

# Yifei Yu

## List of Publications by Year in descending order

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35  
papers

5,196  
citations

218677

26  
h-index

395702

33  
g-index

36  
all docs

36  
docs citations

36  
times ranked

9501  
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled Scalable Synthesis of Uniform, High-Quality Monolayer and Few-layer MoS <sub>2</sub> Films. Scientific Reports, 2013, 3, 1866.	3.3	753
2	Layer-Dependent Electrocatalysis of MoS <sub>2</sub> for Hydrogen Evolution. Nano Letters, 2014, 14, 553-558.	9.1	667
3	All The Catalytic Active Sites of MoS <sub>2</sub> for Hydrogen Evolution. Journal of the American Chemical Society, 2016, 138, 16632-16638.	13.7	664
4	Many-Body Effects in Valleytronics: Direct Measurement of Valley Lifetimes in Single-Layer MoS <sub>2</sub> . Nano Letters, 2014, 14, 202-206.	9.1	431
5	Surface-Energy-Assisted Perfect Transfer of Centimeter-Scale Monolayer and Few-Layer MoS <sub>2</sub> Films onto Arbitrary Substrates. ACS Nano, 2014, 8, 11522-11528.	14.6	367
6	Equally Efficient Interlayer Exciton Relaxation and Improved Absorption in Epitaxial and Nonepitaxial MoS <sub>2</sub> /WS <sub>2</sub> Heterostructures. Nano Letters, 2015, 15, 486-491.	9.1	337
7	Activating MoS <sub>2</sub> for pH-Universal Hydrogen Evolution Catalysis. Journal of the American Chemical Society, 2017, 139, 16194-16200.	13.7	164
8	Exciton-dominated Dielectric Function of Atomically Thin MoS <sub>2</sub> Films. Scientific Reports, 2015, 5, 16996.	3.3	155
9	Engineering Substrate Interactions for High Luminescence Efficiency of Transition-Metal Dichalcogenide Monolayers. Advanced Functional Materials, 2016, 26, 4733-4739.	14.9	154
10	Engineering the Composition and Crystallinity of Molybdenum Sulfide for High-Performance Electrocatalytic Hydrogen Evolution. ACS Catalysis, 2015, 5, 448-455.	11.2	141
11	Role of Boundary Layer Diffusion in Vapor Deposition Growth of Chalcogenide Nanosheets: The Case of GeS. ACS Nano, 2012, 6, 8868-8877.	14.6	137
12	Fundamental limits of exciton-exciton annihilation for light emission in transition metal dichalcogenide monolayers. Physical Review B, 2016, 93, .	3.2	129
13	Exciton valley relaxation in a single layer of $WS_2$ measured by ultrafast spectroscopy. Physical Review B, 2014, 90, .	3.2	115
14	Dependence of coupling of quasi 2-D MoS <sub>2</sub> with substrates on substrate types, probed by temperature dependent Raman scattering. Nanoscale, 2014, 6, 4920-4927.	5.6	104
15	Effects of substrate type and material-substrate bonding on high-temperature behavior of monolayer WS <sub>2</sub> . Nano Research, 2015, 8, 2686-2697.	10.4	103
16	Dynamic Structural Response and Deformations of Monolayer MoS <sub>2</sub> Visualized by Femtosecond Electron Diffraction. Nano Letters, 2015, 15, 6889-6895.	9.1	93
17	Substrate Mediation in Vapor Deposition Growth of Layered Chalcogenide Nanoplates: A Case Study of SnSe <sub>2</sub> . Journal of Physical Chemistry C, 2013, 117, 6469-6475.	3.1	86
18	Giant Gating Tunability of Optical Refractive Index in Transition Metal Dichalcogenide Monolayers. Nano Letters, 2017, 17, 3613-3618.	9.1	81

#	ARTICLE	IF	CITATIONS
19	Immunity to Contact Scaling in MoS <sub>2</sub> Transistors Using in Situ Edge Contacts. Nano Letters, 2019, 19, 5077-5085.	9.1	76
20	MAGNETIC NANOCHAINS: A REVIEW. Nano, 2011, 06, 1-17.	1.0	72
21	Epitaxial Nanosheetâ€“Nanowire Heterostructures. Nano Letters, 2013, 13, 948-953.	9.1	54
22	Ultrafast Electronic and Structural Response of Monolayer MoS <sub>2</sub> under Intense Photoexcitation Conditions. ACS Nano, 2014, 8, 10734-10742.	14.6	49
23	Room-Temperature Electronâ€“Hole Liquid in Monolayer MoS <sub>2</sub> . ACS Nano, 2019, 13, 10351-10358.	14.6	49
24	Dynamic Optical Tuning of Interlayer Interactions in the Transition Metal Dichalcogenides. Nano Letters, 2017, 17, 7761-7766.	9.1	46
25	In-Plane and Interfacial Thermal Conduction of Two-Dimensional Transition-Metal Dichalcogenides. Physical Review Applied, 2020, 13, .	3.8	38
26	Enhancing Multifunctionalities of Transition-Metal Dichalcogenide Monolayers <i>via</i> Cation Intercalation. ACS Nano, 2017, 11, 9390-9396.	14.6	35
27	<i>In Situ</i> Monitoring of the Thermal-Annealing Effect in a Monolayer of $\text{MoS}_2$ Physical Review Applied, 2017, 7, .	3.8	24
28	Convergent ion beam alteration of 2D materials and metal-2D interfaces. 2D Materials, 2019, 6, 034005.	4.4	24
29	Ripples near edge terminals in MoS <sub>2</sub> few layers and pyramid nanostructures. Applied Physics Letters, 2016, 108, .	3.3	14
30	A general route to synthesize water-dispersive noble metalâ€“iron oxide bifunctional hybrid nanoparticles. Dalton Transactions, 2012, 41, 346-350.	3.3	12
31	Giant enhancement of exciton diffusivity in two-dimensional semiconductors. Science Advances, 2020, 6, .	10.3	12
32	One-Pot Size and Interior-Cavity Controlled Synthesis of ZnO Hollow Micro-/Nano-Structured Spheres. Journal of Nanoscience and Nanotechnology, 2012, 12, 3990-3996.	0.9	5
33	Surface-enhanced Raman scattering of monolayer transition metal dichalcogenides on Ag nanorod arrays. Optics Letters, 2019, 44, 5493.	3.3	5
34	Ultrafast valley relaxation dynamics in single layer semiconductors. Proceedings of SPIE, 2014, , .	0.8	0
35	Ultrafast atomic-scale structural response in monolayer and multilayer transition metal dichalcogenides. , 2016, , .		0