

Peng Yu

List of Publications by Citations

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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 | High-Electron-Mobility and Air-Stable 2D Layered PtSe FETs. <i>Advanced Materials</i> , 2017 , 29, 1604230 | 24 | 368 |
| 51 | Room-temperature ferroelectricity in CuInP2S6 ultrathin flakes. <i>Nature Communications</i> , 2016 , 7, 12357 | 17.4 | 355 |
| 50 | Extraordinarily Strong Interlayer Interaction in 2D Layered PtS2. <i>Advanced Materials</i> , 2016 , 28, 2399-407 | 24 | 322 |
| 49 | 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 |
| 48 | Atomically thin noble metal dichalcogenide: a broadband mid-infrared semiconductor. <i>Nature Communications</i> , 2018 , 9, 1545 | 17.4 | 267 |
| 47 | High-quality monolayer superconductor NbSe grown by chemical vapour deposition. <i>Nature Communications</i> , 2017 , 8, 394 | 17.4 | 199 |
| 46 | Two-dimensional non-volatile programmable p-n junctions. <i>Nature Nanotechnology</i> , 2017 , 12, 901-906 | 28.7 | 196 |
| 45 | 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 |
| 44 | High Mobility 2D Palladium Diselenide Field-Effect Transistors with Tunable Ambipolar Characteristics. <i>Advanced Materials</i> , 2017 , 29, 1602969 | 24 | 180 |
| 43 | Lithiation-induced amorphization of Pd3P2S8 for highly efficient hydrogen evolution. <i>Nature Catalysis</i> , 2018 , 1, 460-468 | 36.5 | 153 |
| 42 | Large-Area and High-Quality 2D Transition Metal Telluride. <i>Advanced Materials</i> , 2017 , 29, 1603471 | 24 | 140 |
| 41 | Discovery of a new type of topological Weyl fermion semimetal state in MoWTe. <i>Nature Communications</i> , 2016 , 7, 13643 | 17.4 | 134 |
| 40 | New Frontiers on van der Waals Layered Metal Phosphorous Trichalcogenides. <i>Advanced Functional Materials</i> , 2018 , 28, 1802151 | 15.6 | 125 |
| 39 | Fast Photoresponse from 1T Tin Diselenide Atomic Layers. <i>Advanced Functional Materials</i> , 2016 , 26, 137-145 | 15.5 | 125 |
| 38 | Nonlinear photoresponse of type-II Weyl semimetals. <i>Nature Materials</i> , 2019 , 18, 476-481 | 27 | 104 |
| 37 | Controlled Synthesis of Organic/Inorganic van der Waals Solid for Tunable Light-Matter Interactions. <i>Advanced Materials</i> , 2015 , 27, 7800-8 | 24 | 94 |
| 36 | Metal-Semiconductor Phase-Transition in WSe Te Monolayer. <i>Advanced Materials</i> , 2017 , 29, 1603991 | 24 | 88 |

