

# Qingsheng Zeng

## List of Publications by Year in descending order

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47  
papers

6,058  
citations

109137

35  
h-index

197535

49  
g-index

49  
all docs

49  
docs citations

49  
times ranked

9547  
citing authors

#	ARTICLE	IF	CITATIONS
1	A library of atomically thin metal chalcogenides. <i>Nature</i> , 2018, 556, 355-359.	13.7	1,225
2	Atomically thin noble metal dichalcogenide: a broadband mid-infrared semiconductor. <i>Nature Communications</i> , 2018, 9, 1545.	5.8	367
3	Black Phosphorus Nanosheets: Synthesis, Characterization and Applications. <i>Small</i> , 2016, 12, 3480-3502.	5.2	337
4	High-quality monolayer superconductor NbSe <sub>2</sub> grown by chemical vapour deposition. <i>Nature Communications</i> , 2017, 8, 394.	5.8	290
5	MoS <sub>2</sub> /TiO <sub>2</sub> Edge-on Heterostructure for Efficient Photocatalytic Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2016, 6, 1600464.	10.2	264
6	High Mobility 2D Palladium Diselenide Field-effect Transistors with Tunable Ambipolar Characteristics. <i>Advanced Materials</i> , 2017, 29, 1602969.	11.1	251
7	Controlled Synthesis of High-Quality Monolayered In <sub>2</sub> Se <sub>3</sub> via Physical Vapor Deposition. <i>Nano Letters</i> , 2015, 15, 6400-6405.	4.5	239
8	Ultrasensitive 2D Bi <sub>2</sub> O <sub>2</sub> Se Phototransistors on Silicon Substrates. <i>Advanced Materials</i> , 2019, 31, e1804945.	11.1	183
9	Large Area and High Quality 2D Transition Metal Telluride. <i>Advanced Materials</i> , 2017, 29, 1603471.	11.1	181
10	Self-gating in semiconductor electrocatalysis. <i>Nature Materials</i> , 2019, 18, 1098-1104.	13.3	167
11	Engineering grain boundaries at the 2D limit for the hydrogen evolution reaction. <i>Nature Communications</i> , 2020, 11, 57.	5.8	153
12	Fast Photoresponse from 1T Tin Diselenide Atomic Layers. <i>Advanced Functional Materials</i> , 2016, 26, 137-145.	7.8	150
13	Van der Waals negative capacitance transistors. <i>Nature Communications</i> , 2019, 10, 3037.	5.8	144
14	Metal-Semiconductor Phase Transition in WSe <sub>2</sub> (1-x)Te <sub>2x</sub> Monolayer. <i>Advanced Materials</i> , 2017, 29, 1603991.	11.1	123
15	Chemical Vapor Deposition of High Quality and Atomically Layered ReS <sub>2</sub> . <i>Small</i> , 2015, 11, 5423-5429.	5.2	122
16	Phase-controllable growth of ultrathin 2D magnetic FeTe crystals. <i>Nature Communications</i> , 2020, 11, 3729.	5.8	120
17	Controlled Synthesis of Organic/Inorganic van der Waals Solid for Tunable Light-Matter Interactions. <i>Advanced Materials</i> , 2015, 27, 7800-7808.	11.1	109
18	Controllable Synthesis of Atomically Thin Type-II Weyl Semimetal WTe <sub>2</sub> Nanosheets: An Advanced Electrode Material for All-Solid-State Flexible Supercapacitors. <i>Advanced Materials</i> , 2017, 29, 1701909.	11.1	107

