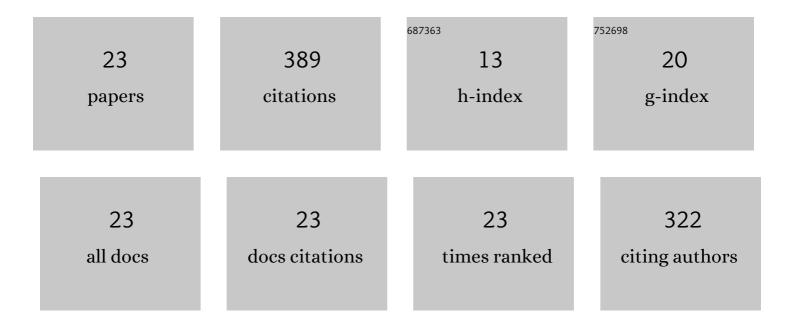
Xuechao Zhai

List of Publications by Year in descending order

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Χιιέςμλο Ζηλι

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

Хиеснао Zhai

| # | 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 |