

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
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all docs

35
docs citations

35
times ranked

621
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic and optical properties and device applications for antimonene/WS ₂ van der Waals heterostructure. <i>Applied Surface Science</i> , 2022, 578, 151844.	6.1	23
2	Vertical strain and twist induced tunability on electronic and optical properties of Janus HfSSe/SnC van der Waals heterostructure. <i>Applied Surface Science</i> , 2022, 598, 153756.	6.1	14
3	Edge chemistry and tensile strain effects on the magnetic properties of 1D VSe ₂ structures. <i>Journal of Materials Chemistry C</i> , 2021, 9, 12904-12919.	5.5	10
4	Tunable electronic and optical properties of a BAs/As heterostructure by vertical strain and external electric field. <i>RSC Advances</i> , 2021, 11, 21824-21831.	3.6	5
5	Tunable electronic and optical properties of InSe/arsenene heterostructure by vertical strain and electric field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 405, 127427.	2.1	5
6	Tunable electronic and optical properties of SnC/BAs heterostructure by external electric field and vertical strain. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126150.	2.1	15
7	Magnetic structure and magnetic transport properties of armchair arsenene nanoribbons. <i>Solid State Communications</i> , 2019, 297, 27-33.	1.9	9
8	Spin transport investigation of two type silicene nanoribbons heterostructure. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 47-53.	2.1	9
9	Electronic and thermal spin effect of molecular nanowires between graphene electrodes. <i>RSC Advances</i> , 2018, 8, 34182-34191.	3.6	4
10	The effect of different hydrogen terminations on the structural and electronic properties in the triangular array graphene nanomeshes. <i>RSC Advances</i> , 2017, 7, 8927-8935.	3.6	3
11	Modulation of the magnetic properties in zigzag-edge graphene nanoribbons by connection sites. <i>Organic Electronics</i> , 2017, 41, 376-383.	2.6	7
12	Modulation of the spin transport properties of the iron-phthalocyanine molecular junction by carbon chains with different connection sites. <i>Organic Electronics</i> , 2016, 35, 1-5.	2.6	20
13	The design of bipolar spin filtering junction in zigzag silicene nanoribbons. <i>Organic Electronics</i> , 2016, 37, 245-251.	2.6	15
14	Spin-filtering and rectifying effects for Al-doped zigzag-edged silicene nanoribbons with asymmetric edge hydrogenation. <i>Organic Electronics</i> , 2016, 32, 41-46.	2.6	22
15	Magnetism and magnetic transport properties of the polycrystalline graphene nanoribbon heterojunctions. <i>Carbon</i> , 2016, 98, 204-212.	10.3	32
16	Effect of electrode twisting on electronic transport properties of atomic carbon wires. <i>Carbon</i> , 2016, 98, 179-186.	10.3	68
17	Electronic structures and transport properties of armchair graphene nanoribbons by ordered doping. <i>Organic Electronics</i> , 2015, 18, 135-142.	2.6	42
18	Improving the bias range for spin-filtering by selecting proper electrode materials. <i>RSC Advances</i> , 2015, 5, 15812-15817.	3.6	1

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19	The design of bipolar spin semiconductor based on zigzag edge graphene nanoribbons. Carbon, 2015, 94, 317-325.	10.3	23
20	Tuning spin polarization and spin transport of zigzag graphene nanoribbons by line defects. Physical Chemistry Chemical Physics, 2015, 17, 638-643.	2.8	29
21	Spin filter effects in zigzag-edge graphene nanoribbons with symmetric and asymmetric edge hydrogenations. Carbon, 2014, 66, 646-653.	10.3	108
22	Electronic and spin transport properties in zigzag silicene nanoribbons with edge protrusions. RSC Advances, 2014, 4, 58941-58948.	3.6	20
23	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
24	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
25	The design of spin filter junction in zigzag graphene nanoribbons with asymmetric edge hydrogenation. Organic Electronics, 2013, 14, 3240-3248.	2.6	33
26	Altering regularities of electronic transport properties in twisted graphene nanoribbons. Applied Physics Letters, 2012, 101, .	3.3	23
27	Rectifying behaviors induced by BN-doping in trigonal graphene with zigzag edges. Applied Physics Letters, 2012, 100, .	3.3	57
28	Enormously Enhanced Rectifying Performances by Modification of Carbon Chains for D-A Molecular Devices. Journal of Physical Chemistry C, 2012, 116, 12900-12905.	3.1	34
29	Rectifying performance of D-A molecules based on cyanovinyl aniline derivatives. Applied Physics Letters, 2010, 97, 203104.	3.3	47
30	End-group effects on negative differential resistance and rectifying performance of a polyyne-based molecular wire. Applied Physics Letters, 2010, 97, .	3.3	27
31	Examinations into the contaminant-induced transport instabilities in a molecular device. Applied Physics Letters, 2010, 97, 183105.	3.3	40
32	Conduction switching behaviors of a small molecular device. Journal of Applied Physics, 2010, 107, 063704.	2.5	24
33	Electrode metal dependence of the rectifying performance for molecular devices: A density functional study. Applied Physics Letters, 2009, 95, 103113.	3.3	67
34	Electrode conformation-induced negative differential resistance and rectifying performance in a molecular device. Applied Physics Letters, 2009, 95, 163109.	3.3	31
35	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