Yangyang Wang

List of Publications by Year
in descending order

57 papers	4,412 citations	109137 35 h-index	143772 57 g-index
58 all docs	58 docs citations	58 times ranked	4254 citing authors

#	Article	IF	Citations
1	Extending Channel Scaling Limit of p-MOSFETs Through Antimonene With Heavy Effective Mass and High Density of State. IEEE Transactions on Electron Devices, 2022, 69, 857-862.	1.6	17
2	Modulating tunneling width and energy window for high-on-current two-dimensional tunnel field-effect transistors. Nano Energy, 2021, 81, 105642.	8.2	20
3	Largeâ€Scale Multifunctional Carbon Nanotube Thin Film as Effective Midâ€Infrared Radiation Modulator with Longâ€Term Stability. Advanced Optical Materials, 2021, 9, 2001216.	3.6	32
4	Soft-chemistry synthesis, solubility and interlayer spacing of carbon nano-onions. RSC Advances, 2021, 11, 6850-6858.	1.7	14
5	Thermal infrared and broadband microwave stealth glass windows based on multi-band optimization. Optics Express, 2021, 29, 13610.	1.7	21
6	Schottky barrier heights in two-dimensional field-effect transistors: from theory to experiment. Reports on Progress in Physics, 2021, 84, 056501.	8.1	97
7	Layer-Dependent Photoabsorption and Photovoltaic Effects in Two-Dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mrow><mml:mrow><m mathvariant="normal">O</mml:mi></mml:mrow></mml:mrow><mml:mn>2</mml:mn></mml:msub><mml:mi>X</mml:mi></mml:ma		

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19	Bilayer tellureneâ€“metal interfaces. Journal of Semiconductors, 2019, 40, 062003.	2.0	9
20	Interfacial Properties of Monolayer Antimonene Devices. Physical Review Applied, 2019, 11, .	1.5	22
21	Flexible Mid-Infrared Radiation Modulator with Multilayer Graphene Thin Film by Ionic Liquid Gating. ACS Applied Materials & Interfaces, 2019, 11, 13538-13544.	4.0	47
22	Gate-tunable interfacial properties of in-plane ML MX₂ 1Tâ€²â€“2H heterojunctions. Journal of Materials Chemistry C, 2018, 6, 5651-5661.	2.7	54
23	Three-layer phosphorene-metal interfaces. Nano Research, 2018, 11, 707-721.	5.8	72
24	Electrical contacts in monolayer blue phosphorene devices. Nano Research, 2018, 11, 1834-1849.	5.8	55
25	High-performance sub-10-nm monolayer black phosphorene tunneling transistors. Nano Research, 2018, 11, 2658-2668.	5.8	47
26	n-Type Ohmic contact and p-type Schottky contact of monolayer InSe transistors. Physical Chemistry Chemical Physics, 2018, 20, 24641-24651.	1.3	33
27	n- and p-type ohmic contacts at monolayer gallium nitrideâ€“metal interfaces. Physical Chemistry Chemical Physics, 2018, 20, 24239-24249.	1.3	13
28	Monolayer tellureneâ€“metal contacts. Journal of Materials Chemistry C, 2018, 6, 6153-6163.	2.7	81
29	Simulations of Quantum Transport in Sub-5-nm Monolayer Phosphorene Transistors. Physical Review Applied, 2018, 10, .	1.5	144
30	Sub-5 nm Monolayer Arsenene and Antimonene Transistors. ACS Applied Materials & Interfaces, 2018, 10, 22363-22371.	4.0	77
31	Many-Body Effect and Device Performance Limit of Monolayer InSe. ACS Applied Materials & Interfaces, 2018, 10, 23344-23352.	4.0	98
32	Can a Black Phosphorus Schottky Barrier Transistor Be Good Enough?. ACS Applied Materials & Interfaces, 2017, 9, 3959-3966.	4.0	70
33	Many-body Effect, Carrier Mobility, and Device Performance of Hexagonal Arsenene and Antimonene. Chemistry of Materials, 2017, 29, 2191-2201.	3.2	244
34	Monolayer Bismuthene-Metal Contacts: A Theoretical Study. ACS Applied Materials & Interfaces, 2017, 9, 23128-23140.	4.0	73
35	A computational study of monolayer hexagonal WTe₂ to metal interfaces. Physica Status Solidi (B): Basic Research, 2017, 254, 1600837.	0.7	17
36	Schottky Barriers in Bilayer Phosphorene Transistors. ACS Applied Materials & Interfaces, 2017, 9, 12694-12705.	4.0	94

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37	Black phosphorus transistors with van der Waals-type electrical contacts. Nanoscale, 2017, 9, 14047-14057.	2.8	76
38	Electrical Contacts in Monolayer Arsenene Devices. ACS Applied Materials & Interfaces, 2017, 9, 29273-29284.	4.0	76
39	Controlled release of recombinant human cementum protein 1 from electrospun multiphasic scaffold for cementum regeneration. International Journal of Nanomedicine, 2016, Volume 11, 3145-3158.	3.3	34
40	Does the Dirac cone of germanene exist on metal substrates?. Physical Chemistry Chemical Physics, 2016, 18, 19451-19456.	1.3	39
41	Rise of silicene: A competitive 2D material. Progress in Materials Science, 2016, 83, 24-151.	16.0	713
42	Interfacial properties of staneneâ€“metal contacts. 2D Materials, 2016, 3, 035020.	2.0	26
43	Performance Upper Limit of subâ€10 nm Monolayer MoS₂ Transistors. Advanced Electronic Materials, 2016, 2, 1600191.	2.6	97
44	Interfacial Properties of Monolayer and Bilayer MoS2 Contacts with Metals: Beyond the Energy Band Calculations. Scientific Reports, 2016, 6, 21786.	1.6	224
45	Interfacial Properties of Monolayer MoSe₂â€“Metal Contacts. Journal of Physical Chemistry C, 2016, 120, 13063-13070.	1.5	70
46	Monolayer Phosphoreneâ€“Metal Contacts. Chemistry of Materials, 2016, 28, 2100-2109.	3.2	199
47	Does p-type ohmic contact exist in WSe₂â€“metal interfaces?. Nanoscale, 2016, 8, 1179-1191.	2.8	166
48	Graphdiyneâ€“metal contacts and graphdiyne transistors. Nanoscale, 2015, 7, 2116-2127.	2.8	94
49	Silicene nanomesh. Scientific Reports, 2015, 5, 9075.	1.6	42
50	Allâ€Metallic Vertical Transistors Based on Stacked Dirac Materials. Advanced Functional Materials, 2015, 25, 68-77.	7.8	59
51	Strong band hybridization between silicene and Ag(111) substrate. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 58, 38-42.	1.3	43
52	Does the Dirac Cone Exist in Silicene on Metal Substrates?. Scientific Reports, 2014, 4, 5476.	1.6	92
53	Interfacial Properties of Bilayer and Trilayer Graphene on Metal Substrates. Scientific Reports, 2013, 3, 2081.	1.6	86
54	Tunable band gap in few-layer graphene by surface adsorption. Scientific Reports, 2013, 3, .	1.6	55

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55	Enhanced manyâ€body effects in oneâ€dimensional linear atomic chains. Physica Status Solidi (B): Basic Research, 2013, 250, 1636-1643.	0.7	7
56	Tunable and sizable band gap in silicene by surface adsorption. Scientific Reports, 2012, 2, 853.	1.6	253
57	Tunable and sizable band gap in silicene by surface adsorption. , 0, .		1