-based superconductors. Wuli Xuebao/Acta Physica Sinica, 2018, 67, 207401.	0.2	3
280	Minimal setup for non-Abelian braiding of Majorana zero modes. Science China: Physics, Mechanics and Astronomy, 2021, 64, .	2.0	11
281	Thickness-induced crossover from strong to weak collective pinning in exfoliated $FeTe_{1-x}W_x$ thin films at 1 T. Physical Review B, 2021, 104, .	1.3	17
282	Fermi Arc Criterion for Surface Majorana Modes in Superconducting Time-Reversal Symmetric Weyl Semimetals. Physical Review Letters, 2021, 127, 187002.	2.9	10
283	Helical liquids in semiconductors. Semiconductor Science and Technology, 2021, 36, 123003.	1.0	19
284	Coupled electronic and magnetic relaxation in $Fe_{1+y}Te$ : direct evidence for the interaction between itinerant carriers and local moments. Journal of Physics Condensed Matter, 2022, 34, 025601.	0.7	0
285	Vortex images influenced by superconducting gap and Fermi surface. Physica C: Superconductivity and Its Applications, 2021, 591, 1353963.	0.6	3
286	Search for Majorana zero mode in the magnetic vortex of artificial topological superconductor. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 137401.	0.2	3
287	Superconductivity in $Sn_{1-x}In_xTe$ thin films grown by molecular beam epitaxy. Physical Review Materials, 2019, 3, .	0.9	4
288	Identify the Nematic Superconductivity of Topological Superconductor $Pd_{1-x}Bi_xTe_{2-3x}$ by Angle-dependent Upper Critical Field Measurement. Journal of Superconductivity and Novel Magnetism, 2021, 34, 3045-3052.	0.8	3
289	Topological superconductivity in $EuS/Au$ superconductor heterostructures. Physical Review Research, 2021, 3, .	1.3	7

#	ARTICLE	IF	CITATIONS
290	Multicriticality of two-dimensional class-D disordered topological superconductors. Physical Review B, 2021, 104, .	1.1	8
291	Theory of topological superconductivity based on Yu-Shiba-Rusinov states. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 117401.	0.2	1
292	Non-abelian statistics of Majorana modes and the applications to topological quantum computation. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 110302.	0.2	4
293	Double Braiding Majoranas for Quantum Computing and Hamiltonian Engineering. PRX Quantum, 2020, 1, .	3.5	10
294	Majorana-modified electron transport through one quantum-dot system with ferromagnetic leads. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 421, 127773.	0.9	0
295	Superconductivity in topological materials. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 020301.	0.2	1
296	Emergent vortex Majorana zero mode in iron-based superconductors. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 110301.	0.2	17
297	Signatures of bosonic Landau levels in a finite-momentum superconductor. Nature, 2021, 599, 51-56.	13.7	5
298	Trapping Majorana zero modes in vortices of magnetic texture crystals coupled to nodal superconductors. Physical Review B, 2021, 104, .	1.1	6
299	Theoretical investigation of the scanning tunneling microscopy of Majorana bound states in topological superconductor vortices. Journal of Physics Condensed Matter, 2021, 33, 025301.	0.7	1
300	Molecular beam epitaxy of superconducting $\text{Sn}_{1-x}\text{Mn}_x$ thin films. Physical Review Materials, 2020, 4, .	0.9	1
301	Phonon-assisted Andreev reflection driven by a Majorana zero mode. Physica Scripta, 2021, 96, 015805.	1.2	2
302	Renormalization group analysis of Dirac fermions with a random mass. Physical Review B, 2021, 104, .	1.1	2
303	Majorana Zero Modes in Ferromagnetic Wires without Spin-Orbit Coupling. Condensed Matter, 2021, 6, 44.	0.8	1
304	Electrically controllable zero-energy states in Rashba oxide heterostructure with in-plane magnetic field cooling. Applied Physics Letters, 2021, 119, 192601.	1.5	0
305	Anomalous Superconducting Proximity Effect in $\text{Bi}_2\text{Se}_3/\text{FeSe}_{0.5}\text{Te}_{0.5}$ Thin-Film Heterojunctions. Advanced Materials, 2022, 34, e2107799.	11.1	7
