

Tianyi Zhang

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6701474/tianyi-zhang-publications-by-year.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40
papers

945
citations

17
h-index

30
g-index

44
ext. papers

1,304
ext. citations

13.2
avg, IF

4.32
L-index

#	Paper	IF	Citations
40	Room-temperature Observation of Near-intrinsic Exciton Linewidth in Monolayer WS ₂ . <i>Advanced Materials</i> , 2022 , e2108721	24	2
39	Room-Temperature Observation of Near-Intrinsic Exciton Linewidth in Monolayer WS ₂ (Adv. Mater. 15/2022). <i>Advanced Materials</i> , 2022 , 34, 2270115	24	
38	Quantification and Healing of Defects in Atomically Thin Molybdenum Disulfide: Beyond the Controlled Creation of Atomic Defects. <i>ACS Nano</i> , 2021 , 15, 9658-9669	16.7	11
37	Direct growth of monolayer 1T $\bar{2}$ H MoS ₂ heterostructures using KCl-assisted CVD process. <i>2D Materials</i> , 2021 , 8, 025033	5.9	4
36	Directional Modulation of Exciton Emission Using Single Dielectric Nanospheres. <i>Advanced Materials</i> , 2021 , 33, e2007236	24	5
35	Second- and third-order optical susceptibilities across excitons states in 2D monolayer transition metal dichalcogenides. <i>2D Materials</i> , 2021 , 8, 035010	5.9	9
34	Multiple excitations and temperature study of the disorder-induced Raman bands in MoS ₂ . <i>2D Materials</i> , 2021 , 8, 035042	5.9	2
33	Dielectric Nanospheres: Directional Modulation of Exciton Emission Using Single Dielectric Nanospheres (Adv. Mater. 20/2021). <i>Advanced Materials</i> , 2021 , 33, 2170153	24	0
32	One-step solid-state pyrolysis of bio-wastes to synthesize multi-hierarchical porous carbon for ultra-long life supercapacitors. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 2320-2327	7.8	7
31	Confined Crack Propagation in MoS Monolayers by Creating Atomic Vacancies. <i>ACS Nano</i> , 2021 , 15, 121016216 6	16.7	6
30	Photodegradation Protection in 2D In-Plane Heterostructures Revealed by Hyperspectral Nanoimaging: The Role of Nanointerface 2D Alloys. <i>ACS Nano</i> , 2021 , 15, 2447-2457	16.7	5
29	Wafer-Scale Epitaxial Growth of Unidirectional WS Monolayers on Sapphire. <i>ACS Nano</i> , 2021 , 15, 2532-2541 51	16.7	51
28	Spin-dependent vibronic response of a carbon radical ion in two-dimensional WS ₂ . <i>Nature Communications</i> , 2021 , 12, 7287	17.4	2
27	Universal Substitutional Doping of Transition Metal Dichalcogenides by Liquid-Phase Precursor-Assisted Synthesis. <i>ACS Nano</i> , 2020 , 14, 4326-4335	16.7	44
26	Functional hetero-interfaces in atomically thin materials. <i>Materials Today</i> , 2020 , 37, 74-92	21.8	10
25	Nonlinear Dark-Field Imaging of One-Dimensional Defects in Monolayer Dichalcogenides. <i>Nano Letters</i> , 2020 , 20, 284-291	11.5	21
24	Second harmonic generation in two-dimensional transition metal dichalcogenides with growth and post-synthesis defects. <i>2D Materials</i> , 2020 , 7, 045020	5.9	6

