Huixia Fu

List of Publications by Year
in descending order

40 papers	1,742 citations	331670 21 h-index	289244 40 g-index
40 all docs	40 docs citations	40 times ranked	2717 citing authors

#	Article	IF	Citations
1	Electronic structures and unusually robust bandgap in an ultrahigh-mobility layered oxide semiconductor, Bi ₂ O ₂ Se. Science Advances, 2018, 4, eaat8355.	10.3	167
2	A native oxide high-Î¹ gate dielectric for two-dimensional electronics. Nature Electronics, 2020, 3, 473-478.	26.0	141
3	Ordered and Reversible Hydrogenation of Silicene. Physical Review Letters, 2015, 114, 126101.	7.8	127
4	From Silicene to Half-Silicane by Hydrogenation. ACS Nano, 2015, 9, 11192-11199.	14.6	97
5	Low Residual Carrier Concentration and High Mobility in 2D Semiconducting Bi₂O₂Se. Nano Letters, 2019, 19, 197-202.	9.1	95
6	Exchange bias and quantum anomalous Hall effect in the MnBi ₂ Te ₄ /CrI ₃ heterostructure. Science Advances, 2020, 6, eaaz0948.	10.3	89
7	Interlayerâ€Stateâ€Coupling Dependent Ultrafast Charge Transfer in MoS₂/WS₂ Bilayers. Advanced Science, 2017, 4, 1700086.	11.2	87
8	Observation of charge to spin conversion in Weyl semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WTe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> at room temperature. Physical Review Research, 2020, 2, .	3.6	78
9	Intrinsic valley polarization of magnetic VSe₂ monolayers. Journal of Physics Condensed Matter, 2017, 29, 255501.	1.8	73
10	Stacking-dependent electronic structure of bilayer silicene. Applied Physics Letters, 2014, 104, .	3.3	70
11	Large spin-orbit torque efficiency enhanced by magnetic structure of collinear antiferromagnet IrMn. Science Advances, 2019, 5, eaau6696.	10.3	70
12	Self-modulation doping effect in the high-mobility layered semiconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>Se</mml:mi></mml:mrow></mml:math>. Physical Review B, 2018, 97, .	3.2	63
13	Nonlinear Rashba spin splitting in transition metal dichalcogenide monolayers. Nanoscale, 2016, 8, 17854-17860.	5.6	60
14	Resolving the topological classification of bismuth with topological defects. Science Advances, 2019, 5, eaax6996.	10.3	59
15	Finite-temperature violation of the anomalous transverse Wiedemann-Franz law. Science Advances, 2020, 6, eaaz3522.	10.3	50
16	New Pathway for Hot Electron Relaxation in Two-Dimensional Heterostructures. Nano Letters, 2018, 18, 6057-6063.	9.1	49
17	Two-dimensional ferroelectric topological insulators in functionalized atomically thin bismuth layers. Physical Review B, 2018, 97, .	3.2	37
18	Probing Nonequilibrium Dynamics of Photoexcited Polarons on a Metal-Oxide Surface with Atomic Precision. Physical Review Letters, 2020, 124, 206801.	7.8	37

#	Article	IF	Citations
19	Photoexcitation Induced Quantum Dynamics of Charge Density Wave and Emergence of a Collective Mode in 1<i>T</i>-TaS₂. Nano Letters, 2019, 19, 6027-6034.	9.1	31
20	Exploiting Twoâ€Dimensional Bi₂O₂Se for Trace Oxygen Detection. Angewandte Chemie - International Edition, 2020, 59, 17938-17943.	13.8	31
21	Multilayered silicene: the bottom-up approach for a weakly relaxed Si(111) with Dirac surface states. Nanoscale, 2015, 7, 15880-15885.	5.6	28
22	Visualizing coexisting surface states in the weak and crystalline topological insulator Bi2TeI. Nature Materials, 2020, 19, 610-616.	27.5	23
23	An Iron-Porphyrin Complex with Large Easy-Axis Magnetic Anisotropy on Metal Substrate. ACS Nano, 2017, 11, 11402-11408.	14.6	20
24	Magnetic Dirac fermions and Chern insulator supported on pristine silicon surface. Physical Review B, 2016, 94, .	3.2	18
25	Band inversion and topology of the bulk electronic structure in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>FeSe</mml:mi><mml:mrow><mml:mn>0.45 Physical Review B, 2020, 101, .	3.2	18
26	Improving Photovoltaic Stability and Performance of Perovskite Solar Cells by Molecular Interface Engineering. Journal of Physical Chemistry C, 2019, 123, 1219-1225.	3.1	16
27	Induced anomalous Hall effect of massive Dirac fermions in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Zr</mml:mi><mml:msub><mml:mi>Te</mml:mi><mml:m and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Hf</mml:mi><mml:msub><mml:mi>Te</mml:mi><mml:m thin flakes. Physical Review B, 2021, 103, .	3.2	15
28	Two-dimensional silicon-carbon hybrids with a honeycomb lattice: New family for two-dimensional photovoltaic materials. Science China: Physics, Mechanics and Astronomy, 2015, 58, 1.	5.1	13
29	Tuning magnetic splitting of zigzag graphene nanoribbons by edge functionalization with hydroxyl groups. Journal of Applied Physics, 2015, 117, .	2.5	10
30	Fe on Sb(111): Potential Two-Dimensional Ferromagnetic Superstructures. ACS Nano, 2017, 11, 2143-2149.	14.6	9
31	Abnormal phase transition between two-dimensional high-density liquid crystal and low-density crystalline solid phases. Nature Communications, 2018, 9, 198.	12.8	9
32	Coexistence of Surface Superconducting and Three-Dimensional Topological Dirac States in Semimetal KZnBi. Physical Review X, 2021, 11, .	8.9	8
33	Exploiting Twoâ€Dimensional Bi₂O₂Se for Trace Oxygen Detection. Angewandte Chemie, 2020, 132, 18094-18099.	2.0	7
34	<i>In-Situ</i> Manipulation of the Magnetic Anisotropy of Single Mn Atom via Molecular Ligands. Nano Letters, 2021, 21, 3566-3572.	9.1	7
35	Prediction of silicon-based room temperature quantum spin Hall insulator via orbital mixing. Europhysics Letters, 2016, 113, 67003.	2.0	6
36	Tunable magnetic moment and potential half-metal behavior of Fe-nanostructure-embedded graphene perforation. Carbon, 2016, 107, 268-272.	10.3	6

#	Article	IF	Citations
37	Direct imaging of surface states hidden in the third layer of Si (111)-7â€‰Ã—â€‰7 surface by pz-wave tip. Applied Physics Letters, 2018, 113, .	3.3	6
38	Tunable quantum order in bilayer Bi2Te3: Stacking dependent quantum spin Hall states. Applied Physics Letters, 2018, 112, 243103.	3.3	6
39	Kondo Effect Mediated Topological Protection: Co on Sb(111). ACS Nano, 2014, 8, 11576-11582.	14.6	5
40	Surface conductivity in antiferromagnetic semiconductor CrSb2. Physical Review Research, 2020, 2, .	3.6	1