

# Shan Guan

## List of Publications by Year in descending order

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16  
papers

942  
citations

759233

12  
h-index

940533

16  
g-index

16  
all docs

16  
docs citations

16  
times ranked

1110  
citing authors

#	ARTICLE	IF	CITATIONS
1	Emergent linear Rashba spin-orbit coupling offers fast manipulation of hole-spin qubits in germanium. Physical Review B, 2022, 105, .	3.2	8
2	Orientation-dependent Rashba spin-orbit coupling of two-dimensional hole gases in semiconductor quantum wells: Linear or cubic. Physical Review B, 2022, 105, .	3.2	5
3	Emergence of strong tunable linear Rashba spin-orbit coupling in two-dimensional hole gases in semiconductor quantum wells. Physical Review B, 2021, 103, .	3.2	24
4	Tunable magnetism in ferroelectric $\text{In}_2\text{Se}_3$ by hole-doping. Applied Physics Letters, 2021, 118, .	3.3	25
5	Enhanced in-plane ferroelectricity, antiferroelectricity, and unconventional 2D emergent fermions in quadruple-layer $\text{XSbO}_2$ (X = Li, Na). Nanoscale, 2021, 13, 19172-19180.	5.6	5
6	Electrically switchable hidden spin polarization in antiferroelectric crystals. Physical Review B, 2020, 102, .	3.2	13
7	Valley-Layer Coupling: A New Design Principle for Valleytronics. Physical Review Letters, 2020, 124, 037701.	7.8	69
8	Two-dimensional nodal-loop half-metal in monolayer MnN. Physical Review Materials, 2019, 3, .	2.4	55
9	Tunable ferroelectricity and anisotropic electric transport in monolayer $\text{GeSe}$ . Physical Review B, 2018, 97, .	3.2	72
10	Nonsymmorphic-symmetry-protected hourglass Dirac loop, nodal line, and Dirac point in bulk and monolayer $\text{MgX}_2$ ( $\text{X} = \text{Te}, \text{Se}$ )	3.2	105
11	Monolayer $\text{Mg}_2\text{C}$ : Negative Poisson's ratio and unconventional two-dimensional emergent fermions. Physical Review Materials, 2018, 2, .	2.4	36
12	Artificial gravity field, astrophysical analogues, and topological phase transitions in strained topological semimetals. Npj Quantum Materials, 2017, 2, .	5.2	116
13	Type-II nodal loops: Theory and material realization. Physical Review B, 2017, 96, .	3.2	158
14	Two-dimensional spin-orbit Dirac point in monolayer HfGeTe. Physical Review Materials, 2017, 1, .	2.4	70
15	Multiple unpinned Dirac points in group-Va single-layers with phosphorene structure. Npj Computational Materials, 2016, 2, .	8.7	57
16	Blue Phosphorene Oxide: Strain-Tunable Quantum Phase Transitions and Novel 2D Emergent Fermions. Nano Letters, 2016, 16, 6548-6554.	9.1	114