

# Jing Wang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4633632/publications.pdf>

Version: 2024-02-01

64  
papers

8,207  
citations

117625  
34  
h-index

106344  
65  
g-index

66  
all docs

66  
docs citations

66  
times ranked

7920  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gate-tunable room-temperature ferromagnetism in two-dimensional Fe <sub>3</sub> GeTe <sub>2</sub> . <i>Nature</i> , 2018, 563, 94-99.	27.8	1,646
2	Large-Gap Quantum Spin Hall Insulators in Tin Films. <i>Physical Review Letters</i> , 2013, 111, 136804.	7.8	1,140
3	Quantum anomalous Hall effect in intrinsic magnetic topological insulator MnBi <sub>2</sub> Te <sub>4</sub> . <i>Science</i> , 2020, 367, 895-900.	12.6	909
4	Topological Axion States in the Magnetic Insulator $\text{MnBi}_{2}\text{Te}_{4}$ with the Quantized Magnetoelectric Effect. <i>Physical Review Letters</i> , 2019, 122, 206401.	7.8	554
5	Dynamical axion field in topological magnetic insulators. <i>Nature Physics</i> , 2010, 6, 284-288.	16.7	403
6	Landau Quantization of Topological Surface States in $\text{MnBi}_{2}\text{Te}_{4}$ . <i>Physical Review Letters</i> , 2010, 105, 076801.	7.8	352
7	Topological insulators for high-performance terahertz to infrared applications. <i>Physical Review B</i> , 2010, 82, .	3.2	185
8	Quantized topological magnetoelectric effect of the zero-plateau quantum anomalous Hall state. <i>Physical Review B</i> , 2015, 92, .	3.2	152
9	Chiral topological superconductor and half-integer conductance plateau from quantum anomalous Hall plateau transition. <i>Physical Review B</i> , 2015, 92, .	3.2	146
10	Quantum Anomalous Hall Effect with Higher Plateaus. <i>Physical Review Letters</i> , 2013, 111, 136801.	7.8	137
11	Metal-to-insulator switching in quantum anomalous Hall states. <i>Nature Communications</i> , 2015, 6, 8474.	12.8	136
12	Topological states of condensed matter. <i>Nature Materials</i> , 2017, 16, 1062-1067.	27.5	135
13	Two-dimensional time-reversal-invariant topological superconductivity in a doped quantum spin-Hall insulator. <i>Physical Review B</i> , 2014, 90, .	3.2	126
14	Universal scaling of the quantum anomalous Hall plateau transition. <i>Physical Review B</i> , 2014, 89, .	3.2	109
15	Observation of the Zero Hall Plateau in a Quantum Anomalous Hall Insulator. <i>Physical Review Letters</i> , 2015, 115, 126801.	7.8	101
16	Unexpected edge conduction in mercury telluride quantum wells under broken time-reversal symmetry. <i>Nature Communications</i> , 2015, 6, 7252.	12.8	101
17	Actinide Topological Insulator Materials with Strong Interaction. <i>Science</i> , 2012, 335, 1464-1466.	12.6	85
18	Quantum anomalous Hall effect in magnetic topological insulators. <i>Physica Scripta</i> , 2015, T164, 014003.	2.5	85

#	ARTICLE	IF	CITATIONS
19	Topological<math>\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="block">\rangle \langle \text{mml:mi} \text{ p} \langle / \text{mml:mi} \rangle \langle / \text{mml:math} \rangle \langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="block">\rangle \langle \text{mml:mi} \text{ n} \langle / \text{mml:mi} \rangle \langle / \text{mml:math} \rangle \text{junction. Physical Review B, 2012, 85, .}	3.2	79
20	Anomalous Edge Transport in the Quantum Anomalous Hall State. Physical Review Letters, 2013, 111, 086803.	7.8	78
21	Topological States in Ferromagnetic CdO/EuO Superlattices and Quantum Wells. Physical Review Letters, 2014, 112, 096804.	7.8	70
22	Power-law decay of standing waves on the surface of topological insulators. Physical Review B, 2011, 84, .	3.2	69
23	Thickness Dependence of the Quantum Anomalous Hall Effect in Magnetic Topological Insulator Films. Advanced Materials, 2016, 28, 6386-6390.	21.0	63
24	Electrically Tunable Magnetism in Magnetic Topological Insulators. Physical Review Letters, 2015, 115, 036805.	7.8	62
25	Quantum Anomalous Hall Effect in Magnetic Insulator Heterostructure. Nano Letters, 2015, 15, 2019-2023.	9.1	50
26	Flat Chern Band from Twisted Bilayer<math>\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="block">\rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \text{ MnBi} \langle / \text{mml:mi} \rangle \langle / \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \text{ 2} \langle / \text{mml:mn} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:math} \rangle \text{ Physical Review Letters, 2020, 124, 126402.}	11.8	48
27	Quantum Spin Hall and Quantum Anomalous Hall States Realized in Junction Quantum Wells. Physical Review Letters, 2014, 112, .	7.8	46
28	Second-Order Nonlinear Optical Effects of Spin Currents. Physical Review Letters, 2010, 104, 256601.	7.8	44
29	Topological Magnetic Insulators with Corundum Structure. Physical Review Letters, 2011, 106, 126403.	7.8	42
30	Large Dynamical Axion Field in Topological Antiferromagnetic Insulator Mn <sub>2</sub> Bi <sub>2</sub> Te <sub>5</sub> . Chinese Physics Letters, 2020, 37, 077304.	3.3	42
31	Dynamical axion field in a magnetic topological insulator superlattice. Physical Review B, 2016, 93, .	3.2	40
32	Quantum phase transition of chiral Majorana fermions in the presence of disorder. Physical Review B, 2018, 97, .	3.2	39
33	Antiferromagnetic Dirac semimetals in two dimensions. Physical Review B, 2017, 95, .	3.2	37
34	Edge-state-induced Andreev oscillation in quantum anomalous Hall insulator-superconductor junctions. Physical Review B, 2016, 93, .	3.2	32
35	Topological superconductivity at the edge of transition-metal dichalcogenides. Physical Review B, 2014, 90, .	3.2	31
36	Dynamical axion state with hidden pseudospin Chern numbers in<math>\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="block">\rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \text{ MnBi} \langle / \text{mml:mi} \rangle \langle \text{mml:mn} \text{ 2} \langle / \text{mml:mn} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:math} \rangle \text{-based heterostructures. Physical Review B, 2020, 101, .}	3.2	31