306	Distinct properties of vortex bound states driven by temperature. Europhysics Letters, 2021, 136, 46002.	0.7	3
307	Photoemission Spectroscopic Evidence of Multiple Dirac Cones in Superconducting $\text{BaSn}_3$ . Chinese Physics Letters, 2021, 38, 107403.	1.3	3

#	ARTICLE	IF	CITATIONS
308	Chiral Majorana edge modes and vortex Majorana zero modes in superconducting antiferromagnetic topological insulator. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 115503.	0.7	1
309	Photon-Assisted Average Current Through a Quantum Dot Coupled to Majorana Bound States. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2021, 16, 1325-1331.	0.1	2
310	Double resonant tunneling due to the nonlocal coupling of Majorana bound states to the quantum dot system. <i>European Physical Journal Plus</i> , 2022, 137, 1.	1.2	1
311	Iron pnictides and chalcogenides: a new paradigm for superconductivity. <i>Nature</i> , 2022, 601, 35-44.	13.7	98
312	Unveiling non-Abelian statistics of vortex Majorana bound states in iron-based superconductors using fermionic modes. <i>Physical Review B</i> , 2022, 105, .	1.1	2
313	Unitary symmetry-protected non-Abelian statistics of Majorana modes. <i>Physical Review B</i> , 2022, 105, .	1.1	5
314	Phase-Manipulation-Induced Majorana Mode and Braiding Realization in Iron-Based Superconductor Fe(Te,Se). <i>Physical Review Letters</i> , 2022, 128, 016402.	2.9	13
315	Correlation-driven electronic reconstruction in FeTe <sub>1-x</sub> Se <sub>x</sub> . <i>Communications Physics</i> , 2022, 5, .	2.0	17
316	Charge-Density-Wave-Induced Peak-Dip-Hump Structure and the Multiband Superconductivity in a Kagome Superconductor $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{CsV} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle 3$ . <i>Physical Review Letters</i> , 2022, 128, 036402.	2.9	51
317	Surface Bogoliubov-Dirac cones and helical Majorana hinge modes in superconducting Dirac semimetals. <i>Physical Review B</i> , 2022, 105, .	1.1	12
318	Signatures of nontopological patches on the surface of topological insulators. <i>Physical Review B</i> , 2022, 105, .	1.1	2
319	Bath-induced decoherence in finite-size Majorana wires at non-zero temperature. <i>New Journal of Physics</i> , 2022, 24, 013033.	1.2	3
320	Low-noise large-bandwidth transimpedance amplifier for measuring scanning tunneling shot noise spectra in cryogenic STM and its applications. <i>Ultramicroscopy</i> , 2022, 234, 113466.	0.8	4
321	Non-Abelian statistics of Majorana zero modes in the presence of an Andreev bound state. <i>Physical Review B</i> , 2022, 105, .	1.1	7
322	Violation of the Wiedemann-Franz law in the topological Kondo model. <i>Physical Review B</i> , 2022, 105, .	1.1	13
323	Search for Majorana Quasiparticles in Topological Superconductors Using Scanning Tunneling Microscope. <i>Vacuum and Surface Science</i> , 2022, 65, 53-58.	0.0	0
324	Multigap topology and non-Abelian braiding of phonons from first principles. <i>Physical Review B</i> , 2022, 105, .	1.1	16
325	Superconductivity near the saddle point in the two-dimensional Rashba system Si(111) $\hat{\sim}$ 3Å–3Å(Tl,Pb). <i>Physical Review B</i> , 2022, 105, .	1.1	1

#	ARTICLE	IF	CITATIONS
326	Experimental Investigations of Majorana Modes and Majorana-Bound States (MBS). , 2022, , 27-83.		0
327	Universal Conductance Scaling of Andreev Reflections Using a Dissipative Probe. Physical Review Letters, 2022, 128, 076802.	2.9	14
328	Topological Superconductivity in an Extended $s$ -Wave Superconductor and Its Implication to Iron-Based Superconductors. Physical Review X, 2022, 12, .	2.8	17
329	Mixed-state Hall scaling behavior and vortex phase diagram in $\text{FeSe}_{1-x}\text{Te}_x$ thin films. Physical Review B, 2022, 105, .		
