Yan-Dong Guo

List of Publications by Year
in descending order

36 papers	318 citations	840776 11 h-index	940533 16 g-index
36 all docs	36 docs citations	36 times ranked	362 citing authors

#	Article	IF	Citations
1	Armchair graphene nanoribbon-based spin caloritronics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 426, 127892.	2.1	5
2	Symmetry-dependent electronic structure transition in graphether nanoribbons. AIP Advances, 2022, 12, .	1.3	2
3	Oddâ€"even effect and bandgap modulation by C-H doping in armchair nanoribbons of monolayer WS<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e710" altimg="si2.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>. Solid State Communications, 2022, 347, 114719.	1.9	0
4	Metallic-semiconducting transition and spin polarized-unpolarized transition in a single molecule with negative Poisson's ratio. Physical Chemistry Chemical Physics, 2022, , .	2.8	0
5	Large negative differential resistance in triangular and square cyclopropyllithium derivative molecule. Physica B: Condensed Matter, 2022, , 413989.	2.7	0
6	A robust spin-dependent Seebeck effect and remarkable spin thermoelectric performance in graphether nanoribbons. Nanoscale, 2022, 14, 10033-10040.	5.6	5
7	Metallic two-dimensional BP₂: a high-performance electrode material for Li- and Na-ion batteries. Physical Chemistry Chemical Physics, 2021, 23, 4386-4393.	2.8	13
8	Graphether: a reversible and high-capacity anode material for sodium-ion batteries with ultrafast directional Na-ion diffusion. Physical Chemistry Chemical Physics, 2021, 23, 12371-12375.	2.8	7
9	First-Principles Studies of the Tunneling Properties through Ferroelectric/Ferromagnetic van der Waals Heterostructures. Journal of Physical Chemistry C, 2021, 125, 14438-14445.	3.1	3
10	Negative differential resistance in all-benzene molecule of trefoil knot. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 410, 127539.	2.1	0
11	Switchable Interlayer Magnetic Coupling of Bilayer CrI3. Nanomaterials, 2021, 11, 2509.	4.1	4
12	Electrically controlled spin reversal and spin polarization of electronic transport in nanoporous graphene nanoribbons. Physical Chemistry Chemical Physics, 2021, 23, 20702-20708.	2.8	7
13	The spin-dependent transport properties of endohedral transition-metal-fullerene X@C66H4 (X=Fe, Co,) Tj ETQq1 1 0.784314 rgBT /Ov	2.1	1
14	Electrically precise control of the spin polarization of electronic transport at the single-molecule level. Physical Chemistry Chemical Physics, 2020, 22, 17229-17235.	2.8	11
15	Electrical control of spin polarization of transmission in pure-carbon systems of helical graphene nanoribbons. Journal of Applied Physics, 2020, 128, .	2.5	11
16	Multiple striking negative differential resistance in a polyyne wire doped with an organometallic fragment. Journal of Applied Physics, 2020, 128, .	2.5	3
17	Squeezed metallic droplet with tunable Kubo gap and charge injection in transition metal dichalcogenides. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6362-6369.	7.1	33
18	Electrically controllable magneto-optic effects in a two-dimensional hexagonal organometallic lattice. Physical Review B, 2020, 101, .	3.2	2

#	Article	IF	Citations
19	Edge-modulated dual spin-filter effect in zigzag-shaped buckling Ag₂S nanoribbons. Physical Chemistry Chemical Physics, 2019, 21, 15623-15629.	2.8	6
20	A metal-semiconductor transition in helical graphene nanoribbon. Journal of Applied Physics, 2019, 126, 144303.	2.5	9
21	A metal-semiconductor transition triggered by atomically flat zigzag edge in monolayer transition-metal dichalcogenides. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 1636-1641.	2.1	2
22	Electronic structures and transport properties of SnSâ€"SnSe nanoribbon lateral heterostructures. Physical Chemistry Chemical Physics, 2019, 21, 9296-9301.	2.8	8
23	Edge modification induced giant rectification effect in armchair C2N-h2D nanoribbons. Solid State Communications, 2019, 289, 61-66.	1.9	2
24	Edge defect switched dual spin filter in zigzag hexagonal boron nitride nanoribbons. Physical Chemistry Chemical Physics, 2018, 20, 9241-9247.	2.8	11
25	Edge morphology induced rectifier diode effect in C₃N nanoribbon. Physical Chemistry Chemical Physics, 2018, 20, 28759-28766.	2.8	7
26	Geometric symmetry modulated spin polarization of electron transport in graphene-like zigzag FeB2 nanoribbons. European Physical Journal B, 2018, 91, 1.	1.5	2
27	A progressive metalâ€"semiconductor transition in two-faced Janus monolayer transition-metal chalcogenides. Physical Chemistry Chemical Physics, 2018, 20, 21113-21118.	2.8	16
28	Multiple spin-resolved negative differential resistance and electrically controlled spin-polarization in transition metal-doped [6]cycloparaphenylenes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2763-2768.	2.1	7
29	Negative differential resistance and bias-modulated metal-to-insulator transition in zigzag C2N-h2D nanoribbon. Scientific Reports, 2017, 7, 43922.	3.3	6
30	Electronic transport properties in [n]cycloparaphenylenes molecular devices. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 2107-2111.	2.1	12
31	Hydrogenated carbon nanotube-based spin caloritronics. Physical Chemistry Chemical Physics, 2017, 19, 21507-21513.	2.8	14
32	The spin-dependent transport of transition metal encapsulated B₄₀fullerene. RSC Advances, 2016, 6, 40155-40161.	3.6	27
33	U-shaped relationship between current and pitch in helicene molecules. Scientific Reports, 2015, 5, 16731.	3.3	24
34	Conformational change-induced switching behavior in pure-carbon systems. RSC Advances, 2013, 3, 16672.	3.6	17
35	Electrical control of the spin polarization of a current in â€œpure-carbonâ€•systems based on partially hydrogenated graphene nanoribbon. Journal of Applied Physics, 2013, 113, .	2.5	14
36	Computational Investigation of DNA Detection Using Single-Electron Transistor-Based Nanopore. Journal of Physical Chemistry C, 2012, 116, 21609-21614.	3.1	27