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	Giant enhancement of exciton diffusivity in two-dimensional semiconductors. Science Advances, 2020, 6, .	10.3	12
2	In-Plane and Interfacial Thermal Conduction of Two-Dimensional Transition-Metal Dichalcogenides. Physical Review Applied, 2020, 13, .	3.8	38
3	Immunity to Contact Scaling in MoS₂ Transistors Using in Situ Edge Contacts. Nano Letters, 2019, 19, 5077-5085.	9.1	76
4	Room-Temperature Electronâ€"Hole Liquid in Monolayer MoS₂. ACS Nano, 2019, 13, 10351-10358.	14.6	49
5	Convergent ion beam alteration of 2D materials and metal-2D interfaces. 2D Materials, 2019, 6, 034005.	4.4	24
6	Surface-enhanced Raman scattering of monolayer transition metal dichalcogenides on Ag nanorod arrays. Optics Letters, 2019, 44, 5493.	3.3	5
7	Giant Gating Tunability of Optical Refractive Index in Transition Metal Dichalcogenide Monolayers. Nano Letters, 2017, 17, 3613-3618.	9.1	81
8	<i>In Situ</i> Monitoring of the Thermal-Annealing Effect in a Monolayer of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MoS</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></m Physical Review Applied, 2017, 7, .	3.8	24
9	Activating MoS₂ for pH-Universal Hydrogen Evolution Catalysis. Journal of the American Chemical Society, 2017, 139, 16194-16200.	13.7	164
10	Enhancing Multifunctionalities of Transition-Metal Dichalcogenide Monolayers <i>via</i> Cation Intercalation. ACS Nano, 2017, 11, 9390-9396.	14.6	35
11	Dynamic Optical Tuning of Interlayer Interactions in the Transition Metal Dichalcogenides. Nano Letters, 2017, 17, 7761-7766.	9.1	46
12	Ultrafast atomic-scale structural response in monolayer and multilayer transition metal dichalcogenides. , 2016, , .		0
13	All The Catalytic Active Sites of MoS₂ for Hydrogen Evolution. Journal of the American Chemical Society, 2016, 138, 16632-16638.	13.7	664
14	Ripples near edge terminals in MoS2 few layers and pyramid nanostructures. Applied Physics Letters, 2016, 108, .	3.3	14
15	Fundamental limits of exciton-exciton annihilation for light emission in transition metal dichalcogenide monolayers. Physical Review B, 2016, 93, .	3.2	129
16	Engineering Substrate Interactions for High Luminescence Efficiency of Transitionâ€Metal Dichalcogenide Monolayers. Advanced Functional Materials, 2016, 26, 4733-4739.	14.9	154
17	Exciton-dominated Dielectric Function of Atomically Thin MoS2 Films. Scientific Reports, 2015, 5, 16996.	3.3	155
18	Effects of substrate type and material-substrate bonding on high-temperature behavior of monolayer WS2. Nano Research, 2015, 8, 2686-2697.	10.4	103

#	Article	IF	Citations
19	Dynamic Structural Response and Deformations of Monolayer MoS₂ Visualized by Femtosecond Electron Diffraction. Nano Letters, 2015, 15, 6889-6895.	9.1	93
20	Equally Efficient Interlayer Exciton Relaxation and Improved Absorption in Epitaxial and Nonepitaxial MoS₂/WS₂ Heterostructures. Nano Letters, 2015, 15, 486-491.	9.1	337
21	Engineering the Composition and Crystallinity of Molybdenum Sulfide for High-Performance Electrocatalytic Hydrogen Evolution. ACS Catalysis, 2015, 5, 448-455.	11.2	141
22	Ultrafast valley relaxation dynamics in single layer semiconductors. Proceedings of SPIE, 2014, , .	0.8	0
23	Many-Body Effects in Valleytronics: Direct Measurement of Valley Lifetimes in Single-Layer MoS₂. Nano Letters, 2014, 14, 202-206.	9.1	431
24	Dependence of coupling of quasi 2-D MoS₂ with substrates on substrate types, probed by temperature dependent Raman scattering. Nanoscale, 2014, 6, 4920-4927.	5.6	104
25	Layer-Dependent Electrocatalysis of MoS₂ for Hydrogen Evolution. Nano Letters, 2014, 14, 553-558.	9.1	667
26	Surface-Energy-Assisted Perfect Transfer of Centimeter-Scale Monolayer and Few-Layer MoS₂ Films onto Arbitrary Substrates. ACS Nano, 2014, 8, 11522-11528.	14.6	367
27	Ultrafast Electronic and Structural Response of Monolayer MoS₂ under Intense Photoexcitation Conditions. ACS Nano, 2014, 8, 10734-10742.	14.6	49
28	Exciton valley relaxation in a single layer of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="normal">WS</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math>measured by ultrafast spectroscopy. Physical Review B, 2014, 90, .	3.2	115
29	Epitaxial Nanosheetâ€"Nanowire Heterostructures. Nano Letters, 2013, 13, 948-953.	9.1	54
30	Substrate Mediation in Vapor Deposition Growth of Layered Chalcogenide Nanoplates: A Case Study of SnSe₂. Journal of Physical Chemistry C, 2013, 117, 6469-6475.	3.1	86
31	Controlled Scalable Synthesis of Uniform, High-Quality Monolayer and Few-layer MoS2 Films. Scientific Reports, 2013, 3, 1866.	3.3	753
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	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
34	A general route to synthesize water-dispersive noble metalâ€"iron oxide bifunctional hybrid nanoparticles. Dalton Transactions, 2012, 41, 346-350.	3.3	12
35	MAGNETIC NANOCHAINS: A REVIEW. Nano, 2011, 06, 1-17.	1.0	72