

Jia-Yong Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

29
papers

553
citations

12
h-index

23
g-index

32
ext. papers

727
ext. citations

4.4
avg, IF

4.05
L-index

#	Paper	IF	Citations
29	Trigonal multivalent polonium monolayers with intrinsic quantum spin Hall effects.. <i>Scientific Reports</i> , 2022 , 12, 2129	4.9	0
28	Bipolar ferromagnetic semiconductors and doping-tuned room-temperature half-metallicity in monolayer MoX ₃ (X=Cl, Br, I): An HSE06 study. <i>Physical Review B</i> , 2021 , 103,	3.3	3
27	Water-Dispersible CsPbBr Perovskite Nanocrystals with Ultra-Stability and its Application in Electrochemical CO Reduction. <i>Nano-Micro Letters</i> , 2021 , 13, 172	19.5	3
26	Coexistence of valley polarization and Chern insulating states in MoS monolayers with n-p codoping. <i>Scientific Reports</i> , 2020 , 10, 9851	4.9	2
25	Nonvolatile tuning of the Rashba effect in the CuInP ₂ S ₆ /MoSSe/CuInP ₂ S ₆ heterostructure. <i>Journal of Applied Physics</i> , 2020 , 128, 224105	2.5	2
24	Strain-modulated electrical and optical bandgaps of tetragonal WO ₃ : An HSE06 hybrid functional calculation. <i>AIP Advances</i> , 2020 , 10, 095202	1.5	3
23	Off-centered-symmetry-based band structure modulation of hexagonal WO. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 355501	1.8	5
22	Constructive coupling effect of topological states and topological phase transitions in plumbene. <i>Physical Review B</i> , 2019 , 99,	3.3	14
21	Prediction of intrinsic two-dimensional non-Dirac topological insulators in triangular metal-organic frameworks. <i>Applied Physics Letters</i> , 2019 , 114, 043102	3.4	7
20	Robust quantum anomalous Hall effect with electrically tunable band gap in Ta-decorated silicene. <i>Applied Physics Letters</i> , 2019 , 114, 053105	3.4	1
19	Possible realization of the high-temperature and multichannel quantum anomalous Hall effect in graphene/CrBr heterostructures under pressure. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 17087-17095	2.6	14
18	Topologically trivial states induced by strong spin-orbit coupling and Chern insulators in doped X(C ₂ N ₃ H ₁₅) (X=Ta, Hf) metal-organic frameworks. <i>Physical Review B</i> , 2019 , 99,	3.3	6
17	Novel Chern insulators with half-metallic edge states. <i>NPG Asia Materials</i> , 2018 , 10, e467-e467	10.3	11
16	Strong magnetization and Chern insulators in compressed graphene/CrI ₃ van der Waals heterostructures. <i>Physical Review B</i> , 2018 , 97,	3.3	77
15	Large valley polarization in monolayer MoTe on a magnetic substrate. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 3805-3812	3.6	28
14	Coupling effect of topological states and Chern insulators in two-dimensional triangular lattices. <i>Physical Review B</i> , 2018 , 97,	3.3	12
13	Giant spin-valley polarization and multiple Hall effect in functionalized bismuth monolayers. <i>Npj Quantum Materials</i> , 2018 , 3,	5	24

12	Chern insulators without band inversion in MoS2 monolayers with 3d adatoms. <i>Physical Review B</i> , 2017 , 95,	3-3	12
11	Ultrafast all-optical modulation in Fe-doped GaN at 1.31 and 1.55 EeV with high contrast and ultralow power. <i>Applied Physics Letters</i> , 2017 , 110, 161902	3-4	7
10	Quantum anomalous Hall effect in real materials. <i>Chinese Physics B</i> , 2016 , 25, 117308	1.2	11
9	Quantum spin-quantum anomalous Hall effect with tunable edge states in Sb monolayer-based heterostructures. <i>Physical Review B</i> , 2016 , 94,	3-3	25
8	Quantum anomalous Hall effect in stanene on a nonmagnetic substrate. <i>Physical Review B</i> , 2016 , 94,	3-3	24
7	Quantum anomalous Hall effect in stable dumbbell stanene. <i>Applied Physics Letters</i> , 2016 , 108, 082104	3-4	10
6	Quantum Anomalous Hall Effect in Graphene-based Heterostructure. <i>Scientific Reports</i> , 2015 , 5, 10629	4-9	41
5	Quantum Spin-Quantum Anomalous Hall Insulators and Topological Transitions in Functionalized Sb(111) Monolayers. <i>Nano Letters</i> , 2015 , 15, 5149-55	11.5	36
4	Robust quantum anomalous Hall effect in graphene-based van der Waals heterostructures. <i>Physical Review B</i> , 2015 , 92,	3-3	61
3	Quantum spin Hall and Z2 metallic states in an organic material. <i>Physical Review B</i> , 2014 , 90,	3-3	59
2	Quantum valley Hall states and topological transitions in Pt(Ni, Pd)-decorated silicene: a first-principles study. <i>Journal of Chemical Physics</i> , 2014 , 141, 244701	3-9	3
1	Abundant topological states in silicene with transition metal adatoms. <i>Physical Review B</i> , 2013 , 88,	3-3	50