#	ARTICLE	IF	CITATIONS
19	Carbon Microtube Aerogel Derived from Kapok Fiber: An Efficient and Recyclable Sorbent for Oils and Organic Solvents. <i>ACS Nano</i> , 2020, 14, 595-602.	7.3	104
20	Van der Waals p-n Junction Based on an Organic-Inorganic Heterostructure. <i>Advanced Functional Materials</i> , 2015, 25, 5865-5871.	7.8	98
21	Van der Waals engineering of ferroelectric heterostructures for long-retention memory. <i>Nature Communications</i> , 2021, 12, 1109.	5.8	98
22	Band Engineering for Novel Two-Dimensional Atomic Layers. <i>Small</i> , 2015, 11, 1868-1884.	5.2	96
23	InSe monolayer: synthesis, structure and ultra-high second-harmonic generation. <i>2D Materials</i> , 2018, 5, 025019.	2.0	92
24	Novel Optoelectronic Devices: Transition Metal Dichalcogenide-Based 2D Heterostructures. <i>Advanced Electronic Materials</i> , 2018, 4, 1700335.	2.6	91
25	Temperature Dependence of Anisotropic Thermal Conductivity Tensor of Bulk Black Phosphorus. <i>Advanced Materials</i> , 2017, 29, 1603297.	11.1	89
26	One-Step Synthesis of Metal/Semiconductor Heterostructure NbS <sub>2</sub> /MoS <sub>2</sub> . <i>Chemistry of Materials</i> , 2018, 30, 4001-4007.	3.2	85
27	Subatomic deformation driven by vertical piezoelectricity from CdS ultrathin films. <i>Science Advances</i> , 2016, 2, e1600209.	4.7	67
28	Morphology Engineering in Monolayer MoS <sub>2</sub> /WS <sub>2</sub> Lateral Heterostructures. <i>Advanced Functional Materials</i> , 2018, 28, 1801568.	7.8	67
29	Controlled Growth and Reliable Thickness-Dependent Properties of Organic-Inorganic Perovskite Platelet Crystal. <i>Advanced Functional Materials</i> , 2016, 26, 5263-5270.	7.8	64
30	Large-Area Atomic Layers of the Charge-Density-Wave Conductor TiSe <sub>2</sub> . <i>Advanced Materials</i> , 2018, 30, 1704382.	11.1	60
31	2D Black Phosphorus/SrTiO <sub>3</sub> -Based Programmable Photoconductive Switch. <i>Advanced Materials</i> , 2016, 28, 7768-7773.	11.1	57
32	Ordered and Atomically Perfect Fragmentation of Layered Transition Metal Dichalcogenides via Mechanical Instabilities. <i>ACS Nano</i> , 2017, 11, 9191-9199.	7.3	53
33	Controlled synthesis and room-temperature pyroelectricity of CuInP <sub>2</sub> S <sub>6</sub> ultrathin flakes. <i>Nano Energy</i> , 2019, 58, 596-603.	8.2	52
34	Light-Tunable 1T-TaS <sub>2</sub> Charge-Density-Wave Oscillators. <i>ACS Nano</i> , 2018, 12, 11203-11210.	7.3	51
35	Ternary Ta <sub>2</sub> PdS <sub>6</sub> Atomic Layers for an Ultrahigh Broadband Photoresponsive Phototransistor. <i>Advanced Materials</i> , 2021, 33, e2005607.	11.1	44
36	Optoelectronic properties of atomically thin ReSSe with weak interlayer coupling. <i>Nanoscale</i> , 2016, 8, 5826-5834.	2.8	32

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37	Space-confined microwave synthesis of ternary-layered BiOCl crystals with high-performance ultraviolet photodetection. <i>Informa-Materials</i> , 2020, 2, 593-600.	8.5	32
38	Strain-driven growth of ultra-long two-dimensional nano-channels. <i>Nature Communications</i> , 2020, 11, 772.	5.8	31
39	Air Stable Organic-Inorganic Perovskite Nanocrystals@Polymer Nanofibers and Waveguide Lasing. <i>Small</i> , 2020, 16, e2004409.	5.2	29
40	Controlled Growth of 3R Phase Tantalum Diselenide and Its Enhanced Superconductivity. <i>Journal of the American Chemical Society</i> , 2020, 142, 2948-2955.	6.6	27
41	2D Cairo Pentagonal PdPS: Air-Stable Anisotropic Ternary Semiconductor with High Optoelectronic Performance. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	25
42	Direct Laser Patterning of a 2D WSe <sub>2</sub> Logic Circuit. <i>Advanced Functional Materials</i> , 2021, 31, 2009549.	7.8	15
43	PdPSe: Component-Fusion-Based Topology Designer of Two-Dimensional Semiconductor. <i>Advanced Functional Materials</i> , 2021, 31, 2102943.	7.8	15
44	Ultrawideband Surface Enhanced Raman Scattering in Hybrid Graphene Fragmented-Gold Substrates via Cold-Etching. <i>Advanced Optical Materials</i> , 2019, 7, 1900905.	3.6	13
45	Two-step chemical vapor deposition synthesis of NiTe <sub>2</sub> -MoS <sub>2</sub> vertical junctions with improved MoS <sub>2</sub> transistor performance. <i>Nanotechnology</i> , 2021, 32, 235204.	1.3	12
46	Controlled Synthesis of MoxW1-xTe2 Atomic Layers with Emergent Quantum States. <i>ACS Nano</i> , 2021, 15, 11526-11534.	7.3	12
47	Structure engineering: extending the length of azaacene derivatives through quinone bridges. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3628-3633.	2.7	10