

Xuechao Zhai

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

389
citations

687363

13
h-index

752698

20
g-index

23
all docs

23
docs citations

23
times ranked

322
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoinduced topological phase transition in epitaxial graphene. <i>Physical Review B</i> , 2014, 89, .	3.2	59
2	Stretching-enhanced ballistic thermal conductance in graphene nanoribbons. <i>Europhysics Letters</i> , 2011, 96, 16002.	2.0	33
3	Valley-locked thermospin effect in silicene and germanene with asymmetric magnetic field induced by ferromagnetic proximity effect. <i>Physical Review B</i> , 2018, 97, .	3.2	27
4	Completely independent electrical control of spin and valley in a silicene field effect transistor. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 355002.	1.8	26
5	Reversing Berry phase and modulating Andreev reflection by Rashba spin-orbit coupling in graphene mono- and bilayers. <i>Physical Review B</i> , 2014, 89, .	3.2	23
6	Spin-valley caloritronics in silicene near room temperature. <i>Physical Review B</i> , 2016, 94, .	3.2	23
7	Valley- π spin Seebeck effect in heavy group-IV monolayers. <i>New Journal of Physics</i> , 2017, 19, 063007.	2.9	22
8	Spin-valley polarized quantum anomalous Hall effect and a valley-controlled half-metal in bilayer graphene. <i>Physical Review B</i> , 2020, 101, .	3.2	21
9	Giant Seebeck magnetoresistance triggered by electric field and assisted by a valley through a ferromagnetic/antiferromagnetic junction in heavy group-IV monolayers. <i>Physical Review B</i> , 2019, 99, .	3.2	19
10	Valley-Mediated and Electrically Switched Bipolar-Unipolar Transition of the Spin-Diode Effect in Heavy Group-IV Monolayers. <i>Physical Review Applied</i> , 2019, 11, .	3.8	18
11	Bipolar-unipolar transition in thermospin transport through a graphene-based transistor. <i>Applied Physics Letters</i> , 2012, 101, 083117.	3.3	17
12	Bipolar spin-valley diode effect in a silicene magnetic junction. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	15
13	Proposal for realizing the quantum spin Hall phase in a gapped graphene bilayer. <i>Physical Review B</i> , 2016, 93, .	3.2	14
14	Topological valley transport of gapped Dirac magnons in bilayer ferromagnetic insulators. <i>Physical Review B</i> , 2020, 102, .	3.2	13
15	Gate voltage induced topological phase transition in hexagonal boron-nitride bilayers. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	10
16	Andreev reflection and 0- π transition in graphene-based antiferromagnetic superconducting junctions. <i>Europhysics Letters</i> , 2019, 125, 37001.	2.0	9
17	Electrically Controllable Van Der Waals Antiferromagnetic Spin Valve. <i>Physical Review Applied</i> , 2021, 16, .	3.8	9
18	Electric-field strength and doping level controlled spin-valley transport in a silicene np junction. <i>Solid State Communications</i> , 2016, 244, 43-46.	1.9	8

#	ARTICLE	IF	CITATIONS
19	Bipolar spin diode based on a bent graphene nanoribbon. Solid State Communications, 2012, 152, 2109-2112.	1.9	6
20	Asymmetric bandgaps and Landau levels in a Bernal-stacked hexagonal boron-nitride bilayer. Journal of Physics Condensed Matter, 2014, 26, 015304.	1.8	6
21	Thermally driven spin transport through a transverse-biased zigzag-edge graphene nanoribbon. Journal of Physics Condensed Matter, 2012, 24, 095302.	1.8	5
22	TOPOLOGICAL QUANTUM PHASE TRANSITIONS IN TWO-DIMENSIONAL HEXAGONAL LATTICE BILAYERS. Spin, 2013, 03, 1330006.	1.3	4
23	Layered opposite Rashba spin-orbit coupling in bilayer graphene: Loss of spin chirality, symmetry breaking, and topological transition. Physical Review B, 2022, 105, .	3.2	2