

Weibing Chen

List of Publications by Year in descending order

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35
papers

11,077
citations

218381

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all docs

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docs citations

35
times ranked

14606
citing authors

#	ARTICLE	IF	CITATIONS
1	Vertical and in-plane heterostructures from WS ₂ /MoS ₂ monolayers. Nature Materials, 2014, 13, 1135-1142.	13.3	1,918
2	Vapour phase growth and grain boundary structure of molybdenum disulphide atomic layers. Nature Materials, 2013, 12, 754-759.	13.3	1,590
3	Large-Area Vapor-Phase Growth and Characterization of MoS ₂ Atomic Layers on a SiO ₂ Substrate. Small, 2012, 8, 966-971.	5.2	1,556
4	Black Phosphorus "Monolayer MoS ₂ van der Waals Heterojunction p-n Diode. ACS Nano, 2014, 8, 8292-8299.	7.3	1,125
5	Janus Monolayer Transition-Metal Dichalcogenides. ACS Nano, 2017, 11, 8192-8198.	7.3	1,001
6	Chemical Vapor Deposition Growth of Crystalline Monolayer MoSe ₂ . ACS Nano, 2014, 8, 5125-5131.	7.3	694
7	Plasmonic Hot Electron Induced Structural Phase Transition in a MoS ₂ Monolayer. Advanced Materials, 2014, 26, 6467-6471.	11.1	516
8	Two-Step Growth of Two-Dimensional WSe ₂ /MoSe ₂ Heterostructures. Nano Letters, 2015, 15, 6135-6141.	4.5	479
9	Ultrafast formation of interlayer hot excitons in atomically thin MoS ₂ /WS ₂ heterostructures. Nature Communications, 2016, 7, 12512.	5.8	313
10	Long-lived nanosecond spin relaxation and spin coherence of electrons in monolayer MoS ₂ and WS ₂ . Nature Physics, 2015, 11, 830-834.	6.5	253
11	Unveiling Active Sites for the Hydrogen Evolution Reaction on Monolayer MoS ₂ . Advanced Materials, 2017, 29, 1701955.	11.1	249
12	Plasmonic Pumping of Excitonic Photoluminescence in Hybrid MoS ₂ -Au Nanostructures. ACS Nano, 2014, 8, 12682-12689.	7.3	198
13	Surface functionalization of two-dimensional metal chalcogenides by Lewis acid-base chemistry. Nature Nanotechnology, 2016, 11, 465-471.	15.6	197
14	Defect-Engineering Enabled High-Efficiency All-Inorganic Perovskite Solar Cells. Advanced Materials, 2019, 31, e1903448.	11.1	143
15	Brittle Fracture of 2D MoSe ₂ . Advanced Materials, 2017, 29, 1604201.	11.1	138
16	Synthesis of High-Quality Graphene and Hexagonal Boron Nitride Monolayer In-Plane Heterostructure on Cu-Ni Alloy. Advanced Science, 2017, 4, 1700076.	5.6	76
17	Electron correlation in solids via density embedding theory. Journal of Chemical Physics, 2014, 141, 054113.	1.2	75
18	Monolayer MoS ₂ Nanoribbon Transistors Fabricated by Scanning Probe Lithography. Nano Letters, 2019, 19, 2092-2098.	4.5	64

#	ARTICLE	IF	CITATIONS
19	Lead-Free Double Perovskite Cs ₂ SnX ₆ : Facile Solution Synthesis and Excellent Stability. <i>Small</i> , 2019, 15, e1901650.	5.2	56
20	Temperature-Dependent Plasmon-Exciton Interactions in Hybrid Au/MoSe ₂ Nanostructures. <i>ACS Photonics</i> , 2017, 4, 1653-1660.	3.2	51
21	Lateral Monolayer MoSe ₂ / WSe ₂ Heterojunctions with Giant Built-in Potentials. <i>Small</i> , 2020, 16, e2002263.	5.2	50
22	Spin Coherence and Dephasing of Localized Electrons in Monolayer MoS ₂ . <i>Nano Letters</i> , 2015, 15, 8250-8254.	4.5	49
23	Highly Enhanced Photoluminescence of Monolayer MoS ₂ with Self-Assembled Au Nanoparticle Arrays. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700739.	1.9	41
24	A Low-Cost and High-Efficiency Integrated Device toward Solar-Driven Water Splitting. <i>ACS Nano</i> , 2020, 14, 5426-5434.	7.3	36
25	Quantum plasmonic hot-electron injection in lateral WSe ₂ /MoSe ₂ heterostructures. <i>Physical Review B</i> , 2018, 98, .	1.1	31
26	Ultrafast probes of electron-hole transitions between two atomic layers. <i>Nature Communications</i> , 2018, 9, 1859.	5.8	30
27	Solid-Vapor Reaction Growth of Transition-Metal Dichalcogenide Monolayers. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10656-10661.	7.2	27
28	Quantification and promotion of interfacial interactions between carbon nanotubes and polymer derived ceramics. <i>Carbon</i> , 2015, 95, 964-971.	5.4	21
29	Direct Assessment of the Toxicity of Molybdenum Disulfide Atomically Thin Film and Microparticles via Cytotoxicity and Patch Testing. <i>Small</i> , 2018, 14, e1702600.	5.2	21
30	Unveil the Size-Dependent Mechanical Behaviors of Individual CNT/SiC Composite Nanofibers by In Situ Tensile Tests in SEM. <i>Small</i> , 2016, 12, 4486-4491.	5.2	20
31	Surface enhanced resonant Raman scattering in hybrid MoSe ₂ @Au nanostructures. <i>Optics Express</i> , 2018, 26, 29411.	1.7	20
32	Perovskite-Derivative Valleytronics. <i>Advanced Materials</i> , 2020, 32, e2004111.	11.1	19
33	Synergetic photoluminescence enhancement of monolayer MoS ₂ via surface plasmon resonance and defect repair. <i>RSC Advances</i> , 2018, 8, 23591-23598.	1.7	10
34	Ultrahighly Enhanced Performance of Single Cadmium Selenide Nanobelt by Plasmonic Gold Particles. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1900454.	0.8	5
35	Pathways of Exciton Triggered Hot-Carrier Injection at Plasmonic Metal-Transition Metal Dichalcogenide Interface. <i>Advanced Optical Materials</i> , 2022, 10, 2100070.	3.6	5