

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Halide-assisted atmospheric pressure growth of large WSe <sub>2</sub> and WS <sub>2</sub> monolayer crystals. <i>Applied Materials Today</i> , <b>2015</b> , 1, 60-66	6.6	294
57	Vertically Aligned Carbon Nanotubes Grown on Graphene Paper as Electrodes in Lithium-Ion Batteries and Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 486-490	21.8	279
56	Metal-catalyst-free growth of single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 2082-3	16.4	235
55	Vapour-liquid-solid growth of monolayer MoS nanoribbons. <i>Nature Materials</i> , <b>2018</b> , 17, 535-542	27	185
54	Discovery of a new type of topological Weyl fermion semimetal state in MoWTe. <i>Nature Communications</i> , <b>2016</b> , 7, 13643	17.4	134
53	Bulk synthesis of large diameter semiconducting single-walled carbon nanotubes by oxygen-assisted floating catalyst chemical vapor deposition. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 5232-5	16.4	118
52	Exciton-Plasmon Coupling and Electromagnetically Induced Transparency in Monolayer Semiconductors Hybridized with Ag Nanoparticles. <i>Advanced Materials</i> , <b>2016</b> , 28, 2709-15	24	97
51	Rapid visualization of grain boundaries in monolayer MoS by multiphoton microscopy. <i>Nature Communications</i> , <b>2017</b> , 8, 15714	17.4	93
50	Surface and interference coenhanced Raman scattering of graphene. <i>ACS Nano</i> , <b>2009</b> , 3, 933-9	16.7	81
49	Growth velocity and direct length-sorted growth of short single-walled carbon nanotubes by a metal-catalyst-free chemical vapor deposition process. <i>ACS Nano</i> , <b>2009</b> , 3, 3421-30	16.7	72
48	High temperature selective growth of single-walled carbon nanotubes with a narrow chirality distribution from a CoPt bimetallic catalyst. <i>Chemical Communications</i> , <b>2012</b> , 48, 2409-11	5.8	65
47	Revealing the Atomic Defects of WS <sub>2</sub> Governing Its Distinct Optical Emissions. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1704210	15.6	49
46	Synthesis and Transport Properties of Degenerate P-Type Nb-Doped WS <sub>2</sub> Monolayers. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 3534-3541	9.6	45
45	Two-step fabrication of single-layer rectangular SnSe flakes. <i>2D Materials</i> , <b>2017</b> , 4, 021026	5.9	43
44	Wafer-scale and deterministic patterned growth of monolayer MoS <sub>2</sub> via vapor-liquid-solid method. <i>Nanoscale</i> , <b>2019</b> , 11, 16122-16129	7.7	40
43	Structure, Preparation, and Applications of 2D Material-Based Metal-Semiconductor Heterostructures. <i>Small Structures</i> , <b>2021</b> , 2, 2000093	8.7	36
42	Abnormal Near-Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801931	24	35

41	Manganese-Catalyzed Surface Growth of Single-Walled Carbon Nanotubes with High Efficiency. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 19231-19235	3.8	34
40	Double-wall carbon nanotube transparent conductive films with excellent performance. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 1159-1164	13	32
39	Template-Assisted Synthesis of Metallic 1T'-Sn <sub>0.3</sub> W <sub>0.7</sub> S <sub>2</sub> Nanosheets for Hydrogen Evolution Reaction. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1906069	15.6	31
38	Determination of Crystal Axes in Semimetallic T'-MoTe <sub>2</sub> by Polarized Raman Spectroscopy. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1604799	15.6	28
37	Enrichment of semiconducting single-walled carbon nanotubes by carbothermic reaction for use in all-nanotube field effect transistors. <i>ACS Nano</i> , <b>2012</b> , 6, 9657-61	16.7	27
36	Shape-Engineered Synthesis of Atomically Thin 1T-SnS Catalyzed by Potassium Halides. <i>ACS Nano</i> , <b>2019</b> , 13, 8265-8274	16.7	26
35	Ultrafast charge transfer dynamics pathways in two-dimensional MoS-graphene heterostructures: a core-hole clock approach. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 29954-29962	3.6	23
34	In Situ TEM Observations on the Sulfur-Assisted Catalytic Growth of Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 1427-32	6.4	22
33	Defect Heterogeneity in Monolayer WS <sub>2</sub> Unveiled by Work Function Variance. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 7970-7978	9.6	19
32	Growth of Large-Area Homogeneous Monolayer Transition-Metal Disulfides via a Molten Liquid Intermediate Process. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 13174-13181	9.5	18
31	On/Off Boundary of Photocatalytic Activity between Single- and Bilayer MoS. <i>ACS Nano</i> , <b>2020</b> , 14, 6663-6672	16.7	16
30	Growth of double-walled carbon nanotubes from silicon oxide nanoparticles. <i>Carbon</i> , <b>2013</b> , 56, 167-172	10.4	16
29	Tunable Doping of Rhenium and Vanadium into Transition Metal Dichalcogenides for Two-Dimensional Electronics. <i>Advanced Science</i> , <b>2021</b> , 8, e2004438	13.6	15
28	Seamlessly Splicing Metallic Sn Mo S at MoS Edge for Enhanced Photoelectrocatalytic Performance in Microreactor. <i>Advanced Science</i> , <b>2020</b> , 7, 2002172	13.6	14
27	Two-dimensional alloyed transition metal dichalcogenide nanosheets: Synthesis and applications. <i>Chinese Chemical Letters</i> , <b>2021</b> ,	8.1	11
26	Na <sub>2</sub> SO <sub>4</sub> -Regulated High-Quality Growth of Transition Metal Dichalcogenides by Controlling Diffusion. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 5616-5625	9.6	10
25	Ultrafast transient sub-bandgap absorption of monolayer MoS. <i>Light: Science and Applications</i> , <b>2021</b> , 10, 27	16.7	10
24	Difference frequency generation in monolayer MoS. <i>Nanoscale</i> , <b>2020</b> , 12, 19638-19643	7.7	9

