Hualing Zeng

List of Publications by Citations

47 papers	4,671 citations	18 h-index	50 g-index
50 ext. papers	5,485 ext. citations	11.5 avg, IF	5.61 L-index

#	Paper	IF	Citations
47	Valley polarization in MoS2 monolayers by optical pumping. *Nature Nanotechnology*, **2012**, 7, 490-3	28.7	2497
46	Optical signature of symmetry variations and spin-valley coupling in atomically thin tungsten dichalcogenides. *Scientific Reports*, **2013**, 3, 1608	4.9	659
45	Sequential establishment of stripe patterns in an expanding cell population. *Science*, **2011**, 334, 238-41	33.3	250
44	Anomalously robust valley polarization and valley coherence in bilayer WS2. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 11606-11	11.5	189
43	Low-Temperature In Situ Amino Functionalization of TiO Nanoparticles Sharpens Electron Management Achieving over 21% Efficient Planar Perovskite Solar Cells. *Advanced Materials*, **2019**, 31, e1806095	24	136
42	An optical spectroscopic study on two-dimensional group-VI transition metal dichalcogenides. *Chemical Society Reviews*, **2015**, 44, 2629-42	58.5	134
41	Low-frequency Raman modes and electronic excitations in atomically thin MoS2 films. *Physical Review B*, **2012**, 86,	3.3	123
40	Room-temperature ferroelectricity and a switchable diode effect in two-dimensional □nSe thin layers. *Nanoscale*, **2018**, 10, 14885-14892	7.7	98
39	Nonvolatile Ferroelectric Memory Effect in Ultrathin □n2Se3. *Advanced Functional Materials*, **2019**, 29, 1808606	15.6	76
38	Phase Engineering of Perovskite Materials for High-Efficiency Solar Cells: Rapid Conversion of CHNHPbI to Phase-Pure CHNHPbCl via Hydrochloric Acid Vapor Annealing Post-Treatment. *ACS Applied Materials & Interfaces*, **2018**, 10, 1897-1908	9.5	49
37	Anchoring Fullerene onto Perovskite Film via Grafting Pyridine toward Enhanced Electron Transport in High-Efficiency Solar Cells. *ACS Applied Materials & Interfaces*, **2018**, 10, 32471-32482	9.5	47
36	Single-Layered MoS Directly Grown on Rutile TiO(110) for Enhanced Interfacial Charge Transfer. *ACS Nano*, **2019**, 13, 6083-6089	16.7	39
35	9.7%-efficient Sb2(S,Se)3 solar cells with a dithieno[3,2-b: 2?,3?-d]pyrrole-cored hole transporting material. *Energy and Environmental Science*, **2021**, 14, 359-364	35.4	31
34	Magnetic Criticality Enhanced Hybrid Nanodiamond Thermometer under Ambient Conditions. *Physical Review X*, **2018**, 8,	9.1	28
33	Microconcave MAPbBr Single Crystal for High-Performance Photodetector. *Journal of Physical Chemistry Letters*, **2019**, 10, 786-792	6.4	26
32	The study of spin-valley coupling in atomically thin group VI transition metal dichalcogenides. *Advanced Materials*, **2014**, 26, 5504-7	24	22
31	Orthogonal Electric Control of the Out-Of-Plane Field-Effect in 2D Ferroelectric □n2Se3. *Advanced Electronic Materials*, **2020**, 6, 2000061	6.4	20

30	Hybridizing MoS2 and C60 via a van der Waals heterostructure toward synergistically enhanced visible light photocatalytic hydrogen production activity. *International Journal of Hydrogen Energy*, **2018**, 43, 8698-8706	6.7	20
29	Semitransparent CH3NH3PbI3 Films Achieved by Solvent Engineering for Annealing- and Electron Transport Layer-Free Planar Perovskite Solar Cells. *Solar Rrl*, **2018**, 2, 1700222	7.1	18
28	Perovskite Quantum Dots Exhibiting Strong Hole Extraction Capability for Efficient Inorganic Thin Film Solar Cells. *Cell Reports Physical Science*, **2020**, 1, 100001	6.1	18
27	Steering the electron transport properties of pyridine-functionalized fullerene derivatives in inverted perovskite solar cells: the nitrogen site matters. *Journal of Materials Chemistry A*, **2020**, 8, 3872-3881	13	17
26	Measurements on quantum capacitance of individual single walled carbon nanotubes. *Applied Physics Letters*, **2009**, 94, 093114	3.4	17
25	Atomically thin □n2Se3: an emergent two-dimensional room temperature ferroelectric semiconductor. *Journal of Semiconductors*, **2019**, 40, 061002	2.3	15
24	Exfoliated graphitic carbon nitride self-recognizing CH3NH3PbI3 grain boundaries by hydrogen bonding interaction for improved perovskite solar cells. *Solar Energy*, **2019**, 181, 161-168	6.8	15
23	Enhanced bulk photovoltaic effect in two-dimensional ferroelectric CuInPS. *Nature Communications* , **2021**, 12, 5896	17.4	15
22	Light-Induced Incandescence of Single-Walled Carbon Nanotubes. *Journal of Physical Chemistry C*, **2008**, 112, 4172-4175	3.8	13
21	Cu2□GeS3: a new hole transporting material for stable and efficient perovskite solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 19884-19891	13	12
20	Observation of exciton-phonon sideband in individual metallic single-walled carbon nanotubes. *Physical Review Letters*, **2009**, 102, 136406	7.4	12
19	Approaching three-dimensional quantum Hall effect in bulk HfTe5. *Physical Review B*, **2020**, 101,	3.3	12
18	Reflectance spectra of individual single-walled carbon nanotubes. *Nanotechnology*, **2008**, 19, 045708	3.4	8
17	Effect of layer and stacking sequence in simultaneously grown 2H and 3R WS atomic layers. *Nanotechnology*, **2019**, 30, 345203	3.4	7
16	Large-Scale Ligand-Free Synthesis of Homogeneous Core-Shell Quantum-Dot-Modified CsPbBr Microcrystals. *Inorganic Chemistry*, **2019**, 58, 10620-10624	5.1	7
15	Mo Doping Assisting the CVD Synthesis of Size-Controlled, Uniformly Distributed Single-Layer MoS on Rutile TiO(110). *ACS Applied Materials & Interfaces*, **2020**, 12, 34378-34387	9.5	6
14	Electronic transport and optoelectronic applications of a new layered semiconductor CuTaS3. *Applied Surface Science*, **2020**, 499, 143932	6.7	6
13	Room-Temperature Ferroelectricity in 1T^{□}-ReS_{2} Multilayers.. *Physical Review