

Xi Chen

List of Publications by Year in descending order

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papers

10,851
citations

81900

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65
docs citations

65
times ranked

10271
citing authors

#	ARTICLE	IF	CITATIONS
1	Crossover of the three-dimensional topological insulator Bi ₂ Se ₃ to the two-dimensional limit. Nature Physics, 2010, 6, 584-588.	16.7	1,227
2	Interface-Induced High-Temperature Superconductivity in Single Unit-Cell FeSe Films on SrTiO ₃ . Chinese Physics Letters, 2012, 29, 037402.	3.3	972
3	Discovery of robust in-plane ferroelectricity in atomic-thick SnTe. Science, 2016, 353, 274-278.	12.6	742
4	Phase diagram and electronic indication of high-temperature superconductivity at 65 K in single-layer FeSe films. Nature Materials, 2013, 12, 605-610.	27.5	706
5	Experimental observation of topological Fermi arcs in type-II Weyl semimetal MoTe ₂ . Nature Physics, 2016, 12, 1105-1110.	16.7	663
6	Experimental Demonstration of Topological Surface States Protected by Time-Reversal Symmetry. Physical Review Letters, 2009, 103, 266803.	7.8	653
7	Electronic origin of high-temperature superconductivity in single-layer FeSe superconductor. Nature Communications, 2012, 3, 931.	12.8	495
8	Superconductivity in one-atomic-layer metal films grown on Si(111). Nature Physics, 2010, 6, 104-108.	16.7	479
9	Intrinsic Topological Insulator Bi ₂ Te ₃ Thin Films on Si and Their Thickness Limit. Advanced Materials, 2010, 22, 4002-4007.	21.0	376
10	Landau Quantization of Topological Surface States in Bi_2Te_3 Physical Review Letters, 2010, 105, 076801.	7.8	352
11	Crossover between Weak Antilocalization and Weak Localization in a Magnetically Doped Topological Insulator. Physical Review Letters, 2012, 108, 036805.	7.8	295
12	Phase separation and magnetic order in K-doped iron selenide superconductor. Nature Physics, 2012, 8, 126-130.	16.7	280
13	Thin Films of Magnetically Doped Topological Insulator with Carrier-Independent Long-Range Ferromagnetic Order. Advanced Materials, 2013, 25, 1065-1070.	21.0	246
14	Probing Superexchange Interaction in Molecular Magnets by Spin-Flip Spectroscopy and Microscopy. Physical Review Letters, 2008, 101, 197208.	7.8	231
15	Electronic structure and topological surface state in Bi ₂ Se ₃ Physical Review Letters, 2010, 105, 076801.	3.2	226
16	Manipulating the Kondo Resonance through Quantum Size Effects. Physical Review Letters, 2007, 99, 256601.	7.8	207
17	Landau Quantization and the Thickness Limit of Topological Insulator Thin Films of Sb_2Te_3 Physical Review Letters, 2012, 108, 016401.	7.8	195
18	Topological Insulator Thin Films of Bi ₂ Te ₃ with Controlled Electronic Structure. Advanced Materials, 2011, 23, 2929-2932.	21.0	194

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19	High-Resolution Scanning Tunneling Spectroscopy of Magnetic Impurity Induced Bound States in the Superconducting Gap of Pb Thin Films. <i>Physical Review Letters</i> , 2008, 100, 226801.	7.8	182
20	Topological insulator Bi ₂ Se ₃ thin films grown on double-layer graphene by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	154
21	Fermi-Level Tuning of Epitaxial Sb_2Te_3 Films on Graphene by Regulating Intrinsic Defects and Substrate Transfer Doping. <i>Physical Review Letters</i> , 2012, 108, 066809.	7.8	152
22	Fully gapped topological surface states in Bi ₂ Se ₃ films induced by a d-wave high-temperature superconductor. <i>Nature Physics</i> , 2013, 9, 621-625.	16.7	149
23	Molecular-beam epitaxy and robust superconductivity of stoichiometric FeSe crystalline films on bilayer graphene. <i>Physical Review B</i> , 2011, 84, .	3.2	146
24	Molecular Beam Epitaxial Growth of Topological Insulators. <i>Advanced Materials</i> , 2011, 23, 1162-1165.	21.0	118
25	Experimental Observation of Dirac-like Surface States and Topological Phase Transition in $Pb_{1-x}Bi_x$ Topological Insulators. <i>Physical Review Letters</i> , 2014, 112, 186801.	10.9	109
26	Atomically smooth ultrathin films of topological insulator Sb ₂ Te ₃ . <i>Nano Research</i> , 2010, 3, 874-880.	10.4	104
27	KFe_2Se_3 the Parent Compound of K-Doped Iron Selenide Superconductors. <i>Physical Review Letters</i> , 2012, 109, 057003.	7.8	101
28	Enhanced Spontaneous Polarization in Ultrathin SnTe Films with Layered Antipolar Structure. <i>Advanced Materials</i> , 2019, 31, e1804428.	21.0	88
29	High-Temperature Superconductivity in Single-Unit-Cell FeSe Films on Anatase TiO_2 . <i>Physical Review Letters</i> , 2012, 108, 077001.	7.8	87
30	Disorder-induced multifractal superconductivity in monolayer niobium dichalcogenides. <i>Nature Physics</i> , 2019, 15, 904-910.	16.7	86
31	Molecular Beam Epitaxy Grown SnSe in the Rock Salt Structure: An Artificial Topological Crystalline Insulator Material. <i>Advanced Materials</i> , 2015, 27, 4150-4154.	21.0	83
32	Topological p - n Junction. <i>Physical Review B</i> , 2012, 85, 120401.	3.2	79
33	Sb_2Te_3 Physical Review B, 2011, 84, .	3.2	70
34	Power-law decay of standing waves on the surface of topological insulators. <i>Physical Review B</i> , 2011, 84, .	3.2	69
35	Growth of atomically thick transition metal sulfide filmson graphene/6H-SiC(0001) by molecular beam epitaxy. <i>Nano Research</i> , 2018, 11, 4722-4727.	10.4	53
36	Identifying Charge States of Molecules with Spin-Flip Spectroscopy. <i>Physical Review Letters</i> , 2009, 103, 257202.	7.8	52

