

# Yiling Yu

## List of Publications by Year in descending order

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33  
papers

2,042  
citations

331670

21  
h-index

454955

30  
g-index

33  
all docs

33  
docs citations

33  
times ranked

3564  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Exciton-dominated Dielectric Function of Atomically Thin MoS <sub>2</sub> Films. Scientific Reports, 2015, 5, 16996.	3.3	155
3	Engineering Substrate Interactions for High Luminescence Efficiency of Transition-Metal Dichalcogenide Monolayers. Advanced Functional Materials, 2016, 26, 4733-4739.	14.9	154
4	Low-loss composite photonic platform based on 2D semiconductor monolayers. Nature Photonics, 2020, 14, 256-262.	31.4	140
5	Low Energy Implantation into Transition-Metal Dichalcogenide Monolayers to Form Janus Structures. ACS Nano, 2020, 14, 3896-3906.	14.6	136
6	Fundamental limits of exciton-exciton annihilation for light emission in transition metal dichalcogenide monolayers. Physical Review B, 2016, 93, .	3.2	129
7	Dielectric Core-Shell Optical Antennas for Strong Solar Absorption Enhancement. Nano Letters, 2012, 12, 3674-3681.	9.1	106
8	Excitonic Dynamics in Janus MoSSe and WSSe Monolayers. Nano Letters, 2021, 21, 931-937.	9.1	86
9	Atomically Thin MoS <sub>2</sub> Narrowband and Broadband Light Superabsorbers. ACS Nano, 2016, 10, 7493-7499.	14.6	82
10	Giant Gating Tunability of Optical Refractive Index in Transition Metal Dichalcogenide Monolayers. Nano Letters, 2017, 17, 3613-3618.	9.1	81
11	Enhanced light-matter interaction in two-dimensional transition metal dichalcogenides. Reports on Progress in Physics, 2022, 85, 046401.	20.1	74
12	General Modal Properties of Optical Resonances in Subwavelength Nonspherical Dielectric Structures. Nano Letters, 2013, 13, 3559-3565.	9.1	69
13	Coupled leaky mode theory for light absorption in 2D, 1D, and 0D semiconductor nanostructures. Optics Express, 2012, 20, 13847.	3.4	64
14	Room-Temperature Electron-Hole Liquid in Monolayer MoS <sub>2</sub> . ACS Nano, 2019, 13, 10351-10358.	14.6	49
15	Dense Electron-Hole Plasma Formation and Ultralong Charge Lifetime in Monolayer MoS <sub>2</sub> via Material Tuning. Nano Letters, 2019, 19, 1104-1111.	9.1	41
16	Intrinsic Defects in MoS <sub>2</sub> Grown by Pulsed Laser Deposition: From Monolayers to Bilayers. ACS Nano, 2021, 15, 2858-2868.	14.6	40
17	In-Plane and Interfacial Thermal Conduction of Two-Dimensional Transition-Metal Dichalcogenides. Physical Review Applied, 2020, 13, .	3.8	38
18	Reversible Photoluminescence Tuning by Defect Passivation via Laser Irradiation on Aged Monolayer MoS <sub>2</sub> . ACS Applied Materials & Interfaces, 2019, 11, 38240-38246.	8.0	37

#	ARTICLE	IF	CITATIONS
19	Enhancing Multifunctionalities of Transition-Metal Dichalcogenide Monolayers <i>via</i> Cation Intercalation. ACS Nano, 2017, 11, 9390-9396.	14.6	35
20	Van der Waals Force Isolation of Monolayer MoS <sub>2</sub> . Advanced Materials, 2016, 28, 10055-10060.	21.0	34
21	Leaky mode engineering: A general design principle for dielectric optical antenna solar absorbers. Optics Communications, 2014, 314, 79-85.	2.1	23
22	Strain-Induced Growth of Twisted Bilayers during the Coalescence of Monolayer MoS <sub>2</sub> Crystals. ACS Nano, 2021, 15, 4504-4517.	14.6	19
23	In situ laser reflectivity to monitor and control the nucleation and growth of atomically thin 2D materials*. 2D Materials, 2020, 7, 025048.	4.4	14
24	Semiconductor Solar Superabsorbers. Scientific Reports, 2014, 4, 4107.	3.3	13
25	Giant enhancement of exciton diffusivity in two-dimensional semiconductors. Science Advances, 2020, 6, .	10.3	12
26	The phase shift of light scattering at sub-wavelength dielectric structures. Optics Express, 2013, 21, 5957.	3.4	10
27	Near Band-Edge Optical Excitation Leading to Catastrophic Ionization and Electron-Hole Liquid in Room-Temperature Monolayer MoS <sub>2</sub> . Physica Status Solidi (B): Basic Research, 2019, 256, 1900223.	1.5	9
28	Deterministic phase engineering for optical Fano resonances with arbitrary lineshape and frequencies. Optics Express, 2015, 23, 19154.	3.4	7
29	Understanding Substrate-Guided Assembly in van der Waals Epitaxy by <i>In Situ</i> Laser Crystallization within a Transmission Electron Microscope. ACS Nano, 2021, 15, 8638-8652.	14.6	7
30	Surface-enhanced Raman scattering of monolayer transition metal dichalcogenides on Ag nanorod arrays. Optics Letters, 2019, 44, 5493.	3.3	5
31	Giant electro-refractive modulation of monolayer WS <sub>2</sub> embedded in photonic structures. , 2018, , .		3
32	Composite photonic platform based on 2D semiconductor monolayers. , 2019, , .		2
33	Nonequilibrium synthesis and processing approaches to tailor heterogeneity in 2D materials. , 2022, , 221-258.		1