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	Light-induced emergent phenomena in 2D materials and topological materials. Nature Reviews Physics, 2022, 4, 33-48.	26.6	94
2	Singleâ€Atom Reversible Lithiophilic Sites toward Stable Lithium Anodes. Advanced Energy Materials, 2022, 12, .	19.5	49
3	Evolution of Electronic Structure in Pristine and Rb-Reconstructed Surfaces of Kagome Metal RbV₃Sb₅. Nano Letters, 2022, 22, 918-925.	9.1	17
4	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></mml:msub></mml:mrow></mml:math> Physical Review Research, 2022, 4, .	3.6	5
5	Chemical Potential Switching of the Anomalous Hall Effect in an Ultrathin Noncollinear Antiferromagnetic Metal. Advanced Materials, 2022, 34, e2200487.	21.0	7
6	Unconventional excitonic states with phonon sidebands in layered silicon diphosphide. Nature Materials, 2022, 21, 773-778.	27.5	20
7	Spin manipulation by giant valley-Zeeman spin-orbit field in atom-thick WSe2. Applied Physics Reviews, 2022, 9, .	11.3	10
8	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
9	Two-dimensional intrinsic ferromagnetic monolayer transition metal oxyhydroxide. Physical Review B, 2021, 103, .	3.2	10
10	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> thin films. Physical Review B, 2020, 102, .	3.2	6
11	Berry curvature engineering by gating two-dimensional antiferromagnets. Physical Review Research, 2020, 2, .	3.6	22
12	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
13	Microscopic theory for the light-induced anomalous Hall effect in graphene. Physical Review B, 2019, 99, .	3.2	117
14	Spatially controlled doping of two-dimensional SnS2 through intercalation for electronics. Nature Nanotechnology, 2018, 13, 294-299.	31.5	269
15	Reversible and selective ion intercalation through the top surface of few-layer MoS2. Nature Communications, 2018, 9, 5289.	12.8	119
16	Visualizing topological edge states of single and double bilayer Bi supported on multibilayer Bi(111) films. Physical Review B, 2018, 98, .	3.2	40
17	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
18	Dirac semimetal phase in hexagonal LiZnBi. Physical Review B, 2017, 96, .	3.2	26

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19	Gated tuned superconductivity and phonon softening in monolayer and bilayer MoS2. Npj Quantum Materials, 2017, 2, .	5.2	33
20	Multiple Types of Topological Fermions in Transition Metal Silicides. Physical Review Letters, 2017, 119, 206402.	7.8	298
21	Magnetic order induces symmetry breaking in the single-crystalline orthorhombic CuMnAs semimetal. Physical Review B, 2017, 96, .	3.2	22
22	Dirac fermions in an antiferromagnetic semimetal. Nature Physics, 2016, 12, 1100-1104.	16.7	216
23	Stable Dirac semimetal in the allotropes of group-IV elements. Physical Review B, 2016, 93, .	3.2	13
24	Topological Superconductivity on the Surface of Fe-Based Superconductors. Physical Review Letters, 2016, 117, 047001.	7.8	198
25	Heavy Dirac fermions in a graphene/topological insulator hetero-junction. 2D Materials, 2016, 3, 034006.	4.4	18
26	Manipulation of Magnetic Properties by Oxygen Vacancies in Multiferroic YMnO₃. Advanced Functional Materials, 2016, 26, 3589-3598.	14.9	45
27	Large-gap quantum spin Hall states in decorated stanene grown on a substrate. Physical Review B, 2015, 92, .	3.2	108
28	Band Engineering of Dirac Surface States in Topological-Insulator-Based van der Waals Heterostructures. Physical Review Letters, 2015, 115, 136801.	7.8	34
29	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
30	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
31	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> by Aggregated Substitutional Cr Atoms. Physical Review Letters, 2014, 112, 056801.	7.8	102
32	Sulfur immobilization and lithium storage on defective graphene: A first-principles study. Applied Physics Letters, 2014, 104, 043901.	3.3	18
33	Stable two-dimensional dumbbell stanene: A quantum spin Hall insulator. Physical Review B, 2014, 90, .	3.2	154
34	Realizing the quantum anomalous Hall effect in materials with in-plane magnetization. National Science Review, 2014, 1, 33-33.	9.5	0
35	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>Tel. Physical Review B, 2014, 89, .	3.2	46
36	Metallicity retained by covalent functionalization of graphene with phenyl groups. Nanoscale, 2013, 5, 7537.	5.6	9

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37	Large-Gap Quantum Spin Hall Insulators in Tin Films. Physical Review Letters, 2013, 111, 136804.	7.8	1,140
38	Electronic structure of silicene on Ag(111): Strong hybridization effects. Physical Review B, 2013, 88, .	3.2	186
39	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
40	Field-Effect Birefringent Spin Lens in Ultrathin Film of Magnetically Doped Topological Insulators. Physical Review Letters, 2013, 111, 116601.	7.8	15
41	Topology-Driven Magnetic Quantum Phase Transition in Topological Insulators. Science, 2013, 339, 1582-1586.	12.6	206
42	Design of strain-engineered quantum tunneling devices for topological surface states. Applied Physics Letters, 2012, 100, 131602.	3.3	26
43	Role of Ga-doping in ironâ€"gallium alloy clusters. Chinese Physics B, 2012, 21, 027104.	1.4	1
44	Electronic and magnetic properties of boron nitride nanoribbons with topological line defects. RSC Advances, 2012, 2, 6192.	3.6	14