330	Non-Abelian braiding on photonic chips. Nature Photonics, 2022, 16, 390-395.	15.6	58
331	Topological superconductivity induced by magnetic texture crystals. Physical Review Research, 2022, 4, .	1.3	13
332	High-Temperature Majorana Zero Modes. Physical Review Letters, 2022, 128, 137002.	2.9	25
333	In-gap states of vortices at the surface of a topological insulator. Physica C: Superconductivity and Its Applications, 2022, 596, 1354047.	0.6	0
334	Topological states in the noncentrosymmetric superconductors LaPtSi and LaPtGe. Physical Review B, 2021, 104, .	1.1	2
335	Topological surface states in superconducting $\text{CaBi}_2$ . Physical Review B, 2021, 104, .		
336	First-principles study of the electronic structure of $\text{CaKRu}_4\text{P}_4$ . Physical Review B, 2021, 104, .	1.1	1
337	Spin-triplet superconductivity in $\text{K}_2\text{Cr}_3\text{As}_3$ . Science Advances, 2021, 7, eabl4432.	4.7	34
338	Quantum transport through a quantum dot side-coupled to a Majorana bound state pair in the presence of electron-phonon interaction. Physical Review B, 2022, 105, .	1.1	5
339	Role of Majorana fermions in high-harmonic generation from Kitaev chain. Scientific Reports, 2022, 12, 6722.	1.6	11
340	Theory of topological superconductivity in doped IV-VI semiconductors. Physical Review B, 2022, 105, .	1.1	0
341	Magnetic Weyl Semimetal in $\text{K}_2\text{Cr}_3\text{As}_3$ .		

#	ARTICLE	IF	CITATIONS
344	Bulk superconductivity in one-step grown Fe(Te,Se) crystals free of interstitial iron by minor Mn doping. <i>Science China Materials</i> , 2022, 65, 2472-2478.	3.5	1
345	Detecting and braiding higher-order Majorana corner states through their spin degree of freedom. <i>Physical Review B</i> , 2022, 105, .	1.1	9
346	Coexistence of pressure-induced superconductivity and topological surface states in elementary substance Sb. <i>Physical Review Materials</i> , 2022, 6, .	0.9	1
347	Research progress of material, physics, and device of topological superconductors for quantum computing. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022, 71, 160302.	0.2	1
348	Controllable Majorana vortex states in iron-based superconducting nanowires. <i>National Science Review</i> , 2022, 9, .	4.6	2
349	Coexistence of Robust Edge States and Superconductivity in Few-Layer Stanene. <i>Physical Review Letters</i> , 2022, 128, .	2.9	11
350	Dirac nodal lines in the quasi-one-dimensional ternary telluride $\text{TaPtTe}_5$ . <i>Physical Review B</i> , 2022, 105, .		
