Shisheng Li

List of Publications by Year in Descending Order

58 papers	2,363 citations	23 h-index	48 g-index
63 ext. papers	2,848 ext. citations	12 avg, IF	4.96 L-index

#	Paper	IF	Citations
58	Perspective on 2D material polaritons and innovative fabrication techniques. *Applied Physics Letters*, **2022**, 120, 040501	3.4	2
57	Probing Electronic States in Monolayer Semiconductors through Static and Transient Third-Harmonic Spectroscopies. *Advanced Materials*, **2021**, e2107104	24	0
56	Single-particle studies on plasmon enhanced photoluminescence of monolayer MoS by gold nanoparticles of different shapes.. *Journal of Chemical Physics*, **2021**, 155, 234201	3.9	1
55	Salt-assisted chemical vapor deposition of two-dimensional transition metal dichalcogenides. *IScience*, **2021**, 24, 103229	6.1	7
54	Deterministic Modification of CVD Grown Monolayer MoS2 with Optical Pulses. *Advanced Materials Interfaces*, **2021**, 8, 2002119	4.6	2
53	Quantifying photoinduced carriers transport in exciton-polariton coupling of MoS2 monolayers. *Npj 2D Materials and Applications*, **2021**, 5,	8.8	2
52	Tunable Doping of Rhenium and Vanadium into Transition Metal Dichalcogenides for Two-Dimensional Electronics. *Advanced Science*, **2021**, 8, e2004438	13.6	15
51	Two-dimensional alloyed transition metal dichalcogenide nanosheets: Synthesis and applications. *Chinese Chemical Letters*, **2021**,	8.1	11
50	Broadband Plasmon-Enhanced Four-Wave Mixing in Monolayer MoS. *Nano Letters*, **2021**, 21, 6321-6327	11.5	7
49	Structure, Preparation, and Applications of 2D Material-Based Metal–Semiconductor Heterostructures. *Small Structures*, **2021**, 2, 2000093	8.7	36
48	Enhancing stability by tuning element ratio in 2D transition metal chalcogenides. *Nano Research*, **2021**, 14, 1704-1710	10	5
47	Formation of Highly Doped Nanostripes in 2D Transition Metal Dichalcogenides via a Dislocation Climb Mechanism. *Advanced Materials*, **2021**, 33, e2007819	24	3
46	Giant All-Optical Modulation of Second-Harmonic Generation Mediated by Dark Excitons. *ACS Photonics*, **2021**, 8, 2320-2328	6.3	3
45	Mixed-Salt Enhanced Chemical Vapor Deposition of Two-Dimensional Transition Metal Dichalcogenides. *Chemistry of Materials*, **2021**, 33, 7301-7308	9.6	7
44	Single-step chemical vapour deposition of anti-pyramid MoS/WS vertical heterostructures. *Nanoscale*, **2021**, 13, 4537-4542	7.7	8
43	Ultrafast transient sub-bandgap absorption of monolayer MoS. *Light: Science and Applications*, **2021**, 10, 27	16.7	10
42	Na2SO4-Regulated High-Quality Growth of Transition Metal Dichalcogenides by Controlling Diffusion. *Chemistry of Materials*, **2020**, 32, 5616-5625	9.6	10

41	On/Off Boundary of Photocatalytic Activity between Single- and Bilayer MoS. *ACS Nano*, **2020**, 14, 6663-6672	16.7	16
40	Difference frequency generation in monolayer MoS. *Nanoscale*, **2020**, 12, 19638-19643	7.7	9
39	Growth of Large-Area Homogeneous Monolayer Transition-Metal Disulfides via a Molten Liquid Intermediate Process. *ACS Applied Materials & Interfaces*, **2020**, 12, 13174-13181	9.5	18
38	Template-Assisted Synthesis of Metallic 1T?-Sn0.3W0.7S2 Nanosheets for Hydrogen Evolution Reaction. *Advanced Functional Materials*, **2020**, 30, 1906069	15.6	31
37	Twist Angle-Dependent Optical Responses in Controllably Grown WS2 Vertical Homojunctions. *Chemistry of Materials*, **2020**, 32, 9721-9729	9.6	8
36	Seamlessly Splicing Metallic Sn Mo S at MoS Edge for Enhanced Photoelectrocatalytic Performance in Microreactor. *Advanced Science*, **2020**, 7, 2002172	13.6	14
35	Tunable Chemical Coupling in Two-Dimensional van der Waals Electrostatic Heterostructures. *ACS Nano*, **2019**, 13, 11214-11223	16.7	7
34	Synthesis and Transport Properties of Degenerate P-Type Nb-Doped WS2 Monolayers. *Chemistry of Materials*, **2019**, 31, 3534-3541	9.6	45
33	Wafer-scale and deterministic patterned growth of monolayer MoSvia vapor-liquid-solid method. *Nanoscale*, **2019**, 11, 16122-16129	7.7	40
32	Defect Heterogeneity in Monolayer WS2 Unveiled by Work Function Variance. *Chemistry of Materials*, **2019**, 31, 7970-7978	9.6	19
31	Shape-Engineered Synthesis of Atomically Thin 1T-SnS Catalyzed by Potassium Halides. *ACS Nano*, **2019**, 13, 8265-8274	16.7	26
30	Vapour-liquid-solid growth of monolayer MoS nanoribbons. *Nature Materials*, **2018**, 17, 535-542	27	185
29	Abnormal Near-Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization. *Advanced Materials*, **2018**, 30, e1801931	24	35
28	Revealing the Atomic Defects of WS2 Governing Its Distinct Optical Emissions. *Advanced Functional Materials*, **2018**, 28, 1704210	15.6	49
27	Black Phosphorus: Abnormal Near-Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization (Adv. Mater. 43/2018). *Advanced Materials*, **2018**, 30, 1870325	24	
26	Flaky nano-crystalline SnSe thin films for photoelectrochemical current generation.. *RSC Advances*, **2018**, 8, 32157-32163	3.7	7
25	Determination of Crystal Axes in Semimetallic T?-MoTe2 by Polarized Raman Spectroscopy. *Advanced Functional Materials*, **2017**, 27, 1604799	15.6	28
24	Two-step fabrication of single-layer rectangular SnSe flakes. *2D Materials*, **2017**, 4, 021026	5.9	43

