

Wangxiang Feng

List of Publications by Year in descending order

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185998

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all docs

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docs citations

49
times ranked

10318
citing authors

#	ARTICLE	IF	CITATIONS
1	Constructing van der Waals heterostructures by dry-transfer assembly for novel optoelectronic device. Nanotechnology, 2022, 33, 465601.	1.3	7
2	Memristive Crossbar Arrays for Storage and Computing Applications. Advanced Intelligent Systems, 2021, 3, 2100017.	3.3	80
3	Crystal chirality magneto-optical effects in collinear antiferromagnets. Physical Review B, 2021, 104, .	1.1	18
4	Memristive Crossbar Arrays for Storage and Computing Applications. Advanced Intelligent Systems, 2021, 3, 2170065.	3.3	6
5	Strong magneto-optical effect and anomalous transport in the two-dimensional van der Waals magnets Fe_nGeTe_2 ($n=1, 2$). Physical Review B, 2021, 103, .	1.1	26
6	Sign-reversible valley-dependent Berry phase effects in 2D valley-half-semiconductors. Npj Computational Materials, 2021, 7, .	3.5	56
7	Tunable magneto-optical effect, anomalous Hall effect, and anomalous Nernst effect in the two-dimensional room-temperature ferromagnet Mn_2Te . Physical Review B, 2021, 103, .	1.1	22
8	Weyl Monolayer Semi-Half-Metal and Tunable Anomalous Hall Effect. Nano Letters, 2021, 21, 8749-8755.	4.5	16
9	Discovery of Real-Space Topological Ferroelectricity in Metallic Transition Metal Phosphides. Advanced Materials, 2020, 32, e2003479.	11.1	13
10	Topological magneto-optical effects and their quantization in noncoplanar antiferromagnets. Nature Communications, 2020, 11, 118.	5.8	51
11	Valley-dependent properties of monolayer MoSi_2N_4 and WSi_4N_8 . Physical Review B, 2020, 102, .	1.1	21
12	Giant anomalous Nernst effect in noncollinear antiferromagnetic Mn-based antiperovskite nitrides. Physical Review Materials, 2020, 4, .	0.9	24
13	Two-dimensional spin-valley-coupled Dirac semimetals in functionalized SbAs monolayers. Materials Horizons, 2019, 6, 781-787.	6.4	38
14	Fully Spin-Polarized Nodal Loop Semimetals in Alkaline Metal Monochalcogenide Monolayers. Journal of Physical Chemistry Letters, 2019, 10, 3101-3108.	2.1	29
15	Multifield-tunable magneto-optical effects in electron- and hole-doped nitrogen-graphene crystals. Journal of Materials Chemistry C, 2019, 7, 3360-3368.	2.7	10
16	Spin-order dependent anomalous Hall effect and magneto-optical effect in the noncollinear antiferromagnets Mn_3X_2 (X=N, P, As, Sb, Bi). Physical Review B, 2019, 99, .	1.1	55
17	Electron Transport Properties of Two-Dimensional Monolayer Films from Au-P-Au to Au-Si-Au Molecular Junctions. Chinese Physics Letters, 2018, 35, 017201.	1.3	1
18	Thickness-dependent magneto-optical effects in hole-doped GaS and GaSe multilayers: a first-principles study. New Journal of Physics, 2018, 20, 043048.	1.2	14

#	ARTICLE	IF	CITATIONS
19	Effects of hole doping and strain on magnetism in buckled phosphorene and arsenene. 2D Materials, 2017, 4, 025107.	2.0	40
20	Computational characterization of monolayer C3N: A two-dimensional nitrogen-graphene crystal. Journal of Materials Research, 2017, 32, 2993-3001.	1.2	110
21	Large magneto-optical effects in hole-doped blue phosphorene and gray arsenene. Nanoscale, 2017, 9, 17405-17414.	2.8	25
22	Tunable magneto-optical effects in hole-doped group-III A metal-monochalcogenide monolayers. 2D Materials, 2017, 4, 015017.	2.0	47
23	Electron Transport Properties of Two-Dimensional Si ₁ P ₁ Molecular Junctions. Chinese Physics Letters, 2017, 34, 027201.	1.3	1
24	Pressure induced Ag ₂ Te polymorphs in conjunction with topological non trivial to metal transition. AIP Advances, 2016, 6, 085003.	0.6	4
25	Nonmetallization and band inversion in beryllium dicarbide at high pressure. Scientific Reports, 2016, 6, 26398.	1.6	2
26	Large anomalous Hall effect in a half-Heusler antiferromagnet. Nature Physics, 2016, 12, 1119-1123.	6.5	232
27	First-principles investigations on the Berry phase effect in spin-orbit coupling materials. Computational Materials Science, 2016, 112, 428-447.	1.4	16
28	Large magneto-optical Kerr effect in noncollinear antiferromagnets		

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37	Coupled Spin and Valley Physics in Monolayers of MoS_2 and Other Group-VI Dichalcogenides. <i>Physical Review Letters</i> , 2012, 108, 196802.	2.9	3,872
38	First-principles calculation of topological invariants within the FP-LAPW formalism. <i>Computer Physics Communications</i> , 2012, 183, 1849-1859.	3.0	47
39	Three-dimensional topological insulators: A review on host materials. <i>Science China: Physics, Mechanics and Astronomy</i> , 2012, 55, 2199-2212.	2.0	26
40	Intrinsic spin Hall effect in monolayers of group-VI dichalcogenides: A first-principles study. <i>Physical Review B</i> , 2012, 86, .	1.1	213
41	Topological Aspect and Quantum Magnetoresistance of Te Ag_2 Three-Dimensional Topological Insulators. <i>Physical Review Letters</i> , 2011, 106, 076802.	2.9	183
42	Quantum Spin Hall Effect in Silicene and Two-Dimensional Germanium. <i>Physical Review Letters</i> , 2011, 107, 076802.	2.9	139
43	Engineering quantum anomalous/valley Hall states in graphene via metal-atom adsorption: An <i>ab-initio</i> study. <i>Physical Review B</i> , 2011, 84, .	2.9	1,972
44	Order-disorder phase transition and dissociation of hydrogen sulfide under high pressure: <i>Ab initio</i> molecular dynamics study. <i>Journal of Chemical Physics</i> , 2010, 132, 164506.	1.1	217
45	Order-disorder phase transition and dissociation of hydrogen sulfide under high pressure: <i>Ab initio</i> molecular dynamics study. <i>Journal of Chemical Physics</i> , 2010, 132, 164506.	1.2	17
46	Half-Heusler topological insulators: A first-principles study with the Tran-Blaha modified Becke-Johnson density functional. <i>Physical Review B</i> , 2010, 82, .	1.1	163
47	Quantum anomalous Hall effect in graphene from Rashba and exchange effects. <i>Physical Review B</i> , 2010, 82, .	1.1	567
48	Half-Heusler Compounds as a New Class of Three-Dimensional Topological Insulators. <i>Physical Review Letters</i> , 2010, 105, 096404.	1.1	306
49	Structural Investigation of Solid Methane at High Pressure. <i>Chinese Physics Letters</i> , 2010, 27, 066101.	1.3	1