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37	Superconductivity dichotomy in K-coated single and double unit cell FeSe films on SrTiO_3 . Physical Review B, 2015, 92, .	3.2	47
38	Scanning tunneling spectroscopic study of monolayer 1T-TaS ₂ and 1T-TaSe ₂ . Nano Research, 2020, 13, 133-137.	10.4	46
39	Gating the charge state of single Fe dopants in the topological insulator Bi ₂ S ₃ with a scanning tunneling microscope. Physical Review B, 2012, 86, .	3.2	42
40	Growth of topological crystalline insulator SnTe thin films on Si(111) substrate by molecular beam epitaxy. Surface Science, 2014, 621, 104-108.	1.9	28
41	Standing Waves Induced by Valley-Mismatched Domains in Ferroelectric SnTe Monolayers. Physical Review Letters, 2019, 122, 206402.	7.8	27
42	Mass acquisition of Dirac fermions in magnetically doped topological insulator Sb_2Te_3 . Physical Review B, 2016, 93, .	3.2	22
43	Charge ordering in stoichiometric FeTe: Scanning tunneling microscopy and spectroscopy. Physical Review B, 2016, 93, .	3.2	21
44	Revealing Fermi arcs and Weyl nodes in MoTe ₂ by quasiparticle interference mapping. Physical Review B, 2017, 95, .	3.2	21
45	Application of magnetic atom induced bound states in superconducting gap for chemical identification of single magnetic atoms. Applied Physics Letters, 2010, 96, .	3.3	20
46	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
47	Probing Dirac Fermion Dynamics in Topological Insulator Bi_2Te_3 with a Scanning Tunneling Microscope. Physical Review Letters, 2015, 114, 176602.	7.8	15
48	Transport properties of $\text{Sb}_2\text{Te}_3/\text{Bi}_2\text{Te}_3$ topological insulator heterostructures. Physica Status Solidi - Rapid Research Letters, 2013, 7, 142-144.	2.4	14
49	Scanning tunneling microscopy of interface properties of Bi_2Se_3 on FeSe. Journal of Physics Condensed Matter, 2012, 24, 475604.	1.8	12
50	Scanning tunneling microscopy studies of topological insulators. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 912-916.	2.7	11
51	Molecular beam epitaxy and superconductivity of stoichiometric FeSe and $\text{KxFe}_2\text{ySe}_2$ crystalline films. Chinese Physics B, 2013, 22, 086801.	1.4	11
52	Superconductivity in a single-layer alkali-doped FeSe: A weakly coupled two-leg ladder system. Physical Review B, 2013, 88, .	3.2	11
53	Probing subwavelength in-plane anisotropy with antenna-assisted infrared nano-spectroscopy. Nature Communications, 2021, 12, 2649.	12.8	9
54	STM and MBE: one of the best combinations. Journal Physics D: Applied Physics, 2011, 44, 464007.	2.8	8

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55	Superconducting FeSe monolayer with millielectronvolt Fermi energy. Physical Review B, 2021, 103, .	3.2	8
56	Molecular beam epitaxy growth of iodide thin films*. Chinese Physics B, 2021, 30, 028102.	1.4	7
57	<i>In-Situ</i> Manipulation of the Magnetic Anisotropy of Single Mn Atom via Molecular Ligands. Nano Letters, 2021, 21, 3566-3572.	9.1	7
58	Molecular Beam Epitaxy Growth and Electronic Structures of Monolayer GdTe ₃ . Chinese Physics Letters, 2021, 38, 077102.	3.3	6
59	Scanning tunneling microscopy studies of topological insulators. Journal of Physics Condensed Matter, 2014, 26, 394003.	1.8	5
60	Experimental evidence of the thickness- and electric-field-dependent topological phase transitions in topological crystalline insulator SnTe(111) thin films. Nano Research, 2018, 11, 6045-6050.	10.4	5
61	Doping nature of Cu in epitaxial topological insulator Bi ₂ Te ₃ thin films. Surface Science, 2013, 617, 156-161.	1.9	3
62	Growth of (111)-Orientated GdTe and TmTe Thin Films by van der Waals Molecular Beam Epitaxy. Journal of Physical Chemistry C, 2021, 125, 15465-15471.	3.1	3
63	Epitaxial growth and band structure of antiferromagnetic Mott insulator CeOI. Physical Review Materials, 2020, 4, .	2.4	2
64	Synthesis, Structure, and Phase Diagram: Film and STM. Springer Series in Materials Science, 2015, , 73-112.	0.6	0