Linyou Cao

List of Publications by Year
in descending order

34 papers	3,085 citations	201674 27 h-index	377865 34 g-index
34 all docs	34 docs citations	34 times ranked	6084 citing authors

#	Article	IF	Citations
1	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
2	Equally Efficient Interlayer Exciton Relaxation and Improved Absorption in Epitaxial and Nonepitaxial MoS₂/WS₂ Heterostructures. Nano Letters, 2015, 15, 486-491.	9.1	337
3	Plasmon-Assisted Local Temperature Control to Pattern Individual Semiconductor Nanowires and Carbon Nanotubes. Nano Letters, 2007, 7, 3523-3527.	9.1	248
4	Enhanced Raman Scattering from Individual Semiconductor Nanocones and Nanowires. Physical Review Letters, 2006, 96, 157402.	7.8	168
5	Activating MoS₂ for pH-Universal Hydrogen Evolution Catalysis. Journal of the American Chemical Society, 2017, 139, 16194-16200.	13.7	164
6	Exciton-dominated Dielectric Function of Atomically Thin MoS2 Films. Scientific Reports, 2015, 5, 16996.	3.3	155
7	Engineering Substrate Interactions for High Luminescence Efficiency of Transitionâ€Metal Dichalcogenide Monolayers. Advanced Functional Materials, 2016, 26, 4733-4739.	14.9	154
8	Low-loss composite photonic platform based on 2D semiconductor monolayers. Nature Photonics, 2020, 14, 256-262.	31.4	140
9	Fundamental limits of exciton-exciton annihilation for light emission in transition metal dichalcogenide monolayers. Physical Review B, 2016, 93, .	3.2	129
10	Effects of substrate type and material-substrate bonding on high-temperature behavior of monolayer WS2. Nano Research, 2015, 8, 2686-2697.	10.4	103
11	Engineering Substrate Interaction To Improve Hydrogen Evolution Catalysis of Monolayer MoS₂ Films beyond Pt. ACS Nano, 2020, 14, 1707-1714.	14.6	97
12	Dynamic Structural Response and Deformations of Monolayer MoS₂ Visualized by Femtosecond Electron Diffraction. Nano Letters, 2015, 15, 6889-6895.	9.1	93
13	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
14	Atomically Thin MoS₂ Narrowband and Broadband Light Superabsorbers. ACS Nano, 2016, 10, 7493-7499.	14.6	82
15	Giant Gating Tunability of Optical Refractive Index in Transition Metal Dichalcogenide Monolayers. Nano Letters, 2017, 17, 3613-3618.	9.1	81
16	Immunity to Contact Scaling in MoS₂ Transistors Using in Situ Edge Contacts. Nano Letters, 2019, 19, 5077-5085.	9.1	76
17	Instability and Transport of Metal Catalyst in the Growth of Tapered Silicon Nanowires. Nano Letters, 2006, 6, 1852-1857.	9.1	65
18	Two-dimensional transition-metal dichalcogenide materials: Toward an age of atomic-scale photonics. MRS Bulletin, 2015, 40, 592-599.	3.5	61

#	Article	IF	Citations
19	Recording interfacial currents on the subnanometer length and femtosecond time scale by terahertz emission. Science Advances, 2019, 5, eaau0073.	10.3	50
20	Room-Temperature Electronâ€"Hole Liquid in Monolayer MoS₂. ACS Nano, 2019, 13, 10351-10358.	14.6	49
21	Dynamic Optical Tuning of Interlayer Interactions in the Transition Metal Dichalcogenides. Nano Letters, 2017, 17, 7761-7766.	9.1	46
22	Dense Electronâ€"Hole Plasma Formation and Ultralong Charge Lifetime in Monolayer MoS₂ via Material Tuning. Nano Letters, 2019, 19, 1104-1111.	9.1	41
23	Diamond-Hexagonal Semiconductor Nanocones with Controllable Apex Angle. Journal of the American Chemical Society, 2005, 127, 13782-13783.	13.7	40
24	In-Plane and Interfacial Thermal Conduction of Two-Dimensional Transition-Metal Dichalcogenides. Physical Review Applied, 2020, 13, .	3.8	38
25	Excitation of Local Field Enhancement on Silicon Nanowires. Nano Letters, 2008, 8, 601-605.	9.1	35
26	Enhancing Multifunctionalities of Transition-Metal Dichalcogenide Monolayers <i>via</i> Cation Intercalation. ACS Nano, 2017, 11, 9390-9396.	14.6	35
27	Van der Waals Force Isolation of Monolayer MoS₂. Advanced Materials, 2016, 28, 10055-10060.	21.0	34
28	<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
29	Convergent ion beam alteration of 2D materials and metal-2D interfaces. 2D Materials, 2019, 6, 034005.	4.4	24
30	Are 2D Interfaces Really Flat?. ACS Nano, 2022, 16, 5316-5324.	14.6	15
31	Emergent quantum materials. MRS Bulletin, 2020, 45, 340-347.	3.5	14
32	Semiconductor Solar Superabsorbers. Scientific Reports, 2014, 4, 4107.	3.3	13
33	Giant enhancement of exciton diffusivity in two-dimensional semiconductors. Science Advances, 2020, 6, .	10.3	12
34	Near Bandâ€Edge Optical Excitation Leading to Catastrophic Ionization and Electronâ€"Hole Liquid in Roomâ€Temperature Monolayer MoS 2. Physica Status Solidi (B): Basic Research, 2019, 256, 1900223.	1.5	9