23	Ultrafast charge transfer dynamics pathways in two-dimensional MoS-graphene heterostructures: a core-hole clock approach. *Physical Chemistry Chemical Physics*, **2017**, 19, 29954-29962	3.6	23
22	Rapid visualization of grain boundaries in monolayer MoS by multiphoton microscopy. *Nature Communications*, **2017**, 8, 15714	17.4	93
21	Exciton-Plasmon Coupling and Electromagnetically Induced Transparency in Monolayer Semiconductors Hybridized with Ag Nanoparticles. *Advanced Materials*, **2016**, 28, 2709-15	24	97
20	Discovery of a new type of topological Weyl fermion semimetal state in MoWTe. *Nature Communications*, **2016**, 7, 13643	17.4	134
19	Synthesis of high quality nitrogen-doped single-wall carbon nanotubes. *Science China Materials*, **2015**, 58, 603-610	7.1	6
18	Halide-assisted atmospheric pressure growth of large WSe2 and WS2 monolayer crystals. *Applied Materials Today*, **2015**, 1, 60-66	6.6	294
17	Breakdown of metallic single-wall carbon nanotube paths by NiO nanoparticle point etching for high performance thin film transistors. *Nanoscale*, **2015**, 7, 1280-4	7.7	3
16	Honeycomb-like single-wall carbon nanotube networks. *Journal of Materials Chemistry A*, **2014**, 2, 3308-3311	33	2
15	Double-wall carbon nanotube transparent conductive films with excellent performance. *Journal of Materials Chemistry A*, **2014**, 2, 1159-1164	13	32
14	In Situ TEM Observations on the Sulfur-Assisted Catalytic Growth of Single-Wall Carbon Nanotubes. *Journal of Physical Chemistry Letters*, **2014**, 5, 1427-32	6.4	22
13	Growth of a cup-stacked carbon nanotube carpet with a superhydrophobic surface. *New Carbon Materials*, **2013**, 28, 295-299	4.4	7
12	Growth of double-walled carbon nanotubes from silicon oxide nanoparticles. *Carbon*, **2013**, 56, 167-172	10.4	16
11	Wall-number selective growth of vertically aligned carbon nanotubes from FePt catalysts: a comparative study with Fe catalysts. *Journal of Materials Chemistry*, **2012**, 22, 14149		8
10	High temperature selective growth of single-walled carbon nanotubes with a narrow chirality distribution from a CoPt bimetallic catalyst. *Chemical Communications*, **2012**, 48, 2409-11	5.8	65
9	Enrichment of semiconducting single-walled carbon nanotubes by carbothermic reaction for use in all-nanotube field effect transistors. *ACS Nano*, **2012**, 6, 9657-61	16.7	27
8	Bulk synthesis of large diameter semiconducting single-walled carbon nanotubes by oxygen-assisted floating catalyst chemical vapor deposition. *Journal of the American Chemical Society*, **2011**, 133, 5232-5	16.4	118
7	Vertically Aligned Carbon Nanotubes Grown on Graphene Paper as Electrodes in Lithium-Ion Batteries and Dye-Sensitized Solar Cells. *Advanced Energy Materials*, **2011**, 1, 486-490	21.8	279
6	Metal-catalyst-free growth of single-walled carbon nanotubes. *Journal of the American Chemical Society*, **2009**, 131, 2082-3	16.4	235

5	Surface and interference coenhanced Raman scattering of graphene. *ACS Nano*, **2009**, 3, 933-9	16.7	81
4	Growth velocity and direct length-sorted growth of short single-walled carbon nanotubes by a metal-catalyst-free chemical vapor deposition process. *ACS Nano*, **2009**, 3, 3421-30	16.7	72
3	Manganese-Catalyzed Surface Growth of Single-Walled Carbon Nanotubes with High Efficiency. *Journal of Physical Chemistry C*, **2008**, 112, 19231-19235	3.8	34
2	Wafer-scale single crystals: crystal growth mechanisms, fabrication methods, and functional applications. *Journal of Materials Chemistry C*,	7.1	2
1	Molybdenum Disulfide/Double-Wall Carbon Nanotube Mixed-Dimensional Heterostructures. *Advanced Materials Interfaces*,2200193	4.6	1