

# Chen Wang

## List of Publications by Year in descending order

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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	Three-dimensional holey-graphene/niobia composite architectures for ultrahigh-rate energy storage. <i>Science</i> , 2017, 356, 599-604.	12.6	1,229
2	Lateral epitaxial growth of two-dimensional layered semiconductor heterojunctions. <i>Nature Nanotechnology</i> , 2014, 9, 1024-1030.	31.5	1,056
3	Electroluminescence and Photocurrent Generation from Atomically Sharp WSe <sub>2</sub> /MoS <sub>2</sub> Heterojunction <i>pn</i> Diodes. <i>Nano Letters</i> , 2014, 14, 5590-5597.	9.1	937
4	Two-dimensional transition metal dichalcogenides as atomically thin semiconductors: opportunities and challenges. <i>Chemical Society Reviews</i> , 2015, 44, 8859-8876.	38.1	917
5	Solution-processable 2D semiconductors for high-performance large-area electronics. <i>Nature</i> , 2018, 562, 254-258.	27.8	644
6	Double-negative-index ceramic aerogels for thermal superinsulation. <i>Science</i> , 2019, 363, 723-727.	12.6	429
7	Solution Processable Holey Graphene Oxide and Its Derived Macrostructures for High-Performance Supercapacitors. <i>Nano Letters</i> , 2015, 15, 4605-4610.	9.1	426
8	Large Area Growth and Electrical Properties of p-Type WSe <sub>2</sub> Atomic Layers. <i>Nano Letters</i> , 2015, 15, 709-713.	9.1	372
9	Monolayer atomic crystal molecular superlattices. <i>Nature</i> , 2018, 555, 231-236.	27.8	323
10	Synthesis of WS <sub>2</sub> /Se <sub>2</sub> Alloy Nanosheets with Composition-Tunable Electronic Properties. <i>Nano Letters</i> , 2016, 16, 264-269.	9.1	308
11	Sensitive pressure sensors based on conductive microstructured air-gap gates and two-dimensional semiconductor transistors. <i>Nature Electronics</i> , 2020, 3, 59-69.	26.0	150
12	One-Step Synthesis of Au/SnO <sub>2</sub> /RGO Nanocomposites and Their VOC Sensing Properties. <i>IEEE Nanotechnology Magazine</i> , 2018, 17, 212-219.	2.0	144
13	Electric-field-induced strong enhancement of electroluminescence in multilayer molybdenum disulfide. <i>Nature Communications</i> , 2015, 6, 7509.	12.8	132
14	Cu-doped $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> hierarchical microcubes: Synthesis and gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 616-622.	7.8	115
15	Flower-like hierarchical structures consisting of porous single-crystalline ZnO nanosheets and their gas sensing properties to volatile organic compounds (VOCs). <i>Journal of Alloys and Compounds</i> , 2015, 626, 124-130.	5.5	99
16	Sub-ppb detection of acetone using Au-modified flower-like hierarchical ZnO structures. <i>Sensors and Actuators B: Chemical</i> , 2015, 219, 209-217.	7.8	95
17	In Situ Probing Molecular Intercalation in Two-Dimensional Layered Semiconductors. <i>Nano Letters</i> , 2019, 19, 6819-6826.	9.1	72
18	Cosolvent Approach for Solution-Processable Electronic Thin Films. <i>ACS Nano</i> , 2015, 9, 4398-4405.	14.6	63

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19	Tuning the Catalytic Activity of a Metal-Organic Framework Derived Copper and Nitrogen Co-Doped Carbon Composite for Oxygen Reduction Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 26769-26774.	8.0	63
20	Synthesis of 2D Layered Bi <sub>2</sub> S <sub>3</sub> Nanoplates, Bi <sub>2</sub> S <sub>3</sub> /WSe <sub>2</sub> van der Waals Heterostructures and Their Electronic, Optoelectronic Properties. <i>Small</i> , 2017, 13, 1701034.	10.0	59
21	Highly sensitive and selective butanol sensors using the intermediate state nanocomposites converted from Fe <sup>2+</sup> -FeOOH to Fe <sup>3+</sup> -Fe <sub>2</sub> O <sub>3</sub> . <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 543-551.	7.8	58
22	Interlaced nanoflake-assembled flower-like hierarchical ZnO microspheres prepared by bisolvents and their sensing properties to ethanol. <i>Journal of Alloys and Compounds</i> , 2015, 632, 645-650.	5.5	56
23	Hybrid superlattices of two-dimensional materials and organics. <i>Chemical Society Reviews</i> , 2020, 49, 6866-6883.	38.1	49
24	Ag/SnO <sub>2</sub> /graphene ternary nanocomposites and their sensing properties to volatile organic compounds. <i>Journal of Alloys and Compounds</i> , 2016, 659, 127-131.	5.5	48
25	Peptide-Assisted 2-D Assembly toward Free-Floating Ultrathin Platinum Nanoplates as Effective Electrocatalysts. <i>Nano Letters</i> , 2019, 19, 3730-3736.	9.1	44
26	Monolayer MoS <sub>2</sub> Synaptic Transistors for High-Temperature Neuromorphic Applications. <i>Nano Letters</i> , 2021, 21, 10400-10408.	9.1	41
27	Hierarchical flower-like NiCo <sub>2</sub> O <sub>4</sub> applied in n-butanol detection at low temperature. <i>Sensors and Actuators B: Chemical</i> , 2020, 320, 128577.	7.8	37
28	Processable graphene oxide-embedded titanate nanofiber membranes with improved filtration performance. <i>Journal of Hazardous Materials</i> , 2017, 325, 214-222.	12.4	24
29	Long-Range Hierarchical Nanocrystal Assembly Driven by Molecular Structural Transformation. <i>Journal of the American Chemical Society</i> , 2019, 141, 1498-1505.	13.7	21
30	Introduction of holes into graphene sheets to further enhance graphene-TiO <sub>2</sub> photocatalysis activities. <i>RSC Advances</i> , 2016, 6, 84068-84073.	3.6	16
31	Ligand-free Pd(0)/SiO <sub>2</sub> -catalyzed aminocarbonylation of aryl iodides to amides under atmospheric CO pressure. <i>RSC Advances</i> , 2017, 7, 37200-37207.	3.6	13
32	Lateral layered semiconductor multijunctions for novel electronic devices. <i>Chemical Society Reviews</i> , 2022, 51, 4000-4022.	38.1	12
33	High-efficiency cross-polarization conversion metamaterial using spiral split-ring resonators. <i>AIP Advances</i> , 2020, 10, .	1.3	9
34	Controllable epitaxial growth of MoSe <sub>2</sub> -MoS <sub>2</sub> lateral heterostructures with tunable electrostatic properties. <i>Nanotechnology</i> , 2018, 29, 484003.	2.6	8
35	Facile Fabrication of Unimpeded and Stable Graphene Oxide Coating on Reverse Osmosis Membrane for Dual-Functional Protection. <i>ChemistrySelect</i> , 2018, 3, 12122-12130.	1.5	2
36	Study on the Performance of Oxygen-Rich Zn(O,S) Buffers Fabricated by Sputtering Deposition and Zn(O,S)/Cu(In,Ga)(S,Se) <sub>2</sub> Interfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 24435-24446.	8.0	2

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37	Enhanced electrical characteristics of black phosphorus by polyaniline and protonic acid surface doping. , 2017, , .		1