Yewu Wang

List of Publications by Year
in descending order

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45 papers	1,818 citations	361045 20 h-index	264894 42 g-index
45 all docs	45 docs citations	45 times ranked	3072 citing authors

#	Article	IF	Citations
1	Epitaxial growth of silicon nanowires using an aluminium catalyst. Nature Nanotechnology, 2006, 1, 186-189.	15.6	526
2	Ultrafast Electrochemical Expansion of Black Phosphorus toward High-Yield Synthesis of Few-Layer Phosphorene. Chemistry of Materials, 2018, 30, 2742-2749.	3.2	132
3	P-type Doping in Large-Area Monolayer MoS₂ by Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2020, 12, 6276-6282.	4.0	129
4	Performance characteristics of supercapacitor electrodes made of silicon carbide nanowires grown on carbon fabric. Journal of Power Sources, 2013, 243, 648-653.	4.0	83
5	Growth Mechanism and Enhanced Yield of Black Phosphorus Microribbons. Crystal Growth and Design, 2016, 16, 1096-1103.	1.4	80
6	Silicon carbide nanowires@Ni(OH)2 coreâ€“shell structures on carbon fabric for supercapacitor electrodes with excellent rate capability. Journal of Power Sources, 2015, 273, 479-485.	4.0	74
7	Anodic electrodeposition of a porous nickel oxideâ€“hydroxide film on passivated nickel foam for supercapacitors. Journal of Materials Chemistry A, 2014, 2, 7161-7164.	5.2	70
8	Metal-assisted exfoliation of few-layer black phosphorus with high yield. Chemical Communications, 2018, 54, 595-598.	2.2	66
9	Understanding the growth of black phosphorus crystals. CrystEngComm, 2016, 18, 7737-7744.	1.3	60
10	Binder-free three-dimensional porous Mn₃O₄nanorods/reduced graphene oxide paper-like electrodes for electrochemical energy storage. RSC Advances, 2014, 4, 16374.	1.7	53
11	SiC@Si coreâ€“shell nanowires on carbon paper as a hybrid anode forÂlithium-ion batteries. Journal of Power Sources, 2015, 293, 492-497.	4.0	45
12	Carbon-coated silicon nanotube arrays on carbon cloth as a hybrid anode for lithium-ion batteries. Journal of Power Sources, 2016, 307, 410-415.	4.0	39
13	Detailed Study on Photoluminescence Property and Growth Mechanism of ZnO Nanowire Arrays Grown by Thermal Evaporation. Journal of Physical Chemistry C, 2010, 114, 12469-12476.	1.5	33
14	Resolving the Spatial Structures of Bound Hole States in Black Phosphorus. Nano Letters, 2017, 17, 6935-6940.	4.5	33
15	Large-scale polyol synthesis of single-crystal bismuth nanowires and the role of NaOH in the synthesis process. Nanotechnology, 2008, 19, 265303.	1.3	30
16	A 3D-SERS substrate with high stability: Silicon nanowire arrays decorated by silver nanoparticles. CrystEngComm, 2013, 15, 6207.	1.3	30
17	Influence of metal electrode on the performance of ZnO based resistance switching memories. Journal of Applied Physics, 2017, 122, .	1.1	30
18	Crystal growth of Si nanowires and formation of longitudinal planar defects. CrystEngComm, 2010, 12, 2793.	1.3	28

