

Hanyu Zhang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2367075/publications.pdf>

Version: 2024-02-01

35
papers

1,443
citations

393982

19
h-index

377514

34
g-index

37
all docs

37
docs citations

37
times ranked

2640
citing authors

#	ARTICLE	IF	CITATIONS
1	Stabilizing the heavily-doped and metallic phase of MoS ₂ monolayers with surface functionalization. 2D Materials, 2022, 9, 015033.	2.0	5
2	Ultrastrong Coupling Leads to Slowed Cooling of Hot Excitons in Few-Layer Transition-Metal Dichalcogenides. Journal of Physical Chemistry C, 2022, 126, 8710-8719.	1.5	6
3	Interplay between microstructure, defect states, and mobile charge generation in transition metal dichalcogenide heterojunctions. Nanoscale, 2021, 13, 8188-8198.	2.8	2
4	Mechanisms of Hydrogen Evolution Reaction in Two-Dimensional Nitride MXenes Using In Situ X-Ray Absorption Spectroelectrochemistry. ACS Catalysis, 2021, 11, 3128-3136.	5.5	28
5	Atomlike interaction and optically tunable giant band-gap renormalization in large-area atomically thin MoS ₂ . Physical Review B, 2021, 104, .	1.1	15
6	Probing Activities of Individual Catalytic Nanoflakes by Tunneling Mode of Scanning Electrochemical Microscopy. Journal of Physical Chemistry C, 2021, 125, 25525-25532.	1.5	7
7	Modulating donor-acceptor transition energies in phosphorus-boron co-doped silicon nanocrystals via X- and L-type ligands. Faraday Discussions, 2020, 222, 201-216.	1.6	9
8	Plasmonic Hot Hole Transfer in Gold Nanoparticle-Decorated Transition Metal Dichalcogenide Nanosheets. ACS Photonics, 2020, 7, 197-202.	3.2	21
9	Measuring Photoexcited Free Charge Carriers in Mono- to Few-Layer Transition-Metal Dichalcogenides with Steady-State Microwave Conductivity. Journal of Physical Chemistry Letters, 2020, 11, 99-107.	2.1	11
10	Interference Provides Clarity: Direct Observation of 2D Materials at Fluid-Fluid Interfaces. ACS Nano, 2020, 14, 777-790.	7.3	12
11	Spatially Resolved Persistent Photoconductivity in MoS ₂ -WS ₂ Lateral Heterostructures. ACS Nano, 2020, 14, 14080-14090.	7.3	36
12	Wide Band Gap Chalcogenide Semiconductors. Chemical Reviews, 2020, 120, 4007-4055.	23.0	246
13	Plasmon-Mediated Coherent Superposition of Discrete Excitons under Strong Exciton-Plasmon Coupling in Few-Layer MoS ₂ at Room Temperature. ACS Photonics, 2020, 7, 1129-1134.	3.2	15
14	Disentangling oxygen and water vapor effects on optoelectronic properties of monolayer tungsten disulfide. Nanoscale, 2020, 12, 8344-8354.	2.8	11
15	Applying Dynamic Strain on Thin Oxide Films Immobilized on a Pseudoelastic Nickel-Titanium Alloy. Journal of Visualized Experiments, 2020, , .	0.2	0
16	Microsecond charge separation at heterojunctions between transition metal dichalcogenide monolayers and single-walled carbon nanotubes. Materials Horizons, 2019, 6, 2103-2111.	6.4	17
17	Nanoscale mapping of hydrogen evolution on metallic and semiconducting MoS ₂ nanosheets. Nanoscale Horizons, 2019, 4, 619-624.	4.1	46
18	Pseudocapacitive Storage in Nanolayered Ti ₂ NT _x MXene Using Mg-Ion Electrolyte. ACS Applied Nano Materials, 2019, 2, 2785-2795.	2.4	92

#	ARTICLE	IF	CITATIONS
19	Electrocatalytic and Optoelectronic Characteristics of the Two-Dimensional Titanium Nitride $\text{Ti}_4\text{N}_3\text{T}_x$ MXene. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 11812-11823.	4.0	87
20	Unique interfacial thermodynamics of few-layer 2D MoS_2 for (photo)electrochemical catalysis. <i>Energy and Environmental Science</i> , 2019, 12, 1648-1656.	15.6	25
21	Balancing the Hydrogen Evolution Reaction, Surface Energetics, and Stability of Metallic MoS_2 Nanosheets via Covalent Functionalization. <i>Journal of the American Chemical Society</i> , 2018, 140, 441-450.	6.6	241
22	Dynamics of Photocatalytic Hydrogen Production in Aqueous Dispersions of Monolayer-Rich Tungsten Disulfide. <i>ACS Energy Letters</i> , 2018, 3, 2223-2229.	8.8	26
23	Imaging the Thickness of Passivation Layers for Crystalline Silicon with Micron-Scale Spatial Resolution Using Spectral Photoluminescence. <i>Solar Rrl</i> , 2017, 1, 1700157.	3.1	3
24	Tailoring photoelectrochemical properties of semiconducting transition metal dichalcogenide nanolayers with porphyrin functionalization. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11233-11238.	2.7	28
25	Engineering Chemically Exfoliated Large-Area Two-Dimensional MoS_2 Nanolayers with Porphyrins for Improved Light Harvesting. <i>ChemPhysChem</i> , 2016, 17, 2854-2862.	1.0	32
26	Photodynamic inactivation of methicillin-resistant <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> : A metalloporphyrin comparison. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 165, 51-57.	1.7	43
27	Dynamic and Progressive Control of DNA Origami Conformation by Modulating DNA Helicity with Chemical Adducts. <i>ACS Nano</i> , 2016, 10, 4989-4996.	7.3	61
28	DNA binding of Pd(TC3), a conformable cationic porphyrin with a long-lived triplet state. <i>Dalton Transactions</i> , 2016, 45, 14277-14284.	1.6	0
29	Understanding Solvent Effects on the Properties of Two-Dimensional Transition Metal Dichalcogenides. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8864-8869.	4.0	67
30	Modulating Optoelectronic Properties of Two-Dimensional Transition Metal Dichalcogenide Semiconductors by Photoinduced Charge Transfer. <i>ACS Nano</i> , 2016, 10, 1671-1680.	7.3	154
31	Regeneration of Light-Harvesting Complexes via Dynamic Replacement of Photodegraded Chromophores. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7833-7837.	4.0	5
32	Accessibility and External versus Intercalative Binding to DNA As Assessed by Oxygen-Induced Quenching of the Palladium(II)-Containing Cationic Porphyrins Pd(T4) and Pd(D4). <i>Biochemistry</i> , 2014, 53, 714-724.	1.2	22
33	Understanding Photophysical Interactions of Semiconducting Carbon Nanotubes with Porphyrin Chromophores. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11612-11619.	1.5	21
34	Multiplexed Optical Detection of Plasma Porphyrins Using DNA Aptamer-Functionalized Carbon Nanotubes. <i>Analytical Chemistry</i> , 2013, 85, 8391-8396.	3.2	22
35	DNA Oligonucleotide Templated Nanohybrids Using Electronic Type Sorted Carbon Nanotubes for Light Harvesting. <i>Advanced Materials</i> , 2012, 24, 5447-5451.	11.1	21