

Yu Chen

List of Publications by Year in descending order

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46
papers

6,053
citations

218381

26
h-index

233125

45
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all docs

46
docs citations

46
times ranked

9252
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	Lateral epitaxial growth of two-dimensional layered semiconductor heterojunctions. <i>Nature Nanotechnology</i> , 2014, 9, 1024-1030.	15.6	1,056
3	Electroluminescence and Photocurrent Generation from Atomically Sharp WSe ₂ /MoS ₂ Heterojunction <i>pn</i> Diodes. <i>Nano Letters</i> , 2014, 14, 5590-5597.	4.5	937
4	Strain-induced direct \leftrightarrow indirect bandgap transition and phonon modulation in monolayer WS ₂ . <i>Nano Research</i> , 2015, 8, 2562-2572.	5.8	323
5	High-quality monolayer superconductor NbSe ₂ grown by chemical vapour deposition. <i>Nature Communications</i> , 2017, 8, 394.	5.8	290
6	High Mobility 2D Palladium Diselenide Field \leftrightarrow Effect Transistors with Tunable Ambipolar Characteristics. <i>Advanced Materials</i> , 2017, 29, 1602969.	11.1	251
7	2D vanadium carbide MX ₂ enzyme to alleviate ROS-mediated inflammatory and neurodegenerative diseases. <i>Nature Communications</i> , 2021, 12, 2203.	5.8	222
8	Electrically Tunable Valley-Light Emitting Diode (vLED) Based on CVD-Grown Monolayer WS ₂ . <i>Nano Letters</i> , 2016, 16, 1560-1567.	4.5	175
9	Nitrogen and phosphorus codoped hierarchically porous carbon as an efficient sulfur host for Li-S batteries. <i>Energy Storage Materials</i> , 2017, 6, 112-118.	9.5	135
10	Two-dimensional biomaterials: material science, biological effect and biomedical engineering applications. <i>Chemical Society Reviews</i> , 2021, 50, 11381-11485.	18.7	129
11	Room-temperature 2D semiconductor activated vertical-cavity surface-emitting lasers. <i>Nature Communications</i> , 2017, 8, 543.	5.8	102
12	InSe monolayer: synthesis, structure and ultra-high second-harmonic generation. <i>2D Materials</i> , 2018, 5, 025019.	2.0	92
13	Toward High Energy Organic Cathodes for Li \leftrightarrow ion Batteries: A Case Study of Vat Dye/Graphene Composites. <i>Advanced Functional Materials</i> , 2017, 27, 1603603.	7.8	90
14	Synthesis of Co \leftrightarrow Doped MoS ₂ Monolayers with Enhanced Valley Splitting. <i>Advanced Materials</i> , 2020, 32, e1906536.	11.1	84
15	Controlled Synthesis of Atomically Thin 1T-TaS ₂ for Tunable Charge Density Wave Phase Transitions. <i>Chemistry of Materials</i> , 2016, 28, 7613-7618.	3.2	75
16	Epitaxial Synthesis of Monolayer PtSe ₂ Single Crystal on MoSe ₂ with Strong Interlayer Coupling. <i>ACS Nano</i> , 2019, 13, 10929-10938.	7.3	72
17	Remarkable anisotropic phonon response in uniaxially strained few-layer black phosphorus. <i>Nano Research</i> , 2015, 8, 3944-3953.	5.8	68
18	Engineering Valley Polarization of Monolayer WS ₂ : A Physical Doping Approach. <i>Small</i> , 2019, 15, e1805503.	5.2	62

