Zhen-Hua Zhang

List of Publications by Year
in descending order

34 papers	610 citations	623188 14 h-index	610482 24 g-index
34 all docs	34 docs citations	34 times ranked	419 citing authors

#	Article	IF	Citations
1	Multifunctional spintronic device based on zigzag SiC nanoribbon heterojunction via edge asymmetric dual-hydrogenation. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 138, 115098.	1.3	4
2	Giant rectification of ferromagnetic zigzag SiC nanoribbons connecting anthradithiophene molecules. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 078501.	0.2	1
3	Strain engineering of electronic structure and mechanical switch device for edge modified Net-Y nanoribbons. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 046102.	0.2	3
4	Edge chemistry and tensile strain effects on the magnetic properties of 1D VSe₂ structures. Journal of Materials Chemistry C, 2021, 9, 12904-12919.	2.7	10
5	Magneto-electronic property in zigzag phosphorene nanoribbons doped with transition metal atom. Wuli Xuebao/Acta Physica Sinica, 2021, 70, 056101.	0.2	1
6	Gate-controlled reversible rectifying behavior investigated in a two-dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> diode. Physical Review B, 2021, 104, .	1.1	64
7	Controlling the electronic transport property of a molecular organic device by the heavy metal atomic manipulation. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 116, 113732.	1.3	6
8	Geometry, induced magnetism and modified electronic behaviors for magnetic atom adsorption on antimonene nanotubes. Physical Chemistry Chemical Physics, 2020, 22, 23665-23677.	1.3	3
9	High-performance 5.1 nm in-plane Janus WSeTe Schottky barrier field effect transistors. Nanoscale, 2020, 12, 21750-21756.	2.8	62
10	Electronic and transport properties of zigzag phosphorene nanoribbons with nonmetallic atom terminations. RSC Advances, 2020, 10, 1400-1409.	1.7	7
11	Designing bifuncitonal molecular devices with a metalloporphyrin dimer. Physical Chemistry Chemical Physics, 2020, 22, 4080-4085.	1.3	5
12	Magneto-electronics, transport properties, and tuning effects of arsenene armchair nanotubes doped with transition metal atoms. Nanotechnology, 2020, 31, 315206.	1.3	15
13	Magneto-electronic properties, carrier mobility and strain effects of InSe nanoribbon. Journal of Physics Condensed Matter, 2020, 32, 015303.	0.7	3
14	Stable C2N/h-BN van der Waals heterostructure: flexibly tunable electronic and optic properties. Journal of Physics Condensed Matter, 2020, 32, 475001.	0.7	4
15	Structural stability, magneto-electronic properties, and tuning effects for transition metal-doped net-Y nanoribbons. Journal Physics D: Applied Physics, 2020, 53, 485001.	1.3	1
16	Electronic and transport properties and physical field coupling effects for net-Y nanoribbons. Nanotechnology, 2019, 30, 485703.	1.3	10
17	Electronic structure, strain effects and transport property of armchair graphene nanoribbon with variously possible edge oxidation. Journal Physics D: Applied Physics, 2019, 52, 475301.	1.3	12
18	Strain-induced rich magnetic phase transitions and enhancement of magnetic stability for O-terminated h-BN nanoribbons. Journal of Physics Condensed Matter, 2019, 31, 145301.	0.7	5

#	Article	IF	Citations
19	Metal doped armchair graphene nanoribbons: electronic structure, carrier mobility and device properties. Physical Chemistry Chemical Physics, 2019, 21, 1830-1840.	1.3	30
20	O-Vacancy-line defective Ti₂CO₂ nanoribbons: novel magnetism, tunable carrier mobility, and magnetic device behaviors. Journal of Materials Chemistry C, 2019, 7, 7745-7759.	2.7	63
21	Spin-dependent carrier mobility and its gate-voltage modifying effects for functionalized single walled black phosphorus tubes. Nanotechnology, 2019, 30, 145201.	1.3	21
22	Structure stability, magneto-electronic properties, and modulation effects of Fe₃GeTe₂ nanoribbons. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 208502.	0.2	3
23	Magneto-electronic properties of InSe nanoribbons terminated with non-metallic atoms and its strain modulation. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 198503.	0.2	2
24	Structural and magneto-electronic properties of transition metal doped phosphorus nanotubes. Physical Chemistry Chemical Physics, 2018, 20, 13574-13579.	1.3	14
25	Half metal phase in the zigzag phosphorene nanoribbon. Scientific Reports, 2018, 8, 2932.	1.6	31
26	Phagraphene nanoribbons: half-metallicity and magnetic phase transition by functional groups and electric field. Journal of Physics Condensed Matter, 2018, 30, 445802.	0.7	4
27	Electronic structure and magnetic properties of penta-graphene nanoribbons. Physical Chemistry Chemical Physics, 2017, 19, 9528-9536.	1.3	65
28	Structural and magneto-electronic properties and electric field-mediated effects for transition metal-terminated zigzag h-BN nanoribbons. Physical Chemistry Chemical Physics, 2017, 19, 4469-4477.	1.3	17
29	BN nanoflake quantum-dot arrays: structural stability, and electronic and half-metallic properties. Physical Chemistry Chemical Physics, 2017, 19, 20137-20146.	1.3	9
30	Symmetry-dependent spin transport properties of a single phenalenyl or pyrene molecular device. Carbon, 2017, 122, 687-693.	5.4	37
31	Insight into negative differential resistance in polyphenylene molecular device with graphene electrodes. Organic Electronics, 2016, 33, 1-8.	1.4	15
32	Reversible switching in gold-atomâ€“organic-molecule complex induced by reversible bond formation. Organic Electronics, 2015, 18, 101-106.	1.4	29
33	Magneto-electronic properties of graphene nanoribbons with various edge structures passivated by phosphorus and hydrogen atoms. Physical Chemistry Chemical Physics, 2015, 17, 24020-24028.	1.3	14
34	Magnetic structure and magnetic transport characteristics of nanostructures based on armchair-edged graphene nanoribbons. Journal of Materials Chemistry C, 2015, 3, 9657-9663.	2.7	40