Tiancong Zhu

List of Publications by Year
in descending order

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25 papers	1,231 citations	858243 12 h-index	651938 25 g-index
25 all docs	25 docs citations	25 times ranked	2482 citing authors

#	Article	IF	Citations
1	Large-gap insulating dimer ground state in monolayer IrTe2. Nature Communications, 2022, 13, 906.	5.8	11
2	Imaging gate-tunable Tomonagaâ€“Luttinger liquids in 1H-MoSe2 mirror twin boundaries. Nature Materials, 2022, 21, 748-753.	13.3	17
3	Scanning tunneling microscopy study of the antiferromagnetic topological insulator MnBi2Se4. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 143, 115391.	1.3	4
4	Visualizing delocalized correlated electronic states in twisted double bilayer graphene. Nature Communications, 2021, 12, 2516.	5.8	30
5	Synthesis, Magnetic Properties, and Electronic Structure of Magnetic Topological Insulator MnBi₂Se₄. Nano Letters, 2021, 21, 5083-5090.	4.5	28
6	Atomic-scale visualization of topological spin textures in the chiral magnet MnGe. Science, 2021, 374, 1484-1487.	6.0	15
7	Determining Surface Terminations and Chirality of Noncentrosymmetric FeGe Thin Films via Scanning Tunneling Microscopy. ACS Applied Materials & Interfaces, 2020, 12, 9896-9901.	4.0	4
8	Chemical migration and dipole formation at van der Waals interfaces between magnetic transition metal chalcogenides and topological insulators. Physical Review Materials, 2020, 4, .	0.9	4
9	Coherent growth and characterization of van der Waals <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi mathvariant="normal">T</mml:mi><mml:mtext>â^'</mml:mtext><mml:msub><mml:mi>VSe</mml:mi><mml:mn>2</mml:mn></mml:m layers on GaAs(111)B using molecular beam epitaxy. Physical Review Materials, 2020, 4, .	0.9	2
10	Modeling the oblique spin precession in lateral spin valves for accurate determination of the spin lifetime anisotropy: Effect of finite contact resistance and channel length. Physical Review B, 2018, 97, .	1.1	9
11	Room Temperature Intrinsic Ferromagnetism in Epitaxial Manganese Selenide Films in the Monolayer Limit. Nano Letters, 2018, 18, 3125-3131.	4.5	567
12	Strong and Tunable Spin-Lifetime Anisotropy in Dual-Gated Bilayer Graphene. Physical Review Letters, 2018, 121, 127703.	2.9	58
13	Transport Spectroscopy of Sublattice-Resolved Resonant Scattering in Hydrogen-Doped Bilayer Graphene. Physical Review Letters, 2018, 121, 136801.	2.9	11
14	Importance of Paramagnetic Background Subtraction for Determining the Magnetic Moment in Epitaxially Grown Ultrathin van der Waals Magnets. IEEE Magnetics Letters, 2018, 9, 1-5.	0.6	11
15	Spin inversion in graphene spin valves by gate-tunable magnetic proximity effect at one-dimensional contacts. Nature Communications, 2018, 9, 2869.	5.8	65
16	Probing tunneling spin injection into graphene via bias dependence. Physical Review B, 2018, 98, .	1.1	9
17	Topological Dirac semimetal Na3Bi films in the ultrathin limit via alternating layer molecular beam epitaxy. APL Materials, 2018, 6, 086103.	2.2	4
18	Opto-Valleytronic Spin Injection in Monolayer MoS₂/Few-Layer Graphene Hybrid Spin Valves. Nano Letters, 2017, 17, 3877-3883.	4.5	176

#	Article	IF	Citations
19	Strontium Oxide Tunnel Barriers for High Quality Spin Transport and Large Spin Accumulation in Graphene. Nano Letters, 2017, 17, 7578-7585.	4.5	20
20	Strong Modulation of Spin Currents in Bilayer Graphene by Static and Fluctuating Proximity Exchange Fields. Physical Review Letters, 2017, 118, 187201.	2.9	66
21	Nanosecond spin relaxation times in single layer graphene spin valves with hexagonal boron nitride tunnel barriers. Applied Physics Letters, 2016, 109, 122411.	1.5	41
22	Experimental Demonstration of xor Operation in Graphene Magnetologic Gates at Room Temperature. Physical Review Applied, 2016, 5, .	1.5	58
23	Molecular beam epitaxy growth of SrO buffer layers on graphite and graphene for the integration of complex oxides. Journal of Crystal Growth, 2016, 447, 5-12.	0.7	6
24	Current-based detection of nonlocal spin transport in graphene for spin-based logic applications. Journal of Applied Physics, 2014, 115, 17B741.	1.1	5
25	Electronic structures and optical properties of GaN nanotubes with MgGaâ€“ON co-doping. Materials Chemistry and Physics, 2013, 138, 225-229.	2.0	10