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|----|---|------|----|
| 35 | 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 |
| 34 | Self-gating in semiconductor electrocatalysis. <i>Nature Materials</i> , 2019 , 18, 1098-1104 | 27 | 84 |
| 33 | 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 |
| 32 | Van der Waals p-n Junction Based on an Organic-Inorganic Heterostructure. <i>Advanced Functional Materials</i> , 2015 , 25, 5865-5871 | 15.6 | 76 |
| 31 | Van der Waals negative capacitance transistors. <i>Nature Communications</i> , 2019 , 10, 3037 | 17.4 | 71 |
| 30 | Spatially dispersive circular photogalvanic effect in a Weyl semimetal. <i>Nature Materials</i> , 2019 , 18, 955-962 | 27 | 58 |
| 29 | Signatures of a time-reversal symmetric Weyl semimetal with only four Weyl points. <i>Nature Communications</i> , 2017 , 8, 942 | 17.4 | 57 |
| 28 | 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 |
| 27 | Band Structure Engineering of Interfacial Semiconductors Based on Atomically Thin Lead Iodide Crystals. <i>Advanced Materials</i> , 2019 , 31, e1806562 | 24 | 49 |
| 26 | Anisotropic Ordering in 1T-Molybdenum and Tungsten Ditelluride Layers Alloyed with Sulfur and Selenium. <i>ACS Nano</i> , 2018 , 12, 894-901 | 16.7 | 35 |
| 25 | In-Plane Anisotropic Thermal Conductivity of Few-Layered Transition Metal Dichalcogenide Td-WTe. <i>Advanced Materials</i> , 2019 , 31, e1804979 | 24 | 29 |
| 24 | Van der Waals engineering of ferroelectric heterostructures for long-retention memory. <i>Nature Communications</i> , 2021 , 12, 1109 | 17.4 | 29 |
| 23 | Optoelectronic properties of atomically thin ReSSe with weak interlayer coupling. <i>Nanoscale</i> , 2016 , 8, 5826-34 | 7.7 | 27 |
| 22 | 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 |
| 21 | Ternary Ta PdS Atomic Layers for an Ultrahigh Broadband Photoresponsive Phototransistor. <i>Advanced Materials</i> , 2021 , 33, e2005607 | 24 | 25 |
| 20 | Single-Layer Ternary Chalcogenide Nanosheet as a Fluorescence-Based "Capture-Release" Biomolecular Nanosensor. <i>Small</i> , 2017 , 13, 1601925 | 11 | 24 |
| 19 | Low-Symmetry PdSe ₂ for High Performance Thermoelectric Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 2004896 | 15.6 | 23 |
| 18 | Room-temperature nonlinear Hall effect and wireless radiofrequency rectification in Weyl semimetal TaIrTe. <i>Nature Nanotechnology</i> , 2021 , 16, 421-425 | 28.7 | 21 |

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|----|---|------|----|
| 17 | Pressure-Induced Phase Transition in Weyl Semimetallic WTe. <i>Small</i> , 2017 , 13, 1701887 | 11 | 20 |
| 16 | Amorphizing noble metal chalcogenide catalysts at the single-layer limit towards hydrogen production. <i>Nature Catalysis</i> , 2022 , 5, 212-221 | 36.5 | 14 |
| 15 | 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 |
| 14 | Preparation of Ultrathin Two-Dimensional TixTa1-xSyOz Nanosheets as Highly Efficient Photothermal Agents. <i>Angewandte Chemie</i> , 2017 , 129, 7950-7954 | 3.6 | 10 |
| 13 | Few-layered CuInP ₂ S ₆ nanosheet with sulfur vacancy boosting photocatalytic hydrogen evolution. <i>CrystEngComm</i> , 2021 , 23, 591-598 | 3.3 | 10 |
| 12 | 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 |
| 11 | 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 |
| 10 | Direct Laser Patterning of a 2D WSe ₂ Logic Circuit. <i>Advanced Functional Materials</i> , 2021 , 31, 2009549 | 15.6 | 6 |
| 9 | Electrically switchable van der Waals magnon valves. <i>Nature Communications</i> , 2021 , 12, 6279 | 17.4 | 4 |
| 8 | 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 |
| 7 | 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 |
| 6 | 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 |
| 5 | 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 |
| 4 | Atomically Thin 2D van der Waals Magnetic Materials: Fabrications, Structure, Magnetic Properties and Applications. <i>Coatings</i> , 2022 , 12, 122 | 2.9 | 1 |
| 3 | Strong Piezoelectricity in 3R-MoS ₂ Flakes. <i>Advanced Electronic Materials</i> , 2101131 | 6.4 | 1 |
| 2 | Direct Light Orbital Angular Momentum Detection in Mid-Infrared Based on Type-II Weyl Semimetal TaIrTe. <i>Advanced Materials</i> , 2201229 | 24 | 1 |
| 1 | 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 | |