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19	Large-Area Atomic Layers of the Charge-Density-Wave Conductor TiSe_2 . <i>Advanced Materials</i> , 2018, 30, 1704382.	11.1	60
20	Dual confinement of polysulfides in boron-doped porous carbon sphere/graphene hybrid for advanced Li-S batteries. <i>Nano Research</i> , 2018, 11, 4562-4573.	5.8	54
21	Light-Tunable 1T-TaS_2 Charge-Density-Wave Oscillators. <i>ACS Nano</i> , 2018, 12, 11203-11210.	7.3	51
22	Engineering Morphologies of Cobalt Pyrophosphates Nanostructures toward Greatly Enhanced Electrocatalytic Performance of Oxygen Evolution Reaction. <i>Small</i> , 2018, 14, e1801068.	5.2	45
23	In-Plane Anisotropic Thermal Conductivity of Few-Layered Transition Metal Dichalcogenide Td_2WTe_2 . <i>Advanced Materials</i> , 2019, 31, e1804979.	11.1	45
24	Enhancing and controlling valley magnetic response in MoS_2/WS_2 heterostructures by all-optical route. <i>Nature Communications</i> , 2019, 10, 4226.	5.8	38
25	Highly anisotropic thermoelectric properties of black phosphorus crystals. <i>2D Materials</i> , 2019, 6, 045009.	2.0	33
26	High-performance electronics and optoelectronics of monolayer tungsten diselenide full film from pre-seeding strategy. <i>Informa Mater</i> , 2021, 3, 1455-1469.	8.5	32
27	Raman scattering investigation of twisted WS_2/MoS_2 heterostructures: interlayer mechanical coupling versus charge transfer. <i>Nano Research</i> , 2021, 14, 2215-2223.	5.8	29
28	Unveiling exceptionally robust valley contrast in AA- and AB-stacked bilayer WS_2 . <i>Nanoscale Horizons</i> , 2019, 4, 396-403.	4.1	28
29	Room Temperature Commensurate Charge Density Wave on Epitaxially Grown Bilayer 2H-Tantalum Sulfide on Hexagonal Boron Nitride. <i>ACS Nano</i> , 2020, 14, 3917-3926.	7.3	27
30	Visualizing the Anomalous Charge Density Wave States in Graphene/ NbSe_2 Heterostructures. <i>Advanced Materials</i> , 2020, 32, e2003746.	11.1	23
31	Room-temperature continuous-wave vertical-cavity surface-emitting lasers based on 2D layered organic-inorganic hybrid perovskites. <i>APL Materials</i> , 2021, 9, 071106.	2.2	21
32	Engineering vanadium carbide MXene as multienzyme mimetics for efficient in vivo ischemic stroke treatment. <i>Chemical Engineering Journal</i> , 2022, 440, 135810.	6.6	21
33	Engineering the Li Storage Properties of Graphene Anodes: Defect Evolution and Pore Structure Regulation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 33712-33722.	4.0	20
34	Anti-Stokes Photoluminescence of van der Waals Layered Semiconductor PbI_2 . <i>Advanced Optical Materials</i> , 2017, 5, 1700609.	3.6	20
35	Tunable excitonic emission of monolayer WS_2 for the optical detection of DNA nucleobases. <i>Nano Research</i> , 2018, 11, 1744-1754.	5.8	20
36	Probing magnetic-proximity-effect enlarged valley splitting in monolayer WSe_2 by photoluminescence. <i>Nano Research</i> , 2018, 11, 6252-6259.	5.8	20

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37	Continuous-Wave Vertical Cavity Surface-Emitting Lasers based on Single Crystalline Lead Halide Perovskites. <i>Advanced Optical Materials</i> , 2021, 9, 2001982.	3.6	16
38	Synthesis of Atomically Thin 1T-TaSe ₂ with a Strongly Enhanced Charge-Density-Wave Order. <i>Advanced Functional Materials</i> , 2020, 30, 2001903.	7.8	15
39	Synthesis of porous silicon nano-wires and the emission of red luminescence. <i>Applied Surface Science</i> , 2013, 282, 259-263.	3.1	14
40	Preparation of silica nanowires using porous silicon as Si source. <i>Applied Surface Science</i> , 2011, 258, 1470-1473.	3.1	9
41	Observation of Strong Valley Magnetic Response in Monolayer Transition Metal Dichalcogenide Alloys of Mo _{0.5} W _{0.5} Se ₂ and Mo _{0.5} W _{0.5} Se ₂ /WS ₂ Heterostructures. <i>ACS Nano</i> , 2021, 15, 8397-8406.	7.3	8
42	Spatial variations of valley splitting in monolayer transition metal dichalcogenide. <i>Informa-Materials</i> , 2020, 2, 585-592.	8.5	5
43	Photoluminescence of silicon nanostructures prepared via hydrothermal growth progress. <i>Applied Surface Science</i> , 2012, 258, 8078-8082.	3.1	4
44	Deterministic and Scalable Generation of Exciton Emitters in 2D Semiconductor Nanodisks. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	3
45	Hard-templated engineering of versatile 2D amorphous metal oxide nanosheets. <i>Nanotechnology</i> , 2022, 33, 245602.	1.3	3
46	Optical characterization of two-dimensional semiconductors. , 2020, , 135-166.		1