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19	Surface charge transfer doping of monolayer molybdenum disulfide by black phosphorus quantum dots. Nanotechnology, 2016, 27, 505204.	1.3	26
20	Facile approach to synthesize SnO2 nanoparticles@carbon nanofibers as anode materials for lithium-ion battery. Journal of Power Sources, 2012, 217, 351-357.	4.0	25
21	Purposed Built ZnO/Zn5(OH)8Ac2Â·2H2O Architectures by Hydrothermal Synthesis. Crystal Growth and Design, 2010, 10, 2759-2765.	1.4	20
22	Synthesis and electrical properties of single crystalline black phosphorus nanoribbons. CrystEngComm, 2020, 22, 3824-3830.	1.3	19
23	HfO₂-passivated black phosphorus field effect transistor with long-termed stability and enhanced current on/off ratio. Nanotechnology, 2019, 30, 345208.	1.3	18
24	Ultrafast Li⁺ Diffusion Kinetics of 2D Oxidized Phosphorus for Quasi-Solid-State Bendable Batteries with Exceptional Energy Densities. Chemistry of Materials, 2019, 31, 4113-4123.	3.2	17
25	Improvement in the quality of black phosphorus by selecting a mineralizer. Nanoscale, 2019, 11, 20081-20089.	2.8	15
26	Surface charge transfer doping and effective passivation of black phosphorus field effect transistors. Journal of Materials Chemistry C, 2020, 8, 6595-6604.	2.7	15
27	Formation mechanism of hollow microspheres consisting of ZnO nanosheets. CrystEngComm, 2012, 14, 8615.	1.3	14
28	Self-powered and high responsivity photodetector based on a n-Si/p-GaTe heterojunction. Nanotechnology, 2021, 32, 225204.	1.3	13
29	Photoluminescence enhancement by stacking bi-layer MoS2 without interlayer coupling. Journal of Luminescence, 2019, 213, 388-394.	1.5	12
30	Highly Sensitive Photodetector Based on the n-Si/p-GaSe Vertical Heterojunction. ACS Applied Nano Materials, 2022, 5, 8012-8019.	2.4	9
31	N-type doping of black phosphorus single crystal by tellurium. Nanotechnology, 2020, 31, 315605.	1.3	8
32	Controllable p-type doping of monolayer MoS₂with tantalum by one-step chemical vapor deposition. Journal of Materials Chemistry C, 2022, 10, 7662-7673.	2.7	8
33	Stacking the MoS2/GeSe2 vertical van der Waals heterostructure for memory device. Applied Physics Letters, 2020, 117, .	1.5	7
34	Gate induced charge transfer and hysteresis enlargement in MoS₂/GeSe₂ vertical heterostructures. Journal of Materials Chemistry C, 2021, 9, 8213-8219.	2.7	7
35	Design of a two-layer structure to significantly improve the performance of zinc oxide resistive memory. Nanotechnology, 2020, 31, 115209.	1.3	6
36	Resistive memory based on single-crystalline black phosphorus flake/HfOx structure. AIP Advances, 2020, 10, .	0.6	6

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37	Air stable and reversible n-type surface functionalization of MoS₂ monolayer using Arg and Lys amino acids. Journal of Materials Chemistry C, 2020, 8, 12181-12188.	2.7	6
38	Aluminum-enhanced sharpening of silicon nanocones. Applied Physics A: Materials Science and Processing, 2010, 99, 705-709.	1.1	5
39	Preparation of black phosphorus quantum dots and the surface decoration effect on the monolayer MoS2 photodetectors. Chemical Physics Letters, 2021, 772, 138571.	1.2	5
40	Epitaxial growth of silver nanoislands on the surface of silicon nanowires in ambient air. Acta Materialia, 2014, 79, 241-247.	3.8	4
41	The migration of gold on large diameter silicon nanowires in oxygenous system. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 687-689.	0.8	3
42	Silicon nanowires grown from copper oxalate. Materials Letters, 2010, 64, 1839-1842.	1.3	3
43	Structure analyses and growth mechanism of ZnO nanoladders. Materials Letters, 2010, 64, 1925-1928.	1.3	3
44	Composite structure of SiO_2@AgNPs@p-SiNWs for enhanced broadband optical antireflection. Optics Express, 2013, 21, 17484.	1.7	3
45	Design and build MoS2/Au/MoS2 sandwich structure to significantly enhance the photoluminescence. AIP Advances, 2019, 9, 095305.	0.6	0