

# Zefeng Chen

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2725120/publications.pdf>

Version: 2024-02-01

38  
papers

3,199  
citations

257450

24  
h-index

315739

38  
g-index

39  
all docs

39  
docs citations

39  
times ranked

6062  
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene and related two-dimensional materials: Structure-property relationships for electronics and optoelectronics. Applied Physics Reviews, 2017, 4, .	11.3	476
2	Near-Infrared Photodetector Based on MoS <sub>2</sub> /Black Phosphorus Heterojunction. ACS Photonics, 2016, 3, 692-699.	6.6	446
3	Flexible Piezoelectric-Induced Pressure Sensors for Static Measurements Based on Nanowires/Graphene Heterostructures. ACS Nano, 2017, 11, 4507-4513.	14.6	435
4	Synergistic Effects of Plasmonics and Electron Trapping in Graphene Short-Wave Infrared Photodetectors with Ultrahigh Responsivity. ACS Nano, 2017, 11, 430-437.	14.6	192
5	1T <sup>±</sup> Transition Metal Telluride Atomic Layers for Plasmon-Free SERS at Femtomolar Levels. Journal of the American Chemical Society, 2018, 140, 8696-8704.	13.7	192
6	High Responsivity, Broadband, and Fast Graphene/Silicon Photodetector in Photoconductor Mode. Advanced Optical Materials, 2015, 3, 1207-1214.	7.3	141
7	Stable and Efficient 3D-2D Perovskite-Perovskite Planar Heterojunction Solar Cell without Organic Hole Transport Layer. Joule, 2018, 2, 2706-2721.	24.0	124
8	Centimeter-Scale CVD Growth of Highly Crystalline Single-Layer MoS <sub>2</sub> Film with Spatial Homogeneity and the Visualization of Grain Boundaries. ACS Applied Materials & Interfaces, 2017, 9, 12073-12081.	8.0	120
9	Graphene controlled Brewster angle device for ultra broadband terahertz modulation. Nature Communications, 2018, 9, 4909.	12.8	117
10	A Simple Method for Synthesis of High-Quality Millimeter-Scale 1T <sup>±</sup> Transition Metal Telluride and Near-Field Nanooptical Properties. Advanced Materials, 2017, 29, 1700704.	21.0	101
11	Hybrid graphene tunneling photoconductor with interface engineering towards fast photoresponse and high responsivity. Npj 2D Materials and Applications, 2017, 1, .	7.9	77
12	Ultrathin efficient perovskite solar cells employing a periodic structure of a composite hole conductor for elevated plasmonic light harvesting and hole collection. Nanoscale, 2016, 8, 6290-6299.	5.6	69
13	Fully Biodegradable Water Droplet Energy Harvester Based on Leaves of Living Plants. ACS Applied Materials & Interfaces, 2020, 12, 56060-56067.	8.0	69
14	Interlayer Interaction Enhancement in Ruddlesden-Popper Perovskite Solar Cells toward High Efficiency and Phase Stability. ACS Energy Letters, 2019, 4, 1025-1033.	17.4	64
15	Enhancing light-matter interaction in 2D materials by optical micro/nano architectures for high-performance optoelectronic devices. Informa Mater, 2021, 3, 36-60.	17.3	59
16	Abnormal Synergetic Effect of Organic and Halide Ions on the Stability and Optoelectronic Properties of a Mixed Perovskite via In Situ Characterizations. Advanced Materials, 2018, 30, e1801562.	21.0	55
17	Synthesis and Characterization of Metallic Janus MoSH Monolayer. ACS Nano, 2021, 15, 20319-20331.	14.6	47
18	Graphene photodetector integrated on silicon nitride waveguide. Journal of Applied Physics, 2015, 117, .	2.5	46

