

# Chen Wang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

33  
papers

6,012  
citations

24  
h-index

38  
g-index

38  
ext. papers

7,047  
ext. citations

17.3  
avg, IF

5.53  
L-index

#	Paper	IF	Citations
33	Sensitive pressure sensors based on conductive microstructured air-gap gates and two-dimensional semiconductor transistors. <i>Nature Electronics</i> , <b>2020</b> , 3, 59-69	28.4	69
32	High-efficiency cross-polarization conversion metamaterial using spiral split-ring resonators. <i>AIP Advances</i> , <b>2020</b> , 10, 095210	1.5	2
31	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> , <b>2020</b> , 320, 128577	8.5	13
30	Hybrid superlattices of two-dimensional materials and organics. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 6866-6883	15	15
29	In Situ Probing Molecular Intercalation in Two-Dimensional Layered Semiconductors. <i>Nano Letters</i> , <b>2019</b> , 19, 6819-6826	11.5	37
28	Peptide-Assisted 2-D Assembly toward Free-Floating Ultrathin Platinum Nanoplates as Effective Electrocatalysts. <i>Nano Letters</i> , <b>2019</b> , 19, 3730-3736	11.5	31
27	Double-negative-index ceramic aerogels for thermal superinsulation. <i>Science</i> , <b>2019</b> , 363, 723-727	33.3	229
26	Long-Range Hierarchical Nanocrystal Assembly Driven by Molecular Structural Transformation. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 1498-1505	16.4	14
25	One-Step Synthesis of Au/SnO <sub>2</sub> /RGO Nanocomposites and Their VOC Sensing Properties. <i>IEEE Nanotechnology Magazine</i> , <b>2018</b> , 17, 212-219	2.6	98
24	Monolayer atomic crystal molecular superlattices. <i>Nature</i> , <b>2018</b> , 555, 231-236	50.4	220
23	Highly sensitive and selective butanol sensors using the intermediate state nanocomposites converted from $\gamma$ -FeOOH to $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> . <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 273, 543-551	8.5	40
22	Facile Fabrication of Unimpeded and Stable Graphene Oxide Coating on Reverse Osmosis Membrane for Dual-Functional Protection. <i>ChemistrySelect</i> , <b>2018</b> , 3, 12122-12130	1.8	2
21	Solution-processable 2D semiconductors for high-performance large-area electronics. <i>Nature</i> , <b>2018</b> , 562, 254-258	50.4	404
20	Controllable epitaxial growth of MoSe-MoS lateral heterostructures with tunable electrostatic properties. <i>Nanotechnology</i> , <b>2018</b> , 29, 484003	3.4	6
19	Three-dimensional holey-graphene/niobia composite architectures for ultrahigh-rate energy storage. <i>Science</i> , <b>2017</b> , 356, 599-604	33.3	965
18	Processable graphene oxide-embedded titanate nanofiber membranes with improved filtration performance. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 325, 214-222	12.8	16
17	Ligand-free Pd(0)/SiO <sub>2</sub> -catalyzed aminocarbonylation of aryl iodides to amides under atmospheric CO pressure. <i>RSC Advances</i> , <b>2017</b> , 7, 37200-37207	3.7	7

16	Synthesis of 2D Layered BiI Nanoplates, BiI /WSe van der Waals Heterostructures and Their Electronic, Optoelectronic Properties. <i>Small</i> , <b>2017</b> , 13, 1701034	11	41
15	Introduction of holes into graphene sheets to further enhance graphene $\pi$ iO <sub>2</sub> photocatalysis activities. <i>RSC Advances</i> , <b>2016</b> , 6, 84068-84073	3.7	15
14	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> , <b>2016</b> , 8, 26769-26774	9.5	55
13	Synthesis of WS <sub>2</sub> xSe <sub>2-2x</sub> Alloy Nanosheets with Composition-Tunable Electronic Properties. <i>Nano Letters</i> , <b>2016</b> , 16, 264-9	11.5	218
12	Ag/SnO <sub>2</sub> /graphene ternary nanocomposites and their sensing properties to volatile organic compounds. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 659, 127-131	5.7	40
11	Electric-field-induced strong enhancement of electroluminescence in multilayer molybdenum disulfide. <i>Nature Communications</i> , <b>2015</b> , 6, 7509	17.4	104
10	Cosolvent approach for solution-processable electronic thin films. <i>ACS Nano</i> , <b>2015</b> , 9, 4398-405	16.7	51
9	Two-dimensional transition metal dichalcogenides as atomically thin semiconductors: opportunities and challenges. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 8859-76	58.5	719
8	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> , <b>2015</b> , 626, 124-130	5.7	86
7	Large area growth and electrical properties of p-type WSe <sub>2</sub> atomic layers. <i>Nano Letters</i> , <b>2015</b> , 15, 709-13	11.5	287
6	Solution Processable Holey Graphene Oxide and Its Derived Macrostructures for High-Performance Supercapacitors. <i>Nano Letters</i> , <b>2015</b> , 15, 4605-10	11.5	349
5	Sub-ppb detection of acetone using Au-modified flower-like hierarchical ZnO structures. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 219, 209-217	8.5	82
4	Interlaced nanoflake-assembled flower-like hierarchical ZnO microspheres prepared by bisolvents and their sensing properties to ethanol. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 632, 645-650	5.7	51
3	Lateral epitaxial growth of two-dimensional layered semiconductor heterojunctions. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 1024-30	28.7	858
2	Electroluminescence and photocurrent generation from atomically sharp WSe <sub>2</sub> /MoS <sub>2</sub> heterojunction p-n diodes. <i>Nano Letters</i> , <b>2014</b> , 14, 5590-7	11.5	782
1	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> , <b>2014</b> , 193, 616-622	8.5	97