Zefeng Chen

List of Publications by Year
in descending order

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	Self-assembled dipoles of o-carborane on gate oxide tuning charge carriers in organic field effect transistors. Journal of Materials Chemistry C, 2022, 10, 2690-2695.	5.5	2
2	Enhancing lightâ€matter interaction in <scp>2D</scp> materials by optical micro/nano architectures for highâ€performance optoelectronic devices. InformaÄ¤Ã-MateriÃ¡ly, 2021, 3, 36-60.	17.3	59
3	Topological Transition Enabled by Surface Modification of Photonic Crystals. ACS Photonics, 2021, 8, 1385-1392.	6.6	5
4	Enhanced Electrochemical Stability by Alkyldiammonium in Dionâ€“Jacobson Perovskite toward Ultrastable Lightâ€Emitting Diodes. Advanced Optical Materials, 2021, 9, 2100243.	7.3	21
5	Ultraâ€Narrowband Photodetector with High Responsivity Enabled by Integrating Monolayer Jâ€Aggregate Organic Crystal with Graphene. Advanced Optical Materials, 2021, 9, 2100158.	7.3	15
6	Defect Etching of Phaseâ€Transitionâ€Assisted CVDâ€Grown 2Hâ€MoTe₂. Small, 2021, 17, e2102146	10.0	9
7	Investigation on the Fano-Type Asymmetry in Atomic Semiconductor Coupled to the Plasmonic Lattice. ACS Photonics, 2021, 8, 3583-3590.	6.6	6
8	Synthesis and Characterization of Metallic Janus MoSH Monolayer. ACS Nano, 2021, 15, 20319-20331.	14.6	47
9	Experimental Observation of Ultrahigh Mobility Anisotropy of Organic Semiconductors in the Two-Dimensional Limit. ACS Applied Electronic Materials, 2020, 2, 2888-2894.	4.3	6
10	Observation of Strong J-Aggregate Light Emission in Monolayer Molecular Crystal on Hexagonal Boron Nitride. Journal of Physical Chemistry A, 2020, 124, 7340-7345.	2.5	8
11	Fully Biodegradable Water Droplet Energy Harvester Based on Leaves of Living Plants. ACS Applied Materials & Interfaces, 2020, 12, 56060-56067.	8.0	69
12	Thicknessâ€Dependent Optical Properties and Inâ€Plane Anisotropic Raman Response of the 2D Î²â€In 2 S 3. Advanced Optical Materials, 2019, 7, 1901085.	7.3	39
13	van der Waals Transition-Metal Oxide for Visâ€“MIR Broadband Photodetection via Intercalation Strategy. ACS Applied Materials & Interfaces, 2019, 11, 15741-15747.	8.0	36
14	Interlayer Interaction Enhancement in Ruddlesdenâ€“Popper Perovskite Solar Cells toward High Efficiency and Phase Stability. ACS Energy Letters, 2019, 4, 1025-1033.	17.4	64
15	Efficient passivation of monolayer MoS2 by epitaxially grown 2D organic crystals. Science Bulletin, 2019, 64, 1700-1706.	9.0	15
16	Direct Observation of Charge Injection of Graphene in the Graphene/WSe₂ Heterostructure by Optical-Pump Terahertz-Probe Spectroscopy. ACS Applied Materials & Interfaces, 2019, 11, 47501-47506.	8.0	19
17	Deterministic and Etchingâ€Free Transfer of Largeâ€Scale 2D Layered Materials for Constructing Interlayer Coupled van der Waals Heterostructures. Advanced Materials Technologies, 2018, 3, 1700282.	5.8	26
18	1Tâ€² 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

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19	Graphene controlled Brewster angle device for ultra broadband terahertz modulation. Nature Communications, 2018, 9, 4909.	12.8	117
20	Stable and Efficient 3D-2D Perovskite-Perovskite Planar Heterojunction Solar Cell without Organic Hole Transport Layer. Joule, 2018, 2, 2706-2721.	24.0	124
21	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
22	Controlled Electrochemical Deposition of Largeâ€Area MoS₂ on Graphene for Highâ€Responsivity Photodetectors. Advanced Functional Materials, 2017, 27, 1603998.	14.9	45
23	Synergistic Effects of Wrinkled Graphene and Plasmonics in Stretchable Hybrid Platform for Surfaceâ€Enhanced Raman Spectroscopy. Advanced Optical Materials, 2017, 5, 1600715.	7.3	28
24	Graphene and related two-dimensional materials: Structure-property relationships for electronics and optoelectronics. Applied Physics Reviews, 2017, 4, .	11.3	476
25	Flexible Piezoelectric-Induced Pressure Sensors for Static Measurements Based on Nanowires/Graphene Heterostructures. ACS Nano, 2017, 11, 4507-4513.	14.6	435
26	Centimeter-Scale CVD Growth of Highly Crystalline Single-Layer MoS₂ Film with Spatial Homogeneity and the Visualization of Grain Boundaries. ACS Applied Materials & Interfaces, 2017, 9, 12073-12081.	8.0	120
27	Hybrid Materials: Synergistic Effects of Wrinkled Graphene and Plasmonics in Stretchable Hybrid Platform for Surfaceâ€Enhanced Raman Spectroscopy (Advanced Optical Materials 6/2017). Advanced Optical Materials, 2017, 5, .	7.3	1
28	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
29	Graphene Based Terahertz Light Modulator in Total Internal Reflection Geometry. Advanced Optical Materials, 2017, 5, 1600697.	7.3	41
30	A Simple Method for Synthesis of Highâ€Quality Millimeterâ€Scale 1Tâ€² Transitionâ€Metal Telluride and Nearâ€Field Nanooptical Properties. Advanced Materials, 2017, 29, 1700704.	21.0	101
31	Hybrid graphene tunneling photoconductor with interface engineering towards fast photoresponse and high responsivity. Npj 2D Materials and Applications, 2017, 1, .	7.9	77
32	Flexible vertical field-effect transistor based on graphene/silicon heterostructure with ion-gel gate. , 2017, , .		0
33	Nearâ€Infrared Photoresponse of Oneâ€Sided Abrupt MAPbI₃/TiO₂ Heterojunction through a Tunneling Process. Advanced Functional Materials, 2016, 26, 8545-8554.	14.9	23
34	Facet-Dependent Property of Sequentially Deposited Perovskite Thin Films: Chemical Origin and Self-Annihilation. ACS Applied Materials & Interfaces, 2016, 8, 32366-32375.	8.0	19
35	Near-Infrared Photodetector Based on MoS₂/Black Phosphorus Heterojunction. ACS Photonics, 2016, 3, 692-699.	6.6	446
36	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

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37	High Responsivity, Broadband, and Fast Graphene/Silicon Photodetector in Photoconductor Mode. Advanced Optical Materials, 2015, 3, 1207-1214.	7.3	141
38	Graphene photodetector integrated on silicon nitride waveguide. Journal of Applied Physics, 2015, 117, .	2.5	46