Weibing Chen

List of Publications by Year in Descending Order

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	A Low-Cost and High-Efficiency Integrated Device toward Solar-Driven Water Splitting. *ACS Nano*, **2020**, 14, 5426-5434	16.7	14
34	Lateral Monolayer MoSe -WSe p-n Heterojunctions with Giant Built-In Potentials. *Small*, **2020**, 16, e2002263	11	29
33	Perovskite-Derivative Valleytronics. *Advanced Materials*, **2020**, 32, e2004111	24	6
32	Lead-Free Double Perovskite Cs SnX : Facile Solution Synthesis and Excellent Stability. *Small*, **2019**, 15, e1901650	11	31
31	Defect-Engineering-Enabled High-Efficiency All-Inorganic Perovskite Solar Cells. *Advanced Materials* , **2019**, 31, e1903448	24	75
30	Ultrahighly Enhanced Performance of Single Cadmium Selenide Nanobelt by Plasmonic Gold Particles. *Physica Status Solidi (A) Applications and Materials Science*, **2019**, 216, 1900454	1.6	3
29	Monolayer MoS Nanoribbon Transistors Fabricated by Scanning Probe Lithography. *Nano Letters*, **2019**, 19, 2092-2098	11.5	33
28	Direct Assessment of the Toxicity of Molybdenum Disulfide Atomically Thin Film and Microparticles via Cytotoxicity and Patch Testing. *Small*, **2018**, 14, e1702600	11	15
27	Quantum plasmonic hot-electron injection in lateral WSe2/MoSe2 heterostructures. *Physical Review B*, **2018**, 98,	3.3	19
26	Ultrafast probes of electron-hole transitions between two atomic layers. *Nature Communications*, **2018**, 9, 1859	17.4	23
25	Surface enhanced resonant Raman scattering in hybrid MoSe@Au nanostructures. *Optics Express*, **2018**, 26, 29411-29423	3.3	8
24	Synergetic photoluminescence enhancement of monolayer MoS surface plasmon resonance and defect repair.. *RSC Advances*, **2018**, 8, 23591-23598	3.7	7
23	Temperature-Dependent Plasmon Exciton Interactions in Hybrid Au/MoSe2 Nanostructures. *ACS Photonics*, **2017**, 4, 1653-1660	6.3	38
22	Synthesis of High-Quality Graphene and Hexagonal Boron Nitride Monolayer In-Plane Heterostructure on Cu-Ni Alloy. *Advanced Science*, **2017**, 4, 1700076	13.6	60
21	Unveiling Active Sites for the Hydrogen Evolution Reaction on Monolayer MoS. *Advanced Materials*, **2017**, 29, 1701955	24	184
20	Janus Monolayer Transition-Metal Dichalcogenides. *ACS Nano*, **2017**, 11, 8192-8198	16.7	584
19	Highly Enhanced Photoluminescence of Monolayer MoS2 with Self-Assembled Au Nanoparticle Arrays. *Advanced Materials Interfaces*, **2017**, 4, 1700739	4.6	30

18	Brittle Fracture of 2D MoSe. *Advanced Materials*, **2017**, 29, 1604201	24	95
17	Ultrafast formation of interlayer hot excitons in atomically thin MoS2/WS2 heterostructures. *Nature Communications*, **2016**, 7, 12512	17.4	240
16	Surface functionalization of two-dimensional metal chalcogenides by Lewis acid-base chemistry. *Nature Nanotechnology*, **2016**, 11, 465-71	28.7	150
15	Solid-Vapor Reaction Growth of Transition-Metal Dichalcogenide Monolayers. *Angewandte Chemie - International Edition*, **2016**, 55, 10656-61	16.4	20
14	Unveil the Size-Dependent Mechanical Behaviors of Individual CNT/SiC Composite Nanofibers by In Situ Tensile Tests in SEM. *Small*, **2016**, 12, 4486-91	11	15
13	Two-Step Growth of Two-Dimensional WSe2/MoSe2 Heterostructures. *Nano Letters*, **2015**, 15, 6135-41	11.5	401
12	Long-lived nanosecond spin relaxation and spin coherence of electrons in monolayer MoS2 and WS2. *Nature Physics*, **2015**, 11, 830-834	16.2	214
11	Quantification and promotion of interfacial interactions between carbon nanotubes and polymer derived ceramics. *Carbon*, **2015**, 95, 964-971	10.4	21
10	Spin Coherence and Dephasing of Localized Electrons in Monolayer MoS *Nano Letters*, **2015**, 15, 8250-4	11.5	42
9	Chemical vapor deposition growth of crystalline monolayer MoSe2. *ACS Nano*, **2014**, 8, 5125-31	16.7	566
8	Electron correlation in solids via density embedding theory. *Journal of Chemical Physics*, **2014**, 141, 054113	3.9	66
7	Black phosphorus-monolayer MoS2 van der Waals heterojunction p-n diode. *ACS Nano*, **2014**, 8, 8292-9	16.7	979
6	Plasmonic hot electron induced structural phase transition in a MoS2 monolayer. *Advanced Materials*, **2014**, 26, 6467-71	24	429
5	Vertical and in-plane heterostructures from WS2/MoS2 monolayers. *Nature Materials*, **2014**, 13, 1135-42	27	1580
4	Plasmonic pumping of excitonic photoluminescence in hybrid MoS2-Au nanostructures. *ACS Nano*, **2014**, 8, 12682-9	16.7	169
3	Vapour phase growth and grain boundary structure of molybdenum disulphide atomic layers. *Nature Materials*, **2013**, 12, 754-9	27	1384
2	Large-area vapor-phase growth and characterization of MoS(2) atomic layers on a SiO(2) substrate. *Small*, **2012**, 8, 966-71	11	1394
1	Pathways of Exciton Triggered Hot-Carrier Injection at Plasmonic Metal ransition Metal Dichalcogenide Interface. *Advanced Optical Materials*,2100070	8.1	0