

Bin Cui

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2336535/publications.pdf>

Version: 2024-02-01

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	Tunable Dirac states in doping B ₂ S ₃ monolayer. Physical Chemistry Chemical Physics, 2022, , .	1.3	1
2	A bifunctional GeC/SnS ₂ heterostructure for highly efficient photocatalysts and photovoltaic devices. Nanoscale, 2022, 14, 7292-7302.	2.8	24
3	Observation on Volatile and Nonvolatile Magnetic Reversions Mediated by Electric Current in Highly Conductive Gd ₃ Fe ₅ O ₁₂ . Journal of Physical Chemistry C, 2022, 126, 7660-7666.	1.5	1
4	Electrical Control of Magnetism through Proton Migration in Fe ₃ O ₄ /Graphene Heterostructure. Nano Letters, 2022, 22, 4392-4399.	4.5	11
5	Field-free switching of magnetization induced by spin-orbit torque in Pt/CoGd/Pt thin film. Applied Physics Letters, 2022, 120, .	1.5	4
6	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
7	Design of a noble-metal-free direct Z-scheme photocatalyst for overall water splitting based on a SnC/SnS ₂ van der Waals heterostructure. Physical Chemistry Chemical Physics, 2021, 23, 21641-21651.	1.3	30
8	Giant and robust intrinsic spin Hall effects in metal dihydrides: A first-principles prediction. Physical Review B, 2021, 103, .	1.1	6
9	Novel 2D B ₂ S ₃ as a metal-free photocatalyst for water splitting. Nanotechnology, 2021, 32, 225401.	1.3	11
10	Observation of Optically Addressable Nonvolatile Memory in VO ₂ at Room Temperature. Advanced Electronic Materials, 2021, 7, 2001142.	2.6	20
11	Realization of Lieb lattice in covalent-organic frameworks with tunable topology and magnetism. Nature Communications, 2020, 11, 66.	5.8	49
12	Ionic Liquid Gate-Induced Modifications of Step Edges at SrCoO _{2.5} Surfaces. ACS Nano, 2020, 14, 8562-8569.	7.3	4
13	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
14	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
15	Exotic magnetism in As-doped $\hat{\pm}/\hat{2}$ -In ₂ Se ₃ monolayers with tunable anisotropic carrier mobility. Physical Chemistry Chemical Physics, 2019, 21, 19234-19241.	1.3	18
16	Novel Stable 3D Stainless Steel-Based Electrodes for Efficient Water Splitting. Advanced Materials Interfaces, 2019, 6, 1900774.	1.9	16
17	Efficient and Long-Lasting Current Rectification by Laminated Yet Separated, Oppositely Charged Monolayers. ACS Applied Electronic Materials, 2019, 1, 2295-2300.	2.0	9
18	Fully spin-polarized open and closed nodal lines in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \hat{1}^2 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -borophene by magnetic proximity effect. Physical Review B, 2019, 100, .	1.1	16

#	ARTICLE	IF	CITATIONS
19	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
20	Influence of the Length of the Donor–Acceptor Bridge on Thermally Activated Delayed Fluorescence. Journal of Physical Chemistry Letters, 2019, 10, 302-308.	2.1	12
21	The Role of Ionic Liquid Breakdown in the Electrochemical Metallization of VO ₂ : An NMR Study of Gating Mechanisms and VO ₂ Reduction. Journal of the American Chemical Society, 2018, 140, 16685-16696.	6.6	32
22	Synthesis and Morphology of Semifluorinated Polymeric Ionic Liquids. Macromolecules, 2018, 51, 8620-8628.	2.2	13
23	Chemically Functionalized Penta-stanene Monolayers for Light Harvesting with High Carrier Mobility. Journal of Physical Chemistry C, 2018, 122, 21763-21769.	1.5	18
24	Gating effects of conductive polymeric ionic liquids. Journal of Materials Chemistry C, 2018, 6, 8242-8250.	2.7	13
25	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
26	Design of boron vacancy enhanced spin filtering graphene/BN zigzag nanoribbon heterojunctions. RSC Advances, 2017, 7, 7368-7374.	1.7	4
27	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
28	Creation of half-metallic π -orbital Dirac fermion with superlight elements in orbital-designed molecular lattice. Physical Review B, 2017, 96, .	1.1	10
29	Theoretical Discovery of a Superconducting Two-Dimensional Metal–Organic Framework. Nano Letters, 2017, 17, 6166-6170.	4.5	86
30	Photon–Gated Spin Transistor. Advanced Materials, 2017, 29, 1604052.	11.1	12
31	Electrical control of antiferromagnetic metal up to 15 nm. Science China: Physics, Mechanics and Astronomy, 2016, 59, 1.	2.0	8
32	Manipulation of Electric Field Effect by Orbital Switch. Advanced Functional Materials, 2016, 26, 753-759.	7.8	49
33	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
34	Strong Electrical Manipulation of Spin–Orbit Torque in Ferromagnetic Heterostructures. Advanced Electronic Materials, 2016, 2, 1600219.	2.6	37
35	Role of Oxygen Ion Migration in the Electrical Control of Magnetism in Pt/Co/Ni/HfO ₂ Films. Journal of Physical Chemistry C, 2016, 120, 1633-1639.	1.5	41
36	Electrical Manipulation of Orbital Occupancy and Magnetic Anisotropy in Manganites. Advanced Functional Materials, 2015, 25, 864-870.	7.8	105

#	ARTICLE	IF	CITATIONS
37	Magnetoelectric Coupling Induced by Interfacial Orbital Reconstruction. <i>Advanced Materials</i> , 2015, 27, 6651-6656.	11.1	81
38	Charge Transfer and Orbital Reconstruction in Strain-Engineered (La,Sr)MnO ₃ /LaNiO ₃ Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 17700-17706.	4.0	35
39	Enhanced rectifying performance by asymmetrical gate voltage for BDC20 molecular devices. <i>RSC Advances</i> , 2014, 4, 16537.	1.7	11
40	Reversible Ferromagnetic Phase Transition in Electrode-Gated Manganites. <i>Advanced Functional Materials</i> , 2014, 24, 7233-7240.	7.8	76
41	Electronic transport properties of a dithienylethene-based polymer with different metallic contacts. <i>RSC Advances</i> , 2014, 4, 40941-40950.	1.7	6
42	Effect of different electrodes on Fano resonance in molecular devices. <i>Applied Physics Letters</i> , 2012, 100, 023303.	1.5	7
43	Negative differential resistance in molecular devices: the role of molecule-electrode coupling. <i>Science China: Physics, Mechanics and Astronomy</i> , 2011, 54, 1455-1460.	2.0	6
44	Gated electronic currents modulation and designs of logic gates with single molecular field effect transistors. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	26