351	Non-Abelian operation through scattering between chiral Dirac edge modes. <i>Physical Review B</i> , 2022, 105, .	1.1	1
352	Zero-bias conductance modification in the quantum-dot system with side-coupled Majorana bound states. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, .	1.1	1
353	Exploring Majorana zero modes in iron-based superconductors. <i>Chinese Physics B</i> , 2022, 31, 080301.	0.7	5
354	Majorana zero modes in iron-based superconductors. <i>Matter</i> , 2022, 5, 1734-1759.	5.0	7
355	Majorana zero mode in the nanowire induced by the gradually changed magnetic field. <i>European Physical Journal Plus</i> , 2022, 137, .	1.2	0
356	Signatures of Majorana bound states and parity effects in two-dimensional chiral $p$ -wave Josephson junctions. <i>Physical Review B</i> , 2022, 105, .	1.1	2
357	Epitaxial growth of one-monolayer $\text{Pb}_{1-x}\text{Bi}_x$ alloy films. <i>Physica Status Solidi (B): Basic Research</i> , 0, , .	0.7	2
358	Evidence for unconventional superconductivity in twisted trilayer graphene. <i>Nature</i> , 2022, 606, 494-500.	13.7	64
359	Nontrivial Topological States in $\text{BaSn}_5$ Superconductor Probed by de Haas-van Alphen Quantum Oscillations. <i>Chinese Physics Letters</i> , 2022, 39, 067101.	1.3	1
360	Recent Developments in Chemical Vapor Deposition of 2D Magnetic Transition Metal Chalcogenides. <i>ACS Applied Electronic Materials</i> , 2022, 4, 3303-3324.	2.0	4
361	Superconductivity in monolayer FeSe enhanced by quantum geometry. <i>Physical Review Research</i> , 2022, 4, .	1.3	11

#	ARTICLE	IF	CITATIONS
362	Composition and phase engineering of metal chalcogenides and phosphorous chalcogenides. Nature Materials, 2023, 22, 450-458.	13.3	62
363	Phase diagrams on composition-spread FeTe <sub>1-x</sub> Se <sub>x</sub> films. Science Bulletin, 2022, 67, 1443-1449.	4.3	6
364	Shot noise and differential conductance as signatures of putative topological superconductivity in FeSe <sub>0.45</sub> Te <sub>0.55</sub> . Physical Review B, 2022, 105, .		
365	Yu-Shiba-Rusinov States in a Superconductor with Topological Z <sub>2</sub> Bands. Physical Review Letters, 2022, 128, .	2.9	2
366	Phase- and composition-controlled synthesis. Nature Materials, 0, , .	13.3	1
367	Ordered and tunable Majorana-zero-mode lattice in naturally strained LiFeAs. Nature, 2022, 606, 890-895.	13.7	37
368	Dual topological states in the layered titanium-based oxypnictide superconductor BaTi <sub>2</sub> Sb <sub>2</sub> O. Npj Quantum Materials, 2022, 7, .	1.8	3
369	Unique Signatures of Topological Phases in Two-Dimensional THz Spectroscopy. Physical Review Letters, 2022, 129, .	2.9	4
370	Angle-resolved photoemission spectroscopy. Nature Reviews Methods Primers, 2022, 2, .	11.8	29
371	Superconductivity and Unconventional Density Waves in Vanadium-based Kagome Materials AV <sub>3</sub> Sb <sub>5</sub> . Chinese Physics B, 0, , .	0.7	10
372	Identifying Majorana vortex modes via nonlocal transport. Physical Review B, 2022, 106, .	1.1	5
373	Transport through the T-shaped double-quantum-dot structure with side-coupled Majorana bound states. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 143, 115397.	1.3	2
374	2D gapless topological superfluids generated by pairing phases. Journal of Physics Condensed Matter, 0, , .	0.7	0
375	Planar magnetic texture on the surface of a topological insulator. Physical Review B, 2022, 106, .	1.1	2
376	Topological surface superconductivity in FeSe <sub>0.45</sub> Te <sub>0.55</sub> . Communications Physics, 2022, 5, .	2.0	6
377	Time-reversal invariant topological gapped phases in bilayer Dirac materials. Physical Review B, 2022, 106, .	1.1	1
378	Disorder-independent topological superconductor realized by antiferromagnetic Rashba nanowires with superconducting proximity effect. European Physical Journal Plus, 2022, 137, .	1.2	0
379	Stronger quantum fluctuation with larger spins: Emergent magnetism in the pressurized high-temperature superconductor FeSe. Physical Review Research, 2022, 4, .	1.3	2

#	ARTICLE	IF	CITATIONS
380	Probing electron-hole weights of an Andreev bound state by transient currents. <i>Physical Review B</i> , 2022, 106, .	1.1	5