23	Monolayer Vanadium-Doped Tungsten Disulfide: A Room-Temperature Dilute Magnetic Semiconductor. <i>Advanced Science</i> , 2020 , 7, 2001174	13.6	33
22	Spontaneous chemical functionalization via coordination of Au single atoms on monolayer MoS. <i>Science Advances</i> , 2020 , 6,	14.3	22
21	Superconductivity enhancement in phase-engineered molybdenum carbide/disulfide vertical heterostructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 19685-19693	11.5	4
20	Catalysis-free transformation of non-graphitising carbons into highly crystalline graphite. <i>Communications Materials</i> , 2020 , 1,	6	4
19	2D Materials for Universal Thermal Imaging of Micro- and Nanodevices: An Application to Gallium Oxide Electronics. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 2945-2953	4	14
18	Intentional carbon doping reveals CH as an abundant charged impurity in nominally undoped synthetic WS ₂ and WSe ₂ . <i>2D Materials</i> , 2020 , 7, 031003	5.9	11
17	Carbon doping of WS monolayers: Bandgap reduction and p-type doping transport. <i>Science Advances</i> , 2019 , 5, eaav5003	14.3	70
16	Dark-Exciton-Mediated Fano Resonance from a Single Gold Nanostructure on Monolayer WS at Room Temperature. <i>Small</i> , 2019 , 15, e1900982	11	16
15	Dark Excitons: Dark-Exciton-Mediated Fano Resonance from a Single Gold Nanostructure on Monolayer WS ₂ at Room Temperature (Small 31/2019). <i>Small</i> , 2019 , 15, 1970164	11	
14	Clean Transfer of 2D Transition Metal Dichalcogenides Using Cellulose Acetate for Atomic Resolution Characterizations. <i>ACS Applied Nano Materials</i> , 2019 , 2, 5320-5328	5.6	17
13	Nanoscale mapping of quasiparticle band alignment. <i>Nature Communications</i> , 2019 , 10, 3283	17.4	19
12	Defect-Controlled Nucleation and Orientation of WSe on hBN: A Route to Single-Crystal Epitaxial Monolayers. <i>ACS Nano</i> , 2019 , 13, 3341-3352	16.7	70
11	Electrochemical Polishing of Two-Dimensional Materials. <i>ACS Nano</i> , 2019 , 13, 78-86	16.7	17
10	Angstrom-Size Defect Creation and Ionic Transport through Pores in Single-Layer MoS. <i>Nano Letters</i> , 2018 , 18, 1651-1659	11.5	86
9	Tunable Fano Resonance and Plasmon-Exciton Coupling in Single Au Nanotriangles on Monolayer WS at Room Temperature. <i>Advanced Materials</i> , 2018 , 30, e1705779	24	56
8	Tunable Resonance Coupling in Single Si Nanoparticle-Monolayer WS Structures. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16690-16697	9.5	54
7	Fano Resonances: Tunable Fano Resonance and Plasmon-Exciton Coupling in Single Au Nanotriangles on Monolayer WS ₂ at Room Temperature (Adv. Mater. 22/2018). <i>Advanced Materials</i> , 2018 , 30, 1870155	24	
6	Monolayer WS Nanopores for DNA Translocation with Light-Adjustable Sizes. <i>ACS Nano</i> , 2017 , 11, 1937-1945	18.7	70

5	Transfer of monolayer TMD WS and Raman study of substrate effects. <i>Scientific Reports</i> , 2017 , 7, 43037	4.9	41
4	Pressure Sensors: Ultrasensitive Pressure Detection of Few-Layer MoS ₂ (Adv. Mater. 4/2017). <i>Advanced Materials</i> , 2017 , 29,	24	11
3	Ultrasensitive Pressure Detection of Few-Layer MoS. <i>Advanced Materials</i> , 2017 , 29, 1603266	24	56
2	High-energy-density, all-solid-state microsupercapacitors with three-dimensional interdigital electrodes of carbon/polymer electrolyte composite. <i>Nanotechnology</i> , 2016 , 27, 045701	3-4	34
1	Highly conductive, twistable and bendable polypyrrole-carbon nanotube fiber for efficient supercapacitor electrodes. <i>RSC Advances</i> , 2015 , 5, 22015-22021	3-7	52