Bin Cui

List of Publications by Year
in descending order

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44 papers	1,072 citations	471371 17 h-index	414303 32 g-index
46 all docs	46 docs citations	46 times ranked	1746 citing authors

#	Article	IF	Citations
1	Electrical Manipulation of Orbital Occupancy and Magnetic Anisotropy in Manganites. Advanced Functional Materials, 2015, 25, 864-870.	7.8	105
2	Theoretical Discovery of a Superconducting Two-Dimensional Metalâ€“Organic Framework. Nano Letters, 2017, 17, 6166-6170.	4.5	86
3	Magnetoelectric Coupling Induced by Interfacial Orbital Reconstruction. Advanced Materials, 2015, 27, 6651-6656.	11.1	81
4	Reversible Ferromagnetic Phase Transition in Electrodeâ€Gated Manganites. Advanced Functional Materials, 2014, 24, 7233-7240.	7.8	76
5	Direct imaging of structural changes induced by ionic liquid gating leading to engineered three-dimensional meso-structures. Nature Communications, 2018, 9, 3055.	5.8	52
6	Manipulation of Electric Field Effect by Orbital Switch. Advanced Functional Materials, 2016, 26, 753-759.	7.8	49
7	Realization of Lieb lattice in covalent-organic frameworks with tunable topology and magnetism. Nature Communications, 2020, 11, 66.	5.8	49
8	Electric Field Control of Phase Transition and Tunable Resistive Switching in SrFeO_{2.5}. ACS Applied Materials & Interfaces, 2019, 11, 6581-6588.	4.0	45
9	Role of Oxygen Ion Migration in the Electrical Control of Magnetism in Pt/Co/Ni/HfO₂ Films. Journal of Physical Chemistry C, 2016, 120, 1633-1639.	1.5	41
10	Strong Electrical Manipulation of Spinâ€“Orbit Torque in Ferromagnetic Heterostructures. Advanced Electronic Materials, 2016, 2, 1600219.	2.6	37
11	Charge Transfer and Orbital Reconstruction in Strain-Engineered (La,Sr)MnO₃/LaNiO₃ Heterostructures. ACS Applied Materials & Interfaces, 2015, 7, 17700-17706.	4.0	35
12	The Role of Ionic Liquid Breakdown in the Electrochemical Metallization of VO₂: An NMR Study of Gating Mechanisms and VO₂ Reduction. Journal of the American Chemical Society, 2018, 140, 16685-16696.	6.6	32
13	Design of a noble-metal-free direct Z-scheme photocatalyst for overall water splitting based on a SnC/SnSSe van der Waals heterostructure. Physical Chemistry Chemical Physics, 2021, 23, 21641-21651.	1.3	30
14	Gated electronic currents modulation and designs of logic gates with single molecular field effect transistors. Applied Physics Letters, 2011, 99, .	1.5	26
15	The electronic transport properties of zigzag silicene nanoribbon slices with edge hydrogenation and oxidation. Physical Chemistry Chemical Physics, 2016, 18, 11513-11519.	1.3	26
16	A bifunctional GeC/SnSSe heterostructure for highly efficient photocatalysts and photovoltaic devices. Nanoscale, 2022, 14, 7292-7302.	2.8	24
17	Observation of Optically Addressable Nonvolatile Memory in VO₂ at Room Temperature. Advanced Electronic Materials, 2021, 7, 2001142.	2.6	20
18	Chemically Functionalized Penta-stanene Monolayers for Light Harvesting with High Carrier Mobility. Journal of Physical Chemistry C, 2018, 122, 21763-21769.	1.5	18

