Qingsheng Zeng

List of Publications by Year in Descending Order

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Version: 2024-04-23

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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.

47 papers	4,137 citations	32 h-index	49 g-index
49 ext. papers	5,076 ext. citations	16.9 avg, IF	5.29 L-index

#	Paper	IF	Citations
47	Direct Laser Patterning of a 2D WSe2 Logic Circuit. *Advanced Functional Materials*, **2021**, 31, 2009549	15.6	6
46	PdPSe: Component-Fusion-Based Topology Designer of Two-Dimensional Semiconductor. *Advanced Functional Materials*, **2021**, 31, 2102943	15.6	8
45	Controlled Synthesis of MoWTe Atomic Layers with Emergent Quantum States. *ACS Nano*, **2021**,	16.7	2
44	Ternary Ta PdS Atomic Layers for an Ultrahigh Broadband Photoresponsive Phototransistor. *Advanced Materials*, **2021**, 33, e2005607	24	25
43	Van der Waals engineering of ferroelectric heterostructures for long-retention memory. *Nature Communications*, **2021**, 12, 1109	17.4	29
42	Two-step CVD synthesis of NiTe-MoSvertical junctions with improved MoStransistors performance. *Nanotechnology*, **2021**,	3.4	7
41	Strain-driven growth of ultra-long two-dimensional nano-channels. *Nature Communications*, **2020**, 11, 772	17.4	16
40	Controlled Growth of 3R Phase Tantalum Diselenide and Its Enhanced Superconductivity. *Journal of the American Chemical Society*, **2020**, 142, 2948-2955	16.4	12
39	Carbon Microtube Aerogel Derived from Kapok Fiber: An Efficient and Recyclable Sorbent for Oils and Organic Solvents. *ACS Nano*, **2020**, 14, 595-602	16.7	61
38	Engineering grain boundaries at the 2D limit for the hydrogen evolution reaction. *Nature Communications*, **2020**, 11, 57	17.4	72
37	Air Stable Organic-Inorganic Perovskite Nanocrystals@Polymer Nanofibers and Waveguide Lasing. *Small*, **2020**, 16, e2004409	11	9
36	Phase-controllable growth of ultrathin 2D magnetic FeTe crystals. *Nature Communications*, **2020**, 11, 3729	17.4	57
35	Space-confined microwave synthesis of ternary-layered BiOCl crystals with high-performance ultraviolet photodetection. *Informa Materia*, **2020**, 2, 593-600	23.1	25
34	Controlled synthesis and room-temperature pyroelectricity of CuInP2S6 ultrathin flakes. *Nano Energy*, **2019**, 58, 596-603	17.1	31
33	Ultrawideband Surface Enhanced Raman Scattering in Hybrid Graphene Fragmented-Gold Substrates via Cold-Etching. *Advanced Optical Materials*, **2019**, 7, 1900905	8.1	6
32	Van der Waals negative capacitance transistors. *Nature Communications*, **2019**, 10, 3037	17.4	71
31	Self-gating in semiconductor electrocatalysis. *Nature Materials*, **2019**, 18, 1098-1104	27	84