381	Non-Hermiticity-stabilized Majorana zero modes in semiconductor-superconductor nanowires. <i>Physical Review B</i> , 2022, 106, .	1.1	4
382	Converting a Monolayered NbSe <sub>2</sub> into an Ising Superconductor with Nontrivial Band Topology via Physical or Chemical Pressuring. <i>Nano Letters</i> , 2022, 22, 6767-6774.	4.5	2
383	Nonlocality of Majorana bound states modulated by an embedded quantum dot. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2023, 145, 115475.	1.3	2
384	Kagome superconductors AV <sub>3</sub> Sb <sub>5</sub> (A = K, Rb, Cs). <i>National Science Review</i> , 2023, 10, .	4.6	62
385	Superconducting Fourfold Fe(Te,Se) Film on Sixfold Magnetic MnTe via Hybrid Symmetry Epitaxy. <i>Nano Letters</i> , 2022, 22, 7522-7526.	4.5	3
386	Correlation-corrected band topology and topological surface states in iron-based superconductors. <i>Physical Review B</i> , 2022, 106, .	1.1	7
387	Inverse proximity effect in a topological-insulator–superconductor hybrid system. <i>Physical Review B</i> , 2022, 106, .	1.1	0
388	Vortex bound states influenced by the Fermi surface anisotropy. <i>Chinese Physics B</i> , 2023, 32, 037403.	0.7	3
389	Fully-gapped superconductivity in single crystalline NbC and TaC probed by point-contact spectroscopy. <i>Superconductor Science and Technology</i> , 0, , .	1.8	0
390	Titanium doped kagome superconductor CsV <sub>3</sub> Ti Sb <sub>5</sub> and two distinct phases. <i>Science Bulletin</i> , 2022, 67, 2176-2185.	4.3	32
391	Observation of unconventional proximity induced superconducting effects in Bi <sub>2</sub> Se <sub>3</sub> flakes. <i>Physica Scripta</i> , 2022, 97, 115812.	1.2	2
392	Absence of hexagonal-to-square lattice transition in LiFeAs vortex matter. <i>Physical Review B</i> , 2022, 106, .	1.1	0
393	Two-stage decoupling effect in electron transport through T-shaped quantum dots coupled via Majorana bound states. <i>Annals of Physics</i> , 2022, 447, 169143.	1.0	1
394	Possible Kondo scattering and its signature in Seebeck coefficient in topological superconductor Fe <sub>1</sub> Te <sub>0.55</sub> Se <sub>0.45</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 564, 170126.	1.0	1
395	Quantum geometric effect on Fulde-Ferrell-Larkin-Ovchinnikov superconductivity. <i>Physical Review B</i> , 2022, 106, .	1.1	4
396	STM study on the vortex states and Majorana zero-modes in FeSe-based high-T <sub>c</sub> superconductors. , 2022, 1, .		1
397	Superconductor/Ferromagnet Heterostructures: A Platform for Superconducting Spintronics and Quantum Computation. <i>Advanced Quantum Technologies</i> , 2023, 6, .	1.8	12

#	ARTICLE	IF	CITATIONS
398	Anomalous universal conductance as a hallmark of non-locality in a Majorana-hosted superconducting island. Nature Communications, 2022, 13, .	5.8	0
399	Anomalous Shiba states in topological iron-based superconductors. Physical Review B, 2022, 106, .	1.1	4
400	Ferromagnetic impurity induced Majorana zero mode in iron-based superconductors. Physical Review B, 2022, 106, .	1.1	2
401	Exactly solving the Kitaev chain and generating Majorana-zero-modes out of noisy qubits. Scientific Reports, 2022, 12, .	1.6	4
402	Two-dimensional paired topological superfluids of Rydberg Fermi gases. Physical Review B, 2022, 106, .	1.1	1
403	Topological properties and strain effects of binary monoclinic superconductors RhX <sub>2</sub> (X=Sb,Bi). Physica B: Condensed Matter, 2023, 650, 414569.	1.3	2
404	Evidence for a robust sign-changing s-wave order parameter in monolayer films of superconducting Fe (Se,Te)/Bi <sub>2</sub> Te <sub>3</sub> . Npj Quantum Materials, 2022, 7, .	1.8	1
405	Emerging Edge States in the Monolayer FeSe Superconductor with the Spin-orbital Coupling. JETP Letters, 0, , .	0.4	0
406	Enhanced Topological Superconductivity in an Asymmetrical Planar Josephson Junction. Chinese Physics B, 0, , .	0.7	0
407	Topological superconductivity and large spin Hall effect in the kagome family Ti <sub>6</sub> X <sub>4</sub> (X= Bi, Sb, Pb, Tl). Tj ETQq1 1 0,784314,rgBT /Over	1.9	6
408	Anomalous superconducting proximity effect of planar Pb/RhPb <sub>2</sub> heterojunctions in the clean limit. Npj Quantum Materials, 2022, 7, .	1.8	1