#	ARTICLE	IF	CITATIONS
19	Controlled Electrochemical Deposition of Large-Area MoS <sub>2</sub> on Graphene for High-Responsivity Photodetectors. <i>Advanced Functional Materials</i> , 2017, 27, 1603998.	14.9	45
20	Graphene Based Terahertz Light Modulator in Total Internal Reflection Geometry. <i>Advanced Optical Materials</i> , 2017, 5, 1600697.	7.3	41
21	Thickness-Dependent Optical Properties and In-Plane Anisotropic Raman Response of the 2D In <sub>2</sub> S <sub>3</sub> . <i>Advanced Optical Materials</i> , 2019, 7, 1901085.	7.3	39
22	van der Waals Transition-Metal Oxide for Visible-MIR Broadband Photodetection via Intercalation Strategy. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 15741-15747.	8.0	36
23	Synergistic Effects of Wrinkled Graphene and Plasmonics in Stretchable Hybrid Platform for Surface-Enhanced Raman Spectroscopy. <i>Advanced Optical Materials</i> , 2017, 5, 1600715.	7.3	28
24	Deterministic and Etching-Free Transfer of Large-Scale 2D Layered Materials for Constructing Interlayer Coupled van der Waals Heterostructures. <i>Advanced Materials Technologies</i> , 2018, 3, 1700282.	5.8	26
25	Near-Infrared Photoresponse of One-Sided Abrupt MAPbI <sub>3</sub> /TiO <sub>2</sub> Heterojunction through a Tunneling Process. <i>Advanced Functional Materials</i> , 2016, 26, 8545-8554.	14.9	23
26	Enhanced Electrochemical Stability by Alkyldiammonium in Dion-Jacobson Perovskite toward Ultrastable Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2021, 9, 2100243.	7.3	21
27	Facet-Dependent Property of Sequentially Deposited Perovskite Thin Films: Chemical Origin and Self-Annihilation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 32366-32375.	8.0	19
28	Direct Observation of Charge Injection of Graphene in the Graphene/WSe <sub>2</sub> Heterostructure by Optical-Pump Terahertz-Probe Spectroscopy. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 47501-47506.	8.0	19
29	Efficient passivation of monolayer MoS <sub>2</sub> by epitaxially grown 2D organic crystals. <i>Science Bulletin</i> , 2019, 64, 1700-1706.	9.0	15
30	Ultra-Narrowband Photodetector with High Responsivity Enabled by Integrating Monolayer J <sub>20</sub> Aggregate Organic Crystal with Graphene. <i>Advanced Optical Materials</i> , 2021, 9, 2100158.	7.3	15
31	Defect Etching of Phase-Transition-Assisted CVD-Grown 2H-MoTe <sub>2</sub> . <i>Small</i> , 2021, 17, e21021460.0	6.0	9
32	Observation of Strong J-Aggregate Light Emission in Monolayer Molecular Crystal on Hexagonal Boron Nitride. <i>Journal of Physical Chemistry A</i> , 2020, 124, 7340-7345.	2.5	8
33	Experimental Observation of Ultrahigh Mobility Anisotropy of Organic Semiconductors in the Two-Dimensional Limit. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2888-2894.	4.3	6
34	Investigation on the Fano-Type Asymmetry in Atomic Semiconductor Coupled to the Plasmonic Lattice. <i>ACS Photonics</i> , 2021, 8, 3583-3590.	6.6	6
35	Topological Transition Enabled by Surface Modification of Photonic Crystals. <i>ACS Photonics</i> , 2021, 8, 1385-1392.	6.6	5
36	Self-assembled dipoles of C <sub>10</sub> -carborane on gate oxide tuning charge carriers in organic field effect transistors. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2690-2695.	5.5	2

#	ARTICLE	IF	CITATIONS
37	Hybrid Materials: Synergistic Effects of Wrinkled Graphene and Plasmonics in Stretchable Hybrid Platform for Surface-Enhanced Raman Spectroscopy (Advanced Optical Materials 6/2017). Advanced Optical Materials, 2017, 5, .	7.3	1
38	Flexible vertical field-effect transistor based on graphene/silicon heterostructure with ion-gel gate. , 2017, , .		0