23	Wall-number selective growth of vertically aligned carbon nanotubes from FePt catalysts: a comparative study with Fe catalysts. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 14149		8
22	Twist Angle-Dependent Optical Responses in Controllably Grown WS <sub>2</sub> Vertical Homojunctions. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 9721-9729	9.6	8
21	Single-step chemical vapour deposition of anti-pyramid MoS/WS vertical heterostructures. <i>Nanoscale</i> , <b>2021</b> , 13, 4537-4542	7.7	8
20	Tunable Chemical Coupling in Two-Dimensional van der Waals Electrostatic Heterostructures. <i>ACS Nano</i> , <b>2019</b> , 13, 11214-11223	16.7	7
19	Growth of a cup-stacked carbon nanotube carpet with a superhydrophobic surface. <i>New Carbon Materials</i> , <b>2013</b> , 28, 295-299	4.4	7
18	Salt-assisted chemical vapor deposition of two-dimensional transition metal dichalcogenides. <i>IScience</i> , <b>2021</b> , 24, 103229	6.1	7
17	Broadband Plasmon-Enhanced Four-Wave Mixing in Monolayer MoS. <i>Nano Letters</i> , <b>2021</b> , 21, 6321-6327	11.5	7
16	Flaky nano-crystalline SnSe thin films for photoelectrochemical current generation.. <i>RSC Advances</i> , <b>2018</b> , 8, 32157-32163	3.7	7
15	Mixed-Salt Enhanced Chemical Vapor Deposition of Two-Dimensional Transition Metal Dichalcogenides. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 7301-7308	9.6	7
14	Synthesis of high quality nitrogen-doped single-wall carbon nanotubes. <i>Science China Materials</i> , <b>2015</b> , 58, 603-610	7.1	6
13	Enhancing stability by tuning element ratio in 2D transition metal chalcogenides. <i>Nano Research</i> , <b>2021</b> , 14, 1704-1710	10	5
12	Breakdown of metallic single-wall carbon nanotube paths by NiO nanoparticle point etching for high performance thin film transistors. <i>Nanoscale</i> , <b>2015</b> , 7, 1280-4	7.7	3
11	Formation of Highly Doped Nanostripes in 2D Transition Metal Dichalcogenides via a Dislocation Climb Mechanism. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007819	24	3
10	Giant All-Optical Modulation of Second-Harmonic Generation Mediated by Dark Excitons. <i>ACS Photonics</i> , <b>2021</b> , 8, 2320-2328	6.3	3
9	Honeycomb-like single-wall carbon nanotube networks. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 3308-3311	3.1	2
8	Perspective on 2D material polaritons and innovative fabrication techniques. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 040501	3.4	2
7	Deterministic Modification of CVD Grown Monolayer MoS <sub>2</sub> with Optical Pulses. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2002119	4.6	2
6	Quantifying photoinduced carriers transport in exciton-polariton coupling of MoS <sub>2</sub> monolayers. <i>Npj 2D Materials and Applications</i> , <b>2021</b> , 5,	8.8	2

5	Wafer-scale single crystals: crystal growth mechanisms, fabrication methods, and functional applications. <i>Journal of Materials Chemistry C</i> ,	7.1	2
4	Single-particle studies on plasmon enhanced photoluminescence of monolayer MoS by gold nanoparticles of different shapes.. <i>Journal of Chemical Physics</i> , <b>2021</b> , 155, 234201	3.9	1
3	Molybdenum Disulfide/Double-Wall Carbon Nanotube Mixed-Dimensional Heterostructures. <i>Advanced Materials Interfaces</i> , 2200193	4.6	1
2	Probing Electronic States in Monolayer Semiconductors through Static and Transient Third-Harmonic Spectroscopies. <i>Advanced Materials</i> , <b>2021</b> , e2107104	24	0
1	Black Phosphorus: Abnormal Near-Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization (Adv. Mater. 43/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870325	24	