409	Majorana zero modes in a magnetic and superconducting hybrid vortex. Physical Review B, 2022, 106, .	1.1	3
410	Effects of aging processes at the surface of the superconductor $\hat{\rho}^2$ FeSe. Physical Review B, 2022, 106, .		
411	Sublattice-sensitive Majorana modes. Physical Review B, 2022, 106, .	1.1	5
412	Tunable vortex Majorana modes controlled by strain in homogeneous LiFeAs. , 2022, 1, .		7
413	Fe <sub>1+y</sub> Te <sub>x</sub> Se <sub>1-x</sub> : A Delicate and Tunable Majorana Material. Chinese Physics Letters, 2023, 40, 017401.	1.3	0
414	Charge and Spin Transports Through a Normal Lead Coupled to an s-Wave Superconductor and Majorana Fermions. Physica Status Solidi (B): Basic Research, 2023, 260, .	0.7	1
415	Ultrafast Melting of Superconductivity in an Iron-Based Superconductor. Physical Review X, 2023, 13, .	2.8	1



#	ARTICLE	IF	CITATIONS
416	Topological phases and tunable Majorana zero modes in Rashba superconducting systems in the presence of Zeeman field. <i>Physics Letters A</i> , 2023, 468, .	0.7	0
417	Competing Vortex Topologies in Iron-Based Superconductors. <i>Physical Review Letters</i> , 2022, 129, .	2.9	9
418	Berezinskiiâ€“Kosterlitzâ€“Thouless Transition in the Type-I Weyl Semimetal PtBi <sub>2</sub> . <i>Nano Letters</i> , 2023, 23, 1229-1235.	4.5	4
419	Revealing the Origin of Time-Reversal Symmetry Breaking in Fe-Chalcogenide Superconductor $\text{FeTe}_{1-x}\text{S}_x$ . <i>Physical Review Letters</i> , 2023, 130, .	2.9	5
420	Observation of spin-polarized surface states in the nodal-line semimetal $\text{SnTaS}_2$ . <i>Physical Review B</i> , 2023, 107, .	1.1	2
421	Colloquium : Quantum anomalous Hall effect. <i>Reviews of Modern Physics</i> , 2023, 95, .	16.4	88
422	Two-dimensional superconductors with intrinsic p-wave pairing or nontrivial band topology. <i>Science China: Physics, Mechanics and Astronomy</i> , 2023, 66, .	2.0	9
424	Topological superconducting vortex from trivial electronic bands. <i>Nature Communications</i> , 2023, 14, .	5.8	2
425	Out-of-equilibrium Majorana zero modes in interacting Kitaev chains. <i>Physical Review B</i> , 2023, 107, .	1.1	2
426	CrO <sub>x</sub> N <sub>y</sub> Thin Film Temperature Sensors for High-Precision Cryogenic Measurement in Strong Magnetic Field. <i>IEEE Electron Device Letters</i> , 2023, 44, 658-661.	2.2	0
427	Topological Nodal Surface and Quadratic Dirac Semimetal States and van Hove Singularities in $\text{ScHf}_3$ and $\text{LuHf}_3$ Superconductors. <i>ACS Omega</i> , 2023, 8, 9607-9613.	1.6	4
428	Exciton condensation in strongly correlated quantum spin Hall insulators. <i>Physical Review B</i> , 2023, 107, .	1.1	5
429	Rashba spin-orbit coupling in the square-lattice Hubbard model: A truncated-unity functional renormalization group study. <i>Physical Review B</i> , 2023, 107, .	1.1	4
430	Topological states and competing magnetic fluctuations in iron germanides. <i>Physical Review B</i> , 2023, 107, .	1.1	0
