X Q Deng

List of Publications by Year
in descending order

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35 papers	950 citations	361413 20 h-index	434195 31 g-index
35 all docs	35 docs citations	35 times ranked	621 citing authors

#	Article	IF	Citations
1	Spin filter effects in zigzag-edge graphene nanoribbons with symmetric and asymmetric edge hydrogenations. Carbon, 2014, 66, 646-653.	10.3	108
2	Effect of electrode twisting on electronic transport properties of atomic carbon wires. Carbon, 2016, 98, 179-186.	10.3	68
3	Electrode metal dependence of the rectifying performance for molecular devices: A density functional study. Applied Physics Letters, 2009, 95, 103113.	3.3	67
4	Rectifying behaviors induced by BN-doping in trigonal graphene with zigzag edges. Applied Physics Letters, 2012, 100, .	3.3	57
5	A theoretical investigation on the possible improvement of spin-filter effects by an electric field for a zigzag graphene nanoribbon with a line defect. Carbon, 2013, 60, 94-101.	10.3	56
6	Rectifying performance of D-Ï€-A molecules based on cyanovinyl aniline derivatives. Applied Physics Letters, 2010, 97, 203104.	3.3	47
7	Electronic structures and transport properties of armchair graphene nanoribbons by ordered doping. Organic Electronics, 2015, 18, 135-142.	2.6	42
8	Examinations into the contaminant-induced transport instabilities in a molecular device. Applied Physics Letters, 2010, 97, 183105.	3.3	40
9	Enormously Enhanced Rectifying Performances by Modification of Carbon Chains for Dâ^Ïƒâ€“A Molecular Devices. Journal of Physical Chemistry C, 2012, 116, 12900-12905.	3.1	34
10	The design of spin filter junction in zigzag graphene nanoribbons with asymmetric edge hydrogenation. Organic Electronics, 2013, 14, 3240-3248.	2.6	33
11	Magnetism and magnetic transport properties of the polycrystalline graphene nanoribbon heterojunctions. Carbon, 2016, 98, 204-212.	10.3	32
12	Electrode conformation-induced negative differential resistance and rectifying performance in a molecular device. Applied Physics Letters, 2009, 95, 163109.	3.3	31
13	Tuning spin polarization and spin transport of zigzag graphene nanoribbons by line defects. Physical Chemistry Chemical Physics, 2015, 17, 638-643.	2.8	29
14	End-group effects on negative differential resistance and rectifying performance of a polyyne-based molecular wire. Applied Physics Letters, 2010, 97, .	3.3	27
15	Conduction switching behaviors of a small molecular device. Journal of Applied Physics, 2010, 107, 063704.	2.5	24
16	Electronic transport of unimolecular devices with a group coadsorbed on one electrode surface: A density functional study. Journal of Chemical Physics, 2009, 130, 184703.	3.0	23
17	Altering regularities of electronic transport properties in twisted graphene nanoribbons. Applied Physics Letters, 2012, 101, .	3.3	23
18	The design of bipolar spin semiconductor based on zigzagâ€“edge graphene nanoribbons. Carbon, 2015, 94, 317-325.	10.3	23

#	Article	IF	Citations
19	Electronic and optical properties and device applications for antimonene/WS2 van der Waals heterostructure. Applied Surface Science, 2022, 578, 151844.	6.1	23
20	Spin-filtering and rectifying effects for Al-doped zigzag-edged silicene nanoribbons with asymmetric edge hydrogenation. Organic Electronics, 2016, 32, 41-46.	2.6	22
21	Electronic and spin transport properties in zigzag silicene nanoribbons with edge protrusions. RSC Advances, 2014, 4, 58941-58948.	3.6	20
22	Modulation of the spin transport properties of the iron-phthalocyanine molecular junction by carbon chains with different connection sites. Organic Electronics, 2016, 35, 1-5.	2.6	20
23	The design of bipolar spin filtering junction in zigzag silicene nanoribbons. Organic Electronics, 2016, 37, 245-251.	2.6	15
24	Tunable electronic and optical properties of SnC/BAs heterostructure by external electric field and vertical strain. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126150.	2.1	15
25	Vertical strain and twist induced tunability on electronic and optical properties of Janus HfSSe/SnC van der Waals heterostructure. Applied Surface Science, 2022, 598, 153756.	6.1	14
26	Edge chemistry and tensile strain effects on the magnetic properties of 1D VSe₂ structures. Journal of Materials Chemistry C, 2021, 9, 12904-12919.	5.5	10
27	Magnetic structure and magnetic transport properties of armchair arsenene nanoribbons. Solid State Communications, 2019, 297, 27-33.	1.9	9
28	Spin transport investigation of two type silicene nanoribbons heterostructure. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 47-53.	2.1	9
29	Modulation of the magnetic properties in zigzag-edge graphene nanoribbons by connection sites. Organic Electronics, 2017, 41, 376-383.	2.6	7
30	Tunable electronic and optical properties of a BAs/As heterostructure by vertical strain and external electric field. RSC Advances, 2021, 11, 21824-21831.	3.6	5
31	Tunable electronic and optical properties of InSe/arsenene heterostructure by vertical strain and electric field. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 405, 127427.	2.1	5
32	The electronic transport properties for a single-wall ZnO nanotube with different coupling interfaces. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 52, 21-26.	2.7	4
33	Electronic and thermal spin effect of molecular nanowires between graphene electrodes. RSC Advances, 2018, 8, 34182-34191.	3.6	4
34	The effect of different hydrogen terminations on the structural and electronic properties in the triangular array graphene nanomeshes. RSC Advances, 2017, 7, 8927-8935.	3.6	3
35	Improving the bias range for spin-filtering by selecting proper electrode materials. RSC Advances, 2015, 5, 15812-15817.	3.6	1