Yifei Yu

List of Publications by Year in Descending Order

33 papers	4,194 citations	24 h-index	36 g-index
36 ext. papers	4,737 ext. citations	9.4 avg, IF	5.38 L-index

#	Paper	IF	Citations
33	Giant enhancement of exciton diffusivity in two-dimensional semiconductors. *Science Advances*, **2020**, 6,	14.3	5
32	In-Plane and Interfacial Thermal Conduction of Two-Dimensional Transition-Metal Dichalcogenides. *Physical Review Applied*, **2020**, 13,	4.3	19
31	Room-Temperature Electron-Hole Liquid in Monolayer MoS. *ACS Nano*, **2019**, 13, 10351-10358	16.7	23
30	Convergent ion beam alteration of 2D materials and metal-2D interfaces. *2D Materials*, **2019**, 6, 034005	5.9	20
29	Immunity to Contact Scaling in MoS Transistors Using in Situ Edge Contacts. *Nano Letters*, **2019**, 19, 5077-5085	11.5	44
28	Surface-enhanced Raman scattering of monolayer transition metal dichalcogenides on Ag nanorod arrays. *Optics Letters*, **2019**, 44, 5493-5496	3	2
27	Giant Gating Tunability of Optical Refractive Index in Transition Metal Dichalcogenide Monolayers. *Nano Letters*, **2017**, 17, 3613-3618	11.5	59
26	In Situ Monitoring of the Thermal-Annealing Effect in a Monolayer of MoS2. *Physical Review Applied* , **2017**, 7,	4.3	18
25	Activating MoS for pH-Universal Hydrogen Evolution Catalysis. *Journal of the American Chemical Society*, **2017**, 139, 16194-16200	16.4	118
24	Enhancing Multifunctionalities of Transition-Metal Dichalcogenide Monolayers via Cation Intercalation. *ACS Nano*, **2017**, 11, 9390-9396	16.7	30
23	Dynamic Optical Tuning of Interlayer Interactions in the Transition Metal Dichalcogenides. *Nano Letters*, **2017**, 17, 7761-7766	11.5	29
22	Fundamental limits of exciton-exciton annihilation for light emission in transition metal dichalcogenide monolayers. *Physical Review B*, **2016**, 93,	3.3	97
21	Engineering Substrate Interactions for High Luminescence Efficiency of Transition-Metal Dichalcogenide Monolayers. *Advanced Functional Materials*, **2016**, 26, 4733-4739	15.6	112
20	All The Catalytic Active Sites of MoS for Hydrogen Evolution. *Journal of the American Chemical Society*, **2016**, 138, 16632-16638	16.4	495
19	Ripples near edge terminals in MoS2 few layers and pyramid nanostructures. *Applied Physics Letters* , **2016**, 108, 081601	3.4	13
18	Dynamic Structural Response and Deformations of Monolayer MoS2 Visualized by Femtosecond Electron Diffraction. *Nano Letters*, **2015**, 15, 6889-95	11.5	70
17	Equally efficient interlayer exciton relaxation and improved absorption in epitaxial and nonepitaxial MoS2/WS2 heterostructures. *Nano Letters*, **2015**, 15, 486-91	11.5	282

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16	Engineering the Composition and Crystallinity of Molybdenum Sulfide for High-Performance Electrocatalytic Hydrogen Evolution. *ACS Catalysis*, **2015**, 5, 448-455	13.1	123
15	Exciton-dominated Dielectric Function of Atomically Thin MoS2 Films. *Scientific Reports*, **2015**, 5, 16996	4.9	114
14	Effects of substrate type and material-substrate bonding on high-temperature behavior of monolayer WS2. *Nano Research*, **2015**, 8, 2686-2697	10	86
13	Many-body effects in valleytronics: direct measurement of valley lifetimes in single-layer MoS2. *Nano Letters*, **2014**, 14, 202-6	11.5	381
12	Dependence of coupling of quasi 2-D MoS2 with substrates on substrate types, probed by temperature dependent Raman scattering. *Nanoscale*, **2014**, 6, 4920-7	7.7	78
11	Layer-dependent electrocatalysis of MoS2 for hydrogen evolution. *Nano Letters*, **2014**, 14, 553-8	11.5	580
10	Surface-energy-assisted perfect transfer of centimeter-scale monolayer and few-layer MoS2 films onto arbitrary substrates. *ACS Nano*, **2014**, 8, 11522-8	16.7	281
9	Ultrafast electronic and structural response of monolayer MoS2 under intense photoexcitation conditions. *ACS Nano*, **2014**, 8, 10734-42	16.7	46
8	Exciton valley relaxation in a single layer of WS2 measured by ultrafast spectroscopy. *Physical Review B*, **2014**, 90,	3.3	102
7	Epitaxial nanosheet-nanowire heterostructures. *Nano Letters*, **2013**, 13, 948-53	11.5	47
6	Substrate Mediation in Vapor Deposition Growth of Layered Chalcogenide Nanoplates: A Case Study of SnSe2. *Journal of Physical Chemistry C*, **2013**, 117, 6469-6475	3.8	71
5	Controlled scalable synthesis of uniform, high-quality monolayer and few-layer MoS2 films. *Scientific Reports*, **2013**, 3, 1866	4.9	651
4	Role of boundary layer diffusion in vapor deposition growth of chalcogenide nanosheets: the case of GeS. *ACS Nano*, **2012**, 6, 8868-77	16.7	118
3	A general route to synthesize water-dispersive noble metal-iron oxide bifunctional hybrid nanoparticles. *Dalton Transactions*, **2012**, 41, 346-50	4.3	12
2	One-pot size and interior-cavity controlled synthesis of ZnO hollow micro-/nano-structured spheres. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 3990-6	1.3	5
1	MAGNETIC NANOCHAINS: A REVIEW. *Nano*, **2011**, 06, 1-17	1.1	63