431	Statistical Majorana Bound State Spectroscopy. <i>Physical Review Letters</i> , 2023, 130, .	2.9	3
432	Non-Abelian topological superconductivity in maximally twisted double-layer spin-triplet valley-singlet superconductors. <i>Communications Physics</i> , 2023, 6, .	2.0	2
433	Monolayer Superconductivity and Tunable Topological Electronic Structure at the $\text{Fe}(\text{Te},\text{Se})_2/\text{Te}_3$ Interface. <i>Advanced Materials</i> , 2023, 35, .	11.1	1
434	Single-atom vibrational spectroscopy with chemical-bonding sensitivity. <i>Nature Materials</i> , 2023, 22, 612-618.	13.3	10

#	ARTICLE	IF	CITATIONS
435	Majorana modes of giant vortices. <i>Physical Review B</i> , 2023, 107, .	1.1	2
436	Direct Observation of Quantum Anomalous Vortex in Fe(Se,Te). <i>Physical Review X</i> , 2023, 13, .	2.8	3
437	Josephson junction scheme for observing the non-Abelian statistical properties of Majorana fermions. <i>Physical Review B</i> , 2023, 107, .	1.1	0
438	<i>In situ</i> electrical and thermal transport properties of $\text{Fe}_{1-x}\text{Te}_x$ films with ionic liquid gating. <i>Physical Review B</i> , 2023, 107, .		
439	Tuning Multiple Landau Quantization in Transition-Metal Dichalcogenide with Strain. <i>Nano Letters</i> , 0, , .	4.5	1
440	Enhancement of the Kondo effect in a quantum dot formed in a full-shell nanowire. <i>Physical Review B</i> , 2023, 107, .	1.1	3
441	Non-volatile electric control of magnetic and topological properties of $\text{MnBi}_2\text{Te}_4$ thin films <sup>*</sup> . <i>2D Materials</i> , 2023, 10, 035008.	2.0	2
442	Recent progress on Majorana in semiconductor-superconductor heterostructures—engineering and detection. <i>Science China: Physics, Mechanics and Astronomy</i> , 2023, 66, .	2.0	11
443	Superconductor Vortex Spectrum Including Fermi Arc States in Time-Reversal Symmetric Weyl Semimetals. <i>Physical Review Letters</i> , 2023, 130, .	2.9	0
444	Enigma of the vortex state in a strongly correlated $d$ -wave superconductor. <i>Physical Review B</i> , 2023, 107, .	1.1	1
450	Recent progress on non-Abelian anyons: from Majorana zero modes to topological Dirac fermionic modes. <i>Science China: Physics, Mechanics and Astronomy</i> , 2023, 66, .	2.0	1
451	Roadmap of the iron-based superconductor Majorana platform. <i>Science China: Physics, Mechanics and Astronomy</i> , 2023, 66, .	2.0	2
464	Nanoscale Manipulation of Wrinkle-Pinned Vortices in Iron-Based Superconductors. <i>Nano Letters</i> , 2023, 23, 4541-4547.	4.5	1
466	Hunting for Majoranas. <i>Science</i> , 2023, 380, .	6.0	10
469	Topological phenomena at defects in acoustic, photonic and solid-state lattices. <i>Nature Reviews Physics</i> , 2023, 5, 483-495.	11.9	16
508	The search for neutrinoless double-beta decay. <i>Rivista Del Nuovo Cimento</i> , 0, , .	2.0	0
513	The Roadmap of 2D Materials and Devices Toward Chips. <i>Nano-Micro Letters</i> , 2024, 16, .	14.4	0