

Peng Yu

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.

52
papers

4,319
citations

29
h-index

58
g-index

58
ext. papers

5,437
ext. citations

16.8
avg, IF

5.28
L-index

#	Paper	IF	Citations
52	Atomically Thin 2D van der Waals Magnetic Materials: Fabrications, Structure, Magnetic Properties and Applications. <i>Coatings</i> , 2022 , 12, 122	2.9	1
51	Amorphizing noble metal chalcogenide catalysts at the single-layer limit towards hydrogen production. <i>Nature Catalysis</i> , 2022 , 5, 212-221	36.5	14
50	Electrically switchable van der Waals magnon valves. <i>Nature Communications</i> , 2021 , 12, 6279	17.4	4
49	Discovery of Dome-Shaped Superconducting Phase and Anisotropic Transport in a van der Waals Layered Candidate NbIrTe under Pressure. <i>Advanced Science</i> , 2021 , e2103250	13.6	3
48	Direct Laser Patterning of a 2D WSe ₂ Logic Circuit. <i>Advanced Functional Materials</i> , 2021 , 31, 2009549	15.6	6
47	Exfoliated FePS ₃ nanosheets for T ₁ -weighted magnetic resonance imaging-guided near-infrared photothermal therapy in vivo. <i>Science China Materials</i> , 2021 , 64, 2613-2623	7.1	4
46	Mid-Infrared Photodetection of Type-II Dirac Semimetal 1T-PtTe Grown by Molecular Beam Epitaxy. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 22757-22764	9.5	8
45	Dynamical evolution of anisotropic response of type-II Weyl semimetal TaIrTe under ultrafast photoexcitation. <i>Light: Science and Applications</i> , 2021 , 10, 101	16.7	8
44	Penta-PdPSe: A New 2D Pentagonal Material with Highly In-Plane Optical, Electronic, and Optoelectronic Anisotropy. <i>Advanced Materials</i> , 2021 , 33, e2102541	24	27
43	Ternary Ta PdS Atomic Layers for an Ultrahigh Broadband Photoresponsive Phototransistor. <i>Advanced Materials</i> , 2021 , 33, e2005607	24	25
42	Few-layered CuInP ₂ S ₆ nanosheet with sulfur vacancy boosting photocatalytic hydrogen evolution. <i>CrystEngComm</i> , 2021 , 23, 591-598	3.3	10
41	Room-temperature nonlinear Hall effect and wireless radiofrequency rectification in Weyl semimetal TaIrTe. <i>Nature Nanotechnology</i> , 2021 , 16, 421-425	28.7	21
40	Van der Waals engineering of ferroelectric heterostructures for long-retention memory. <i>Nature Communications</i> , 2021 , 12, 1109	17.4	29
39	Field-Effect Transistors: Low-Symmetry PdSe ₂ for High Performance Thermoelectric Applications (Adv. Funct. Mater. 52/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070347	15.6	3
38	Low-Symmetry PdSe ₂ for High Performance Thermoelectric Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 2004896	15.6	23
37	Band Engineering: Band Structure Engineering of Interfacial Semiconductors Based on Atomically Thin Lead Iodide Crystals (Adv. Mater. 17/2019). <i>Advanced Materials</i> , 2019 , 31, 1970121	24	
36	Nonlinear photoresponse of type-II Weyl semimetals. <i>Nature Materials</i> , 2019 , 18, 476-481	27	104