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19	Exotic magnetism in As-doped Î±/Î²-In₂Se₃ monolayers with tunable anisotropic carrier mobility. Physical Chemistry Chemical Physics, 2019, 21, 19234-19241.	1.3	18
20	Edge hydrogenation-induced spin-filtering and negative differential resistance effects in zigzag silicene nanoribbons with line defects. RSC Advances, 2017, 7, 25244-25252.	1.7	17
21	Novel Stable 3D Stainless Steelâ€Based Electrodes for Efficient Water Splitting. Advanced Materials Interfaces, 2019, 6, 1900774.	1.9	16
22	Fully spin-polarized open and closed nodal lines in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math> -borophene by magnetic proximity effect. Physical Review B, 2019, 100, .	1.1	16
23	Synergistic effect of incorporating intra- and inter-molecular charge transfer in nonfullerene acceptor molecules for highly-efficient organic solar cells. Journal of Materials Chemistry A, 2021, 9, 16834-16840.	5.2	15
24	Synthesis and Morphology of Semifluorinated Polymeric Ionic Liquids. Macromolecules, 2018, 51, 8620-8628.	2.2	13
25	Gating effects of conductive polymeric ionic liquids. Journal of Materials Chemistry C, 2018, 6, 8242-8250.	2.7	13
26	Photonâ€Gated Spin Transistor. Advanced Materials, 2017, 29, 1604052.	11.1	12
27	Influence of the Length of the Donorâ€“Acceptor Bridge on Thermally Activated Delayed Fluorescence. Journal of Physical Chemistry Letters, 2019, 10, 302-308.	2.1	12
28	Enhanced rectifying performance by asymmetrical gate voltage for BDC20 molecular devices. RSC Advances, 2014, 4, 16537.	1.7	11
29	Novel 2D B₂S₃ as a metal-free photocatalyst for water splitting. Nanotechnology, 2021, 32, 225401.	1.3	11
30	Electrical Control of Magnetism through Proton Migration in Fe₃O₄/Graphene Heterostructure. Nano Letters, 2022, 22, 4392-4399.	4.5	11
31	Creation of half-metallic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>f</mml:mi></mml:math> -orbital Dirac fermion with superlight elements in orbital-designed molecular lattice. Physical Review B, 2017, 96, .	1.1	10
32	Efficient and Long-Lasting Current Rectification by Laminated Yet Separated, Oppositely Charged Monolayers. ACS Applied Electronic Materials, 2019, 1, 2295-2300.	2.0	9
33	Electrical control of antiferromagnetic metal up to 15 nm. Science China: Physics, Mechanics and Astronomy, 2016, 59, 1.	2.0	8
34	Effect of different electrodes on Fano resonance in molecular devices. Applied Physics Letters, 2012, 100, 023303.	1.5	7
35	Negative differential resistance in molecular devices: the role of molecule-electrode coupling. Science China: Physics, Mechanics and Astronomy, 2011, 54, 1455-1460.	2.0	6
36	Electronic transport properties of a dithienylethene-based polymer with different metallic contacts. RSC Advances, 2014, 4, 40941-40950.	1.7	6

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37	Self-trapping effect on the excitonic and polaronic properties of a single-layer 2D metal-halide perovskite. 2D Materials, 2020, 7, 035020.	2.0	6
38	Giant and robust intrinsic spin Hall effects in metal dihydrides: A first-principles prediction. Physical Review B, 2021, 103, .	1.1	6
39	Design of boron vacancy enhanced spin filtering graphene/BN zigzag nanoribbon heterojunctions. RSC Advances, 2017, 7, 7368-7374.	1.7	4
40	Ionic Liquid Gate-Induced Modifications of Step Edges at SrCoO_{2.5} Surfaces. ACS Nano, 2020, 14, 8562-8569.	7.3	4
41	Field-free switching of magnetization induced by spinâ€“orbit torque in Pt/CoGd/Pt thin film. Applied Physics Letters, 2022, 120, .	1.5	4
42	Electric field control of ordered oxygen vacancy planes and antiferromagnetic structures in strontium cobaltite. Journal of Physics Condensed Matter, 2020, 32, 344001.	0.7	3
43	Tunable Dirac states in doping B₂S₃ monolayer. Physical Chemistry Chemical Physics, 2022, , .	1.3	1
44	Observation on Volatile and Nonvolatile Magnetic Reversions Mediated by Electric Current in Highly Conductive Gd₃Fe₅O₁₂. Journal of Physical Chemistry C, 2022, 126, 7660-7666.	1.5	1