#	ARTICLE	IF	CITATIONS
37	Antiferromagnetic topological nodal line semimetals. Physical Review B, 2017, 96, .	3.2	29
38	Proposal for Direct Measurement of a Pure Spin Current by a Polarized Light Beam. Physical Review Letters, 2008, 100, 086603.	7.8	28
39	Anisotropic topological magnetoelectric effect in axion insulators. Physical Review B, 2020, 101, .	3.2	26
40	Calculation of divergent photon absorption in ultrathin films of a topological insulator. Physical Review B, 2013, 88, .	3.2	24
41	Electrically tunable topological superconductivity and Majorana fermions in two dimensions. Physical Review B, 2016, 94, .	3.2	22
42	Magnetic quantum phase transition in Cr-doped Bi <sub>2</sub> (Se <sub>x</sub> Te <sub>1-x</sub> ) <sub>3</sub> driven by the Stark effect. Nature Nanotechnology, 2017, 12, 953-957.	31.5	22
43	Intrinsic topological phases in $\text{Mn}_{2-x}\text{Fe}_{x}\text{S}$ tuned by the layer magnetization. Physical Review B, 2020, 102, .		
44	In-plane magnetic-field-induced quantum anomalous Hall plateau transition. Physical Review B, 2019, 100, .	3.2	21
45	Simultaneous Electrical-Field-Effect Modulation of Both Top and Bottom Dirac Surface States of Epitaxial Thin Films of Three-Dimensional Topological Insulators. Nano Letters, 2015, 15, 1090-1094.	9.1	19
46	Interplay of Chiral and Helical States in a Quantum Spin Hall Insulator Lateral Junction. Physical Review Letters, 2017, 119, 226401.	7.8	17
47	Two-dimensional antimony selenide (Sb <sub>2</sub> Se <sub>3</sub> ) nanosheets prepared by hydrothermal method for visible-light photodetectors. Solar Energy, 2022, 233, 213-220.	6.1	13
48	Pressure engineering of colossal magnetoresistance in the ferrimagnetic nodal-line semiconductor $\text{Mn}_{2-x}\text{Fe}_{x}\text{S}$ . Physical Review B, 2022, 106, .		
49	Multiple Chiral Majorana Fermion Modes and Quantum Transport. Physical Review Letters, 2018, 121, 256801.	7.8	10
50	Large Low-Field Magnetoresistance (LFMR) Effect in Free-Standing La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> Films. ACS Applied Materials & Interfaces, 2021, 13, 28442-28450.	8.0	10
51	Resonant magneto-optic Kerr effect in the magnetic topological insulator $\text{Cr}_{1-x}\text{Mn}_x\text{S}$ . Physical Review B, 2015, 92, .		
52	Elastic scattering of surface states on three-dimensional topological insulators. Chinese Physics B, 2013, 22, 067301.	1.4	6
53	Generation of Spin Currents by Magnetic Field in $\text{C}_2\text{H}_2$ - and $\text{C}_6\text{H}_6$ -Broken Materials. Spin, 2019, 09, .	1.3	6
54	Nanopore-Patterned CuSe Drives the Realization of the PbSe-CuSe Lateral Heterostructure. ACS Applied Materials & Interfaces, 2022, 14, 32738-32746.	8.0	6

#	ARTICLE	IF	CITATIONS
55	Magnetic moir�� surface states and flat Chern bands in topological insulators. Physical Review B, 2022, 106, .	3.2	6
56	Controllable Majorana fermions on domain walls of a magnetic topological insulator. Physical Review B, 2018, 98, .	3.2	5
57	Topological bands in two-dimensional orbital-active bipartite lattices. Physical Review B, 2021, 103, .	3.2	4
58	Epitaxial growth and room-temperature ferromagnetism of quasi-2D layered Cr <sub>4</sub> Te <sub>5</sub> thin film. Journal Physics D: Applied Physics, 2022, 55, 165001.	2.8	4
59	Optical effects of spin currents in semiconductors. Physical Review B, 2012, 86, .	3.2	3
60	Distribution of conductances in chiral topological superconductor junctions. Physical Review B, 2019, 99, .	3.2	3
61	Chiral Majorana fermion. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 117302.	0.5	2
62	Direct Optical Detection of a Pure Spin Current in Semiconductor. Journal of Superconductivity and Novel Magnetism, 2010, 23, 53-56.	1.8	1
63	Dynamical magnetoelectric coupling in axion insulator thin films. Physical Review B, 2022, 105, .	3.2	1
64	Coherent spin control by electromagnetic vacuum fluctuations. Physical Review A, 2011, 83, .	2.5	0