

Huixia Fu

List of Publications by Year in descending order

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Version: 2024-02-01

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	<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
2	Induced anomalous Hall effect of massive Dirac fermions in $ZrTe_5$ and $HfTe_5$ thin flakes. Physical Review B, 2021, 103, .	3.2	15
3	Coexistence of Surface Superconducting and Three-Dimensional Topological Dirac States in Semimetal KZnBi. Physical Review X, 2021, 11, .	8.9	8
4	Exploiting Two-Dimensional Bi ₂ O ₂ Se for Trace Oxygen Detection. Angewandte Chemie, 2020, 132, 18094-18099.	2.0	7
5	A native oxide high- κ gate dielectric for two-dimensional electronics. Nature Electronics, 2020, 3, 473-478.	26.0	141
6	Probing Nonequilibrium Dynamics of Photoexcited Polarons on a Metal-Oxide Surface with Atomic Precision. Physical Review Letters, 2020, 124, 206801.	7.8	37
7	Finite-temperature violation of the anomalous transverse Wiedemann-Franz law. Science Advances, 2020, 6, eaaz3522.	10.3	50
8	Band inversion and topology of the bulk electronic structure in $FeSe_{1-x}S_x$. Physical Review B, 2020, 101, .	3.6	15
9	Exchange bias and quantum anomalous Hall effect in the MnBi ₂ Te ₄ /CrI ₃ heterostructure. Science Advances, 2020, 6, eaaz0948.	10.3	89
10	Visualizing coexisting surface states in the weak and crystalline topological insulator Bi ₂ Te ₃ . Nature Materials, 2020, 19, 610-616.	27.5	23
11	Exploiting Two-Dimensional Bi ₂ O ₂ Se for Trace Oxygen Detection. Angewandte Chemie - International Edition, 2020, 59, 17938-17943.	13.8	31
12	Observation of charge to spin conversion in Weyl semimetal WT_2Te at room temperature. Physical Review Research, 2020, 2, .	3.6	15
13	Surface conductivity in antiferromagnetic semiconductor CrSb ₂ . Physical Review Research, 2020, 2, .	3.6	1
14	Photoexcitation Induced Quantum Dynamics of Charge Density Wave and Emergence of a Collective Mode in TaS_2 . Nano Letters, 2019, 19, 6027-6034.	9.1	31
15	Resolving the topological classification of bismuth with topological defects. Science Advances, 2019, 5, eaax6996.	10.3	59
16	Large spin-orbit torque efficiency enhanced by magnetic structure of collinear antiferromagnet IrMn. Science Advances, 2019, 5, eaau6696.	10.3	70
17	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
18	Low Residual Carrier Concentration and High Mobility in 2D Semiconducting Bi ₂ O ₂ Se. Nano Letters, 2019, 19, 197-202.	9.1	95

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19	Two-dimensional ferroelectric topological insulators in functionalized atomically thin bismuth layers. <i>Physical Review B</i> , 2018, 97, .	3.2	37
20	Abnormal phase transition between two-dimensional high-density liquid crystal and low-density crystalline solid phases. <i>Nature Communications</i> , 2018, 9, 198.	12.8	9
21	Electronic structures and unusually robust bandgap in an ultrahigh-mobility layered oxide semiconductor, Bi ₂ O ₂ Se. <i>Science Advances</i> , 2018, 4, eaat8355.	10.3	167
22	Self-modulation doping effect in the high-mobility layered semiconductor $\text{Bi}_2\text{O}_2\text{Se}$. <i>Physical Review B</i> , 2018, 97, .	3.3	63
23	Direct imaging of surface states hidden in the third layer of Si (111)-7 \times 7 surface by <i>ipz</i> -wave tip. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	6
24	New Pathway for Hot Electron Relaxation in Two-Dimensional Heterostructures. <i>Nano Letters</i> , 2018, 18, 6057-6063.	9.1	49
25	Tunable quantum order in bilayer Bi ₂ Te ₃ : Stacking dependent quantum spin Hall states. <i>Applied Physics Letters</i> , 2018, 112, 243103.	3.3	6
26	Fe on Sb(111): Potential Two-Dimensional Ferromagnetic Superstructures. <i>ACS Nano</i> , 2017, 11, 2143-2149.	14.6	9
27	Interlayer State-Coupling Dependent Ultrafast Charge Transfer in MoS ₂ /WS ₂ Bilayers. <i>Advanced Science</i> , 2017, 4, 1700086.	11.2	87
28	Intrinsic valley polarization of magnetic VSe ₂ monolayers. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 255501.	1.8	73
29	An Iron-Porphyrin Complex with Large Easy-Axis Magnetic Anisotropy on Metal Substrate. <i>ACS Nano</i> , 2017, 11, 11402-11408.	14.6	20
30	Prediction of silicon-based room temperature quantum spin Hall insulator via orbital mixing. <i>Europhysics Letters</i> , 2016, 113, 67003.	2.0	6
31	Nonlinear Rashba spin splitting in transition metal dichalcogenide monolayers. <i>Nanoscale</i> , 2016, 8, 17854-17860.	5.6	60
32	Magnetic Dirac fermions and Chern insulator supported on pristine silicon surface. <i>Physical Review B</i> , 2016, 94, .	3.2	18
33	Tunable magnetic moment and potential half-metal behavior of Fe-nanostructure-embedded graphene perforation. <i>Carbon</i> , 2016, 107, 268-272.	10.3	6
34	Tuning magnetic splitting of zigzag graphene nanoribbons by edge functionalization with hydroxyl groups. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	10
35	Ordered and Reversible Hydrogenation of Silicene. <i>Physical Review Letters</i> , 2015, 114, 126101.	7.8	127
36	Two-dimensional silicon-carbon hybrids with a honeycomb lattice: New family for two-dimensional photovoltaic materials. <i>Science China: Physics, Mechanics and Astronomy</i> , 2015, 58, 1.	5.1	13

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37	From Silicene to Half-Silicane by Hydrogenation. ACS Nano, 2015, 9, 11192-11199.	14.6	97
38	Multilayered silicene: the bottom-up approach for a weakly relaxed Si(111) with Dirac surface states. Nanoscale, 2015, 7, 15880-15885.	5.6	28
39	Stacking-dependent electronic structure of bilayer silicene. Applied Physics Letters, 2014, 104, .	3.3	70
40	Kondo Effect Mediated Topological Protection: Co on Sb(111). ACS Nano, 2014, 8, 11576-11582.	14.6	5