35	Band Structure Engineering of Interfacial Semiconductors Based on Atomically Thin Lead Iodide Crystals. <i>Advanced Materials</i> , 2019 , 31, e1806562	24	49
34	Van der Waals negative capacitance transistors. <i>Nature Communications</i> , 2019 , 10, 3037	17.4	71
33	Spatially dispersive circular photogalvanic effect in a Weyl semimetal. <i>Nature Materials</i> , 2019 , 18, 955-962	27	58
32	Self-gating in semiconductor electrocatalysis. <i>Nature Materials</i> , 2019 , 18, 1098-1104	27	84
31	Ternary chalcogenide Ta ₂ NiS ₅ nanosheets for broadband pulse generation in ultrafast fiber lasers. <i>Nanophotonics</i> , 2019 , 9, 2341-2349	6.3	12
30	In-Plane Anisotropic Thermal Conductivity of Few-Layered Transition Metal Dichalcogenide Td-WTe. <i>Advanced Materials</i> , 2019 , 31, e1804979	24	29
29	Atomically thin noble metal dichalcogenide: a broadband mid-infrared semiconductor. <i>Nature Communications</i> , 2018 , 9, 1545	17.4	267
28	Anisotropic Ordering in 1T MoS ₂ and Tungsten Ditelluride Layers Alloyed with Sulfur and Selenium. <i>ACS Nano</i> , 2018 , 12, 894-901	16.7	35
27	New Frontiers on van der Waals Layered Metal Phosphorous Trichalcogenides. <i>Advanced Functional Materials</i> , 2018 , 28, 1802151	15.6	125
26	Lithiation-induced amorphization of Pd ₃ P ₂ S ₈ for highly efficient hydrogen evolution. <i>Nature Catalysis</i> , 2018 , 1, 460-468	36.5	153
25	Preparation of Ultrathin Two-Dimensional Ti Ta S O Nanosheets as Highly Efficient Photothermal Agents. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7842-7846	16.4	50
24	Preparation of Ultrathin Two-Dimensional TixTa1-xSyOz Nanosheets as Highly Efficient Photothermal Agents. <i>Angewandte Chemie</i> , 2017 , 129, 7950-7954	3.6	10
23	Two-dimensional non-volatile programmable p-n junctions. <i>Nature Nanotechnology</i> , 2017 , 12, 901-906	28.7	196
22	High Mobility 2D Palladium Diselenide Field-Effect Transistors with Tunable Ambipolar Characteristics. <i>Advanced Materials</i> , 2017 , 29, 1602969	24	180
21	A novel Pd ₂ Se ₃ two-dimensional phase driven by interlayer fusion in layered PdSe ₂ . <i>Microscopy and Microanalysis</i> , 2017 , 23, 1700-1701	0.5	1
20	High-quality monolayer superconductor NbSe grown by chemical vapour deposition. <i>Nature Communications</i> , 2017 , 8, 394	17.4	199
19	PdSe: Pentagonal Two-Dimensional Layers with High Air Stability for Electronics. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14090-14097	16.4	318
18	Controllable Synthesis of Atomically Thin Type-II Weyl Semimetal WTe Nanosheets: An Advanced Electrode Material for All-Solid-State Flexible Supercapacitors. <i>Advanced Materials</i> , 2017 , 29, 1701909	24	81

17	Signatures of a time-reversal symmetric Weyl semimetal with only four Weyl points. <i>Nature Communications</i> , 2017 , 8, 942	17.4	57
16	Novel Pd ₂ Se ₃ Two-Dimensional Phase Driven by Interlayer Fusion in Layered PdSe ₂ . <i>Physical Review Letters</i> , 2017 , 119, 016101	7.4	86
15	Large-Area and High-Quality 2D Transition Metal Telluride. <i>Advanced Materials</i> , 2017 , 29, 1603471	24	140
14	Single-Layer Ternary Chalcogenide Nanosheet as a Fluorescence-Based "Capture-Release" Biomolecular Nanosensor. <i>Small</i> , 2017 , 13, 1601925	11	24
13	Metal-Semiconductor Phase-Transition in WSe ₂ Te Monolayer. <i>Advanced Materials</i> , 2017 , 29, 1603991	24	88
12	High-Electron-Mobility and Air-Stable 2D Layered PtSe FETs. <i>Advanced Materials</i> , 2017 , 29, 1604230	24	368
11	Pressure-Induced Phase Transition in Weyl Semimetallic WTe ₂ . <i>Small</i> , 2017 , 13, 1701887	11	20
10	Room-temperature ferroelectricity in CuInP ₂ S ₆ ultrathin flakes. <i>Nature Communications</i> , 2016 , 7, 12357	17.4	355
9	Extraordinarily Strong Interlayer Interaction in 2D Layered PtS ₂ . <i>Advanced Materials</i> , 2016 , 28, 2399-407	24	322
8	Optoelectronic properties of atomically thin ReSSe with weak interlayer coupling. <i>Nanoscale</i> , 2016 , 8, 5826-34	7.7	27
7	Discovery of a new type of topological Weyl fermion semimetal state in MoWTe ₂ . <i>Nature Communications</i> , 2016 , 7, 13643	17.4	134
6	Fast Photoresponse from 1T Tin Diselenide Atomic Layers. <i>Advanced Functional Materials</i> , 2016 , 26, 137-145	14.5	125
5	High-Yield Exfoliation of Ultrathin Two-Dimensional Ternary Chalcogenide Nanosheets for Highly Sensitive and Selective Fluorescence DNA Sensors. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10430-6	16.4	187
4	Controlled Synthesis of Organic/Inorganic van der Waals Solid for Tunable Light-Matter Interactions. <i>Advanced Materials</i> , 2015 , 27, 7800-8	24	94
3	Van der Waals p-n Junction Based on an Organic/Inorganic Heterostructure. <i>Advanced Functional Materials</i> , 2015 , 25, 5865-5871	15.6	76
2	Strong Piezoelectricity in 3R-MoS ₂ Flakes. <i>Advanced Electronic Materials</i> , 2101131	6.4	1
1	Direct Light Orbital Angular Momentum Detection in Mid-Infrared Based on Type-II Weyl Semimetal TaIrTe ₄ . <i>Advanced Materials</i> , 2201229	24	1