

# Weibing Chen

## List of Publications by Citations

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35  
papers

8,924  
citations

23  
h-index

35  
g-index

35  
ext. papers

10,065  
ext. citations

14.1  
avg, IF

5.81  
L-index

#	Paper	IF	Citations
35	Vertical and in-plane heterostructures from WS <sub>2</sub> /MoS <sub>2</sub> monolayers. <i>Nature Materials</i> , <b>2014</b> , 13, 1135-42	27	1580
34	Large-area vapor-phase growth and characterization of MoS <sub>2</sub> atomic layers on a SiO <sub>2</sub> substrate. <i>Small</i> , <b>2012</b> , 8, 966-71	11	1394
33	Vapour phase growth and grain boundary structure of molybdenum disulphide atomic layers. <i>Nature Materials</i> , <b>2013</b> , 12, 754-9	27	1384
32	Black phosphorus-monolayer MoS <sub>2</sub> van der Waals heterojunction p-n diode. <i>ACS Nano</i> , <b>2014</b> , 8, 8292-9	16.7	979
31	Janus Monolayer Transition-Metal Dichalcogenides. <i>ACS Nano</i> , <b>2017</b> , 11, 8192-8198	16.7	584
30	Chemical vapor deposition growth of crystalline monolayer MoSe <sub>2</sub> . <i>ACS Nano</i> , <b>2014</b> , 8, 5125-31	16.7	566
29	Plasmonic hot electron induced structural phase transition in a MoS <sub>2</sub> monolayer. <i>Advanced Materials</i> , <b>2014</b> , 26, 6467-71	24	429
28	Two-Step Growth of Two-Dimensional WSe <sub>2</sub> /MoSe <sub>2</sub> Heterostructures. <i>Nano Letters</i> , <b>2015</b> , 15, 6135-41	11.5	401
27	Ultrafast formation of interlayer hot excitons in atomically thin MoS <sub>2</sub> /WS <sub>2</sub> heterostructures. <i>Nature Communications</i> , <b>2016</b> , 7, 12512	17.4	240
26	Long-lived nanosecond spin relaxation and spin coherence of electrons in monolayer MoS <sub>2</sub> and WS <sub>2</sub> . <i>Nature Physics</i> , <b>2015</b> , 11, 830-834	16.2	214
25	Unveiling Active Sites for the Hydrogen Evolution Reaction on Monolayer MoS. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701955	24	184
24	Plasmonic pumping of excitonic photoluminescence in hybrid MoS <sub>2</sub> -Au nanostructures. <i>ACS Nano</i> , <b>2014</b> , 8, 12682-9	16.7	169
23	Surface functionalization of two-dimensional metal chalcogenides by Lewis acid-base chemistry. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 465-71	28.7	150
22	Brittle Fracture of 2D MoSe. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604201	24	95
21	Defect-Engineering-Enabled High-Efficiency All-Inorganic Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903448	24	75
20	Electron correlation in solids via density embedding theory. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 054113	13.3	66
19	Synthesis of High-Quality Graphene and Hexagonal Boron Nitride Monolayer In-Plane Heterostructure on Cu-Ni Alloy. <i>Advanced Science</i> , <b>2017</b> , 4, 1700076	13.6	60

18	Spin Coherence and Dephasing of Localized Electrons in Monolayer MoS <sub>2</sub> . <i>Nano Letters</i> , <b>2015</b> , 15, 8250-4	11.5	42
17	Temperature-Dependent Plasmon-Exciton Interactions in Hybrid Au/MoSe <sub>2</sub> Nanostructures. <i>ACS Photonics</i> , <b>2017</b> , 4, 1653-1660	6.3	38
16	Monolayer MoS Nanoribbon Transistors Fabricated by Scanning Probe Lithography. <i>Nano Letters</i> , <b>2019</b> , 19, 2092-2098	11.5	33
15	Lead-Free Double Perovskite Cs SnX : Facile Solution Synthesis and Excellent Stability. <i>Small</i> , <b>2019</b> , 15, e1901650	11	31
14	Highly Enhanced Photoluminescence of Monolayer MoS <sub>2</sub> with Self-Assembled Au Nanoparticle Arrays. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1700739	4.6	30
13	Lateral Monolayer MoSe <sub>2</sub> -WSe <sub>2</sub> p-n Heterojunctions with Giant Built-In Potentials. <i>Small</i> , <b>2020</b> , 16, e2002263	26.3	29
12	Ultrafast probes of electron-hole transitions between two atomic layers. <i>Nature Communications</i> , <b>2018</b> , 9, 1859	17.4	23
11	Quantification and promotion of interfacial interactions between carbon nanotubes and polymer derived ceramics. <i>Carbon</i> , <b>2015</b> , 95, 964-971	10.4	21
10	Solid-Vapor Reaction Growth of Transition-Metal Dichalcogenide Monolayers. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 10656-61	16.4	20
9	Quantum plasmonic hot-electron injection in lateral WSe <sub>2</sub> /MoSe <sub>2</sub> heterostructures. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	19
8	Direct Assessment of the Toxicity of Molybdenum Disulfide Atomically Thin Film and Microparticles via Cytotoxicity and Patch Testing. <i>Small</i> , <b>2018</b> , 14, e1702600	11	15
7	Unveil the Size-Dependent Mechanical Behaviors of Individual CNT/SiC Composite Nanofibers by In Situ Tensile Tests in SEM. <i>Small</i> , <b>2016</b> , 12, 4486-91	11	15
6	A Low-Cost and High-Efficiency Integrated Device toward Solar-Driven Water Splitting. <i>ACS Nano</i> , <b>2020</b> , 14, 5426-5434	16.7	14
5	Surface enhanced resonant Raman scattering in hybrid MoSe <sub>2</sub> @Au nanostructures. <i>Optics Express</i> , <b>2018</b> , 26, 29411-29423	3.3	8
4	Synergetic photoluminescence enhancement of monolayer MoS <sub>2</sub> surface plasmon resonance and defect repair.. <i>RSC Advances</i> , <b>2018</b> , 8, 23591-23598	3.7	7
3	Perovskite-Derivative Valleytronics. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004111	24	6
2	Ultrahighly Enhanced Performance of Single Cadmium Selenide Nanobelt by Plasmonic Gold Particles. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2019</b> , 216, 1900454	1.6	3
1	Pathways of Exciton Triggered Hot-Carrier Injection at Plasmonic Metal-Transition Metal Dichalcogenide Interface. <i>Advanced Optical Materials</i> , 2100070	8.1	0