30	Ultrasensitive 2D Bi O Se Phototransistors on Silicon Substrates. *Advanced Materials*, **2019**, 31, e1804945	24	119
29	InSe monolayer: synthesis, structure and ultra-high second-harmonic generation. *2D Materials*, **2018**, 5, 025019	5.9	59
28	Structure engineering: extending the length of azaacene derivatives through quinone bridges. *Journal of Materials Chemistry C*, **2018**, 6, 3628-3633	7.1	9
27	Atomically thin noble metal dichalcogenide: a broadband mid-infrared semiconductor. *Nature Communications*, **2018**, 9, 1545	17.4	267
26	A library of atomically thin metal chalcogenides. *Nature*, **2018**, 556, 355-359	50.4	812
25	Large-Area Atomic Layers of the Charge-Density-Wave Conductor TiSe. *Advanced Materials*, **2018**, 30, 1704382	24	43
24	Novel Optoelectronic Devices: Transition-Metal-Dichalcogenide-Based 2D Heterostructures. *Advanced Electronic Materials*, **2018**, 4, 1700335	6.4	61
23	One-Step Synthesis of Metal/Semiconductor Heterostructure NbS2/MoS2. *Chemistry of Materials*, **2018**, 30, 4001-4007	9.6	54
22	Morphology Engineering in Monolayer MoS2-WS2 Lateral Heterostructures. *Advanced Functional Materials*, **2018**, 28, 1801568	15.6	52
21	Light-Tunable 1T-TaS Charge-Density-Wave Oscillators. *ACS Nano*, **2018**, 12, 11203-11210	16.7	32
20	High Mobility 2D Palladium Diselenide Field-Effect Transistors with Tunable Ambipolar Characteristics. *Advanced Materials*, **2017**, 29, 1602969	24	180
19	High-quality monolayer superconductor NbSe grown by chemical vapour deposition. *Nature Communications*, **2017**, 8, 394	17.4	199
18	Controllable Synthesis of Atomically Thin Type-II Weyl Semimetal WTe Nanosheets: An Advanced Electrode Material for All-Solid-State Flexible Supercapacitors. *Advanced Materials*, **2017**, 29, 1701909	24	81
17	Ordered and Atomically Perfect Fragmentation of Layered Transition Metal Dichalcogenides via Mechanical Instabilities. *ACS Nano*, **2017**, 11, 9191-9199	16.7	39
16	Temperature Dependence of Anisotropic Thermal-Conductivity Tensor of Bulk Black Phosphorus. *Advanced Materials*, **2017**, 29, 1603297	24	65
15	Large-Area and High-Quality 2D Transition Metal Telluride. *Advanced Materials*, **2017**, 29, 1603471	24	140
14	Metal-Semiconductor Phase-Transition in WSe Te Monolayer. *Advanced Materials*, **2017**, 29, 1603991	24	88
13	Subatomic deformation driven by vertical piezoelectricity from CdS ultrathin films. *Science Advances*, **2016**, 2, e1600209	14.3	49

12	Black Phosphorus Nanosheets: Synthesis, Characterization and Applications. *Small*, **2016**, 12, 3480-502	11	267
11	Optoelectronic properties of atomically thin ReSSe with weak interlayer coupling. *Nanoscale*, **2016**, 8, 5826-34	7.7	27
10	Controlled Growth and Reliable Thickness-Dependent Properties of Organic–Inorganic Perovskite Platelet Crystal. *Advanced Functional Materials*, **2016**, 26, 5263-5270	15.6	52
9	MoS2/TiO2 Edge-On Heterostructure for Efficient Photocatalytic Hydrogen Evolution. *Advanced Energy Materials*, **2016**, 6, 1600464	21.8	226
8	Fast Photoresponse from 1T Tin Diselenide Atomic Layers. *Advanced Functional Materials*, **2016**, 26, 137-145	15.6	125
7	2D Black Phosphorus/SrTiO3 -Based Programmable Photoconductive Switch. *Advanced Materials*, **2016**, 28, 7768-73	24	44
6	Controlled Synthesis of High-Quality Monolayered In2Se3 via Physical Vapor Deposition. *Nano Letters*, **2015**, 15, 6400-5	11.5	169
5	Band engineering for novel two-dimensional atomic layers. *Small*, **2015**, 11, 1868-84	11	79
4	Controlled Synthesis of Organic/Inorganic van der Waals Solid for Tunable Light-Matter Interactions. *Advanced Materials*, **2015**, 27, 7800-8	24	94
3	Van der Waals p– Junction Based on an Organic–Inorganic Heterostructure. *Advanced Functional Materials*, **2015**, 25, 5865-5871	15.6	76
2	Chemical Vapor Deposition of High-Quality and Atomically Layered ReS. *Small*, **2015**, 11, 5423-9	11	99
1	2D Cairo Pentagonal PdPS: Air-Stable Anisotropic Ternary Semiconductor with High Optoelectronic Performance. *Advanced Functional Materials*,2113255	15.6	5