Jia-Yong Zhang

List of Publications by Citations

29	553	12	23
papers	citations	h-index	g-index
32	727	4.4	4.05
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
29	Strong magnetization and Chern insulators in compressed graphene/CrI3 van der Waals heterostructures. *Physical Review B*, **2018**, 97,	3.3	77
28	Robust quantum anomalous Hall effect in graphene-based van der Waals heterostructures. *Physical Review B*, **2015**, 92,	3.3	61
27	Quantum spin Hall and Z2 metallic states in an organic material. *Physical Review B*, **2014**, 90,	3.3	59
26	Abundant topological states in silicene with transition metal adatoms. *Physical Review B*, **2013**, 88,	3.3	50
25	Quantum Anomalous Hall Effect in Graphene-based Heterostructure. *Scientific Reports*, **2015**, 5, 10629	4.9	41
24	Quantum Spin-Quantum Anomalous Hall Insulators and Topological Transitions in Functionalized Sb(111) Monolayers. *Nano Letters*, **2015**, 15, 5149-55	11.5	36
23	Large valley polarization in monolayer MoTe on a magnetic substrate. *Physical Chemistry Chemical Physics*, **2018**, 20, 3805-3812	3.6	28
22	Quantum spin□quantum anomalous Hall effect with tunable edge states in Sb monolayer-based heterostructures. *Physical Review B*, **2016**, 94,	3.3	25
21	Giant spin-valley polarization and multiple Hall effect in functionalized bismuth monolayers. *Npj Quantum Materials*, **2018**, 3,	5	24
20	Quantum anomalous Hall effect in stanene on a nonmagnetic substrate. *Physical Review B*, **2016**, 94,	3.3	24
19	Constructive coupling effect of topological states and topological phase transitions in plumbene. *Physical Review B*, **2019**, 99,	3.3	14
18	Possible realization of the high-temperature and multichannel quantum anomalous Hall effect in graphene/CrBr heterostructures under pressure. *Physical Chemistry Chemical Physics*, **2019**, 21, 17087-17095	3.6	14
17	Chern insulators without band inversion in MoS2 monolayers with 3d adatoms. *Physical Review B*, **2017**, 95,	3.3	12
16	Coupling effect of topological states and Chern insulators in two-dimensional triangular lattices. *Physical Review B*, **2018**, 97,	3.3	12
15	Novel Chern insulators with half-metallic edge states. *NPG Asia Materials*, **2018**, 10, e467-e467	10.3	11
14	Quantum anomalous Hall effect in real materials. *Chinese Physics B*, **2016**, 25, 117308	1.2	11
13	Quantum anomalous Hall effect in stable dumbbell stanene. *Applied Physics Letters*, **2016**, 108, 082104	3.4	10

List of Publications

12	Ultrafast all-optical modulation in Fe-doped GaN at 1.31 and 1.55 μm with high contrast and ultralow power. *Applied Physics Letters*, **2017**, 110, 161902	3.4	7
11	Prediction of intrinsic two-dimensional non-Dirac topological insulators in triangular metal-organic frameworks. *Applied Physics Letters*, **2019**, 114, 043102	3.4	7
10	Topologically trivial states induced by strong spin-orbit coupling and Chern insulators in doped X(C21N3H15) (X=Ta, Hf) metal-organic frameworks. *Physical Review B*, **2019**, 99,	3.3	6
9	Off-centered-symmetry-based band structure modulation of hexagonal WO. *Journal of Physics Condensed Matter*, **2019**, 31, 355501	1.8	5
8	Quantum valley Hall states and topological transitions in Pt(Ni, Pd)-decorated silicene: a first-principles study. *Journal of Chemical Physics*, **2014**, 141, 244701	3.9	3
7	Strain-modulated electrical and optical bandgaps of tetragonal WO3: An HSE06 hybrid functional calculation. *AIP Advances*, **2020**, 10, 095202	1.5	3
6	Bipolar ferromagnetic semiconductors and doping-tuned room-temperature half-metallicity in monolayer MoX3 (X=Cl, Br, I): An HSE06 study. *Physical Review B*, **2021**, 103,	3.3	3
5	Water-Dispersible CsPbBr Perovskite Nanocrystals with Ultra-Stability and its Application in Electrochemical CO Reduction. *Nano-Micro Letters*, **2021**, 13, 172	19.5	3
4	Coexistence of valley polarization and Chern insulating states in MoS monolayers with n-p codoping. *Scientific Reports*, **2020**, 10, 9851	4.9	2
3	Nonvolatile tuning of the Rashba effect in the CuInP2S6/MoSSe/CuInP2S6 heterostructure. *Journal of Applied Physics*, **2020**, 128, 224105	2.5	2
2	Robust quantum anomalous Hall effect with electrically tunable band gap in Ta-decorated silicene. *Applied Physics Letters*, **2019**, 114, 053105	3.4	1
1	Trigonal multivalent polonium monolayers with intrinsic quantum spin Hall effects.. *Scientific Reports*, **2022**, 12, 2129	4.9	0