Chen Wang

List of Publications by Year
in descending order

37 papers	8,078 citations	201674 27 h-index	330143 37 g-index
38 all docs	38 docs citations	38 times ranked	12836 citing authors

#	Article	IF	Citations
1	Lateral layered semiconductor multijunctions for novel electronic devices. Chemical Society Reviews, 2022, 51, 4000-4022.	38.1	12
2	Study on the Performance of Oxygen-Rich Zn(O,S) Buffers Fabricated by Sputtering Deposition and Zn(O,S)/Cu(In,Ga)(S,Se)₂ Interfaces. ACS Applied Materials & Interfaces, 2022, 14, 24435-24446.	8.0	2
3	Monolayer MoS₂ Synaptic Transistors for High-Temperature Neuromorphic Applications. Nano Letters, 2021, 21, 10400-10408.	9.1	41
4	High-efficiency cross-polarization conversion metamaterial using spiral split-ring resonators. AIP Advances, 2020, 10, .	1.3	9
5	Hierarchical flower-like NiCo2O4 applied in n-butanol detection at low temperature. Sensors and Actuators B: Chemical, 2020, 320, 128577.	7.8	37
6	Hybrid superlattices of two-dimensional materials and organics. Chemical Society Reviews, 2020, 49, 6866-6883.	38.1	49
7	Sensitive pressure sensors based on conductive microstructured air-gap gates and two-dimensional semiconductor transistors. Nature Electronics, 2020, 3, 59-69.	26.0	150
8	In Situ Probing Molecular Intercalation in Two-Dimensional Layered Semiconductors. Nano Letters, 2019, 19, 6819-6826.	9.1	72
9	Peptide-Assisted 2-D Assembly toward Free-Floating Ultrathin Platinum Nanoplates as Effective Electrocatalysts. Nano Letters, 2019, 19, 3730-3736.	9.1	44
10	Double-negative-index ceramic aerogels for thermal superinsulation. Science, 2019, 363, 723-727.	12.6	429
11	Long-Range Hierarchical Nanocrystal Assembly Driven by Molecular Structural Transformation. Journal of the American Chemical Society, 2019, 141, 1498-1505.	13.7	21
12	One-Step Synthesis of Au/SnO2/RGO Nanocomposites and Their VOC Sensing Properties. IEEE Nanotechnology Magazine, 2018, 17, 212-219.	2.0	144
13	Monolayer atomic crystal molecular superlattices. Nature, 2018, 555, 231-236.	27.8	323
14	Facile Fabrication of Unimpeded and Stable Graphene Oxide Coating on Reverse Osmosis Membrane for Dualâ€Functional Protection. ChemistrySelect, 2018, 3, 12122-12130.	1.5	2
15	Solution-processable 2D semiconductors for high-performance large-area electronics. Nature, 2018, 562, 254-258.	27.8	644
16	Controllable epitaxial growth of MoSe₂â€“MoS₂ lateral heterostructures with tunable electrostatic properties. Nanotechnology, 2018, 29, 484003.	2.6	8
17	Highly sensitive and selective butanol sensors using the intermediate state nanocomposites converted from Î²-FeOOH to Î±-Fe2O3. Sensors and Actuators B: Chemical, 2018, 273, 543-551.	7.8	58
18	Three-dimensional holey-graphene/niobia composite architectures for ultrahigh-rate energy storage. Science, 2017, 356, 599-604.	12.6	1,229

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19	Processable graphene oxide-embedded titanate nanofiber membranes with improved filtration performance. Journal of Hazardous Materials, 2017, 325, 214-222.	12.4	24
20	Ligand-free Pd(0)/SiO₂-catalyzed aminocarbonylation of aryl iodides to amides under atmospheric CO pressure. RSC Advances, 2017, 7, 37200-37207.	3.6	13
21	Synthesis of 2D Layered BiI₃ Nanoplates, BiI₃/WSe₂van der Waals Heterostructures and Their Electronic, Optoelectronic Properties. Small, 2017, 13, 1701034.	10.0	59
22	Enhanced electrical characteristics of black phosphorus by polyaniline and protonic acid surface doping. , 2017, , .		1
23	Introduction of holes into graphene sheets to further enhance grapheneâ€“TiO₂ photocatalysis activities. RSC Advances, 2016, 6, 84068-84073.	3.6	16
24	Tuning the Catalytic Activity of a Metalâ€“Organic Framework Derived Copper and Nitrogen Co-Doped Carbon Composite for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2016, 8, 26769-26774.	8.0	63
25	Synthesis of WS_{2x}Se_{2â€“2x} Alloy Nanosheets with Composition-Tunable Electronic Properties. Nano Letters, 2016, 16, 264-269.	9.1	308
26	Ag/SnO2/graphene ternary nanocomposites and their sensing properties to volatile organic compounds. Journal of Alloys and Compounds, 2016, 659, 127-131.	5.5	48
27	Solution Processable Holey Graphene Oxide and Its Derived Macrostructures for High-Performance Supercapacitors. Nano Letters, 2015, 15, 4605-4610.	9.1	426
28	Sub-ppb detection of acetone using Au-modified flower-like hierarchical ZnO structures. Sensors and Actuators B: Chemical, 2015, 219, 209-217.	7.8	95
29	Interlaced nanoflake-assembled flower-like hierarchical ZnO microspheres prepared by bisolvents and their sensing properties to ethanol. Journal of Alloys and Compounds, 2015, 632, 645-650.	5.5	56
30	Electric-field-induced strong enhancement of electroluminescence in multilayer molybdenum disulfide. Nature Communications, 2015, 6, 7509.	12.8	132
31	Cosolvent Approach for Solution-Processable Electronic Thin Films. ACS Nano, 2015, 9, 4398-4405.	14.6	63
32	Two-dimensional transition metal dichalcogenides as atomically thin semiconductors: opportunities and challenges. Chemical Society Reviews, 2015, 44, 8859-8876.	38.1	917
33	Flower-like hierarchical structures consisting of porous single-crystalline ZnO nanosheets and their gas sensing properties to volatile organic compounds (VOCs). Journal of Alloys and Compounds, 2015, 626, 124-130.	5.5	99
34	Large Area Growth and Electrical Properties of p-Type WSe₂ Atomic Layers. Nano Letters, 2015, 15, 709-713.	9.1	372
35	Cu-doped Î±-Fe2O3 hierarchical microcubes: Synthesis and gas sensing properties. Sensors and Actuators B: Chemical, 2014, 193, 616-622.	7.8	115
36	Lateral epitaxial growth of two-dimensional layered semiconductor heterojunctions. Nature Nanotechnology, 2014, 9, 1024-1030.	31.5	1,056

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37	Electroluminescence and Photocurrent Generation from Atomically Sharp WSe₂/MoS₂ Heterojunction pâ€“n Diodes. Nano Letters, 2014, 14, 5590-5597.	9.1	937