Peizhe Tang

List of Publications by Year in descending order

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44 papers	4,167 citations	218677 26 h-index	254184 43 g-index
45 all docs	45 docs citations	45 times ranked	5954 citing authors

#	Article	IF	Citations
1	Large-Gap Quantum Spin Hall Insulators in Tin Films. Physical Review Letters, 2013, 111, 136804.	7.8	1,140
2	Multiple Types of Topological Fermions in Transition Metal Silicides. Physical Review Letters, 2017, 119, 206402.	7.8	298
3	Spatially controlled doping of two-dimensional SnS2 through intercalation for electronics. Nature Nanotechnology, 2018, 13, 294-299.	31.5	269
4	Dirac fermions in an antiferromagnetic semimetal. Nature Physics, 2016, 12, 1100-1104.	16.7	216
5	Topology-Driven Magnetic Quantum Phase Transition in Topological Insulators. Science, 2013, 339, 1582-1586.	12.6	206
6	Topological Superconductivity on the Surface of Fe-Based Superconductors. Physical Review Letters, 2016, 117, 047001.	7.8	198
7	Anomalous thickness dependence of Curie temperature in air-stable two-dimensional ferromagnetic 1T-CrTe2 grown by chemical vapor deposition. Nature Communications, 2021, 12, 809.	12.8	196
8	Electronic structure of silicene on Ag(111): Strong hybridization effects. Physical Review B, 2013, 88, .	3.2	186
9	Stable two-dimensional dumbbell stanene: A quantum spin Hall insulator. Physical Review B, 2014, 90, .	3.2	154
10	Learning atoms for materials discovery. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6411-E6417.	7.1	138
11	Reversible and selective ion intercalation through the top surface of few-layer MoS2. Nature Communications, 2018, 9, 5289.	12.8	119
12	Microscopic theory for the light-induced anomalous Hall effect in graphene. Physical Review B, 2019, 99, .	3.2	117
13	Large-gap quantum spin Hall states in decorated stanene grown on a substrate. Physical Review B, 2015, 92, .	3.2	108
14	Chemical-Potential-Dependent Gap Opening at the Dirac Surface States of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Bi</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> by Aggregated Substitutional Cr Atoms. Physical Review Letters, 2014, 112, 056801.	7.8	102
15	Light-induced emergent phenomena in 2D materials and topological materials. Nature Reviews Physics, 2022, 4, 33-48.	26.6	94
16	Singleâ€Atom Reversible Lithiophilic Sites toward Stable Lithium Anodes. Advanced Energy Materials, 2022, 12, .	19.5	49
17	Weak topological insulators induced by the interlayer coupling: A first-principles study of stacked Bi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>TeI. Physical Review B, 2014, 89, .	3.2	46
18	Manipulation of Magnetic Properties by Oxygen Vacancies in Multiferroic YMnO₃. Advanced Functional Materials, 2016, 26, 3589-3598.	14.9	45

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19	Topological insulators in transition-metal intercalated graphene: The role of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>d</mml:mi></mml:math>electrons in significantly increasing the spin-orbit gap. Physical Review B, 2013, 87, .	3.2	43
20	Visualizing topological edge states of single and double bilayer Bi supported on multibilayer Bi(111) films. Physical Review B, 2018, 98, .	3.2	40
21	Band Engineering of Dirac Surface States in Topological-Insulator-Based van der Waals Heterostructures. Physical Review Letters, 2015, 115, 136801.	7.8	34
22	Light-induced anomalous Hall effect in massless Dirac fermion systems and topological insulators with dissipation. New Journal of Physics, 2019, 21, 093005.	2.9	34
23	Robust Gapless Surface State and Rashba-Splitting Bands upon Surface Deposition of Magnetic Cr on Bi₂Se₃. Nano Letters, 2015, 15, 2031-2036.	9.1	33
24	Gated tuned superconductivity and phonon softening in monolayer and bilayer MoS2. Npj Quantum Materials, 2017, 2, .	5.2	33
25	Design of strain-engineered quantum tunneling devices for topological surface states. Applied Physics Letters, 2012, 100, 131602.	3.3	26
26	Dirac semimetal phase in hexagonal LiZnBi. Physical Review B, 2017, 96, .	3.2	26
27	Magnetic order induces symmetry breaking in the single-crystalline orthorhombic CuMnAs semimetal. Physical Review B, 2017, 96, .	3.2	22
28	Berry curvature engineering by gating two-dimensional antiferromagnets. Physical Review Research, 2020, 2, .	3.6	22
29	Unconventional excitonic states with phonon sidebands in layered silicon diphosphide. Nature Materials, 2022, 21, 773-778.	27.5	20
30	Sulfur immobilization and lithium storage on defective graphene: A first-principles study. Applied Physics Letters, 2014, 104, 043901.	3.3	18
31	Heavy Dirac fermions in a graphene/topological insulator hetero-junction. 2D Materials, 2016, 3, 034006.	4.4	18
32	Evolution of Electronic Structure in Pristine and Rb-Reconstructed Surfaces of Kagome Metal RbV₃Sb₅. Nano Letters, 2022, 22, 918-925.	9.1	17
33	Field-Effect Birefringent Spin Lens in Ultrathin Film of Magnetically Doped Topological Insulators. Physical Review Letters, 2013, 111, 116601.	7.8	15
34	Electronic and magnetic properties of boron nitride nanoribbons with topological line defects. RSC Advances, 2012, 2, 6192.	3.6	14
35	Stable Dirac semimetal in the allotropes of group-IV elements. Physical Review B, 2016, 93, .	3.2	13
36	Structural phase transition and electronic structure evolution in Ir 1â€“x Pt x Te 2 studied by scanning tunneling microscopy. Science Bulletin, 2015, 60, 798-805.	9.0	10

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37	Two-dimensional intrinsic ferromagnetic monolayer transition metal oxyhydroxide. Physical Review B, 2021, 103, .	3.2	10
38	Spin manipulation by giant valley-Zeeman spin-orbit field in atom-thick WSe2. Applied Physics Reviews, 2022, 9, .	11.3	10
39	Metallicity retained by covalent functionalization of graphene with phenyl groups. Nanoscale, 2013, 5, 7537.	5.6	9
40	Chemical Potential Switching of the Anomalous Hall Effect in an Ultrathin Noncollinear Antiferromagnetic Metal. Advanced Materials, 2022, 34, e2200487.	21.0	7
41	Topological phase transitions induced by disorder in magnetically doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mi>Bi</mml:mi>	3.2	6
42	Orbital-selective two-dimensional superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mn>2</mml:mn><mml:mi mathvariant="normal">H</mml:mi></mml:mrow><mml:mtext>â˜’</mml:mtext><mml:msub><mml:mi>NbS</mml:mi><mml:mn>2</mml:mn></mm Physical Review Research, 2022, 4, .	3.6	5
43	Role of Ga-doping in ironâ€”gallium alloy clusters. Chinese Physics B, 2012, 21, 027104.	1.4	1
44	Realizing the quantum anomalous Hall effect in materials with in-plane magnetization. National Science Review, 2014, 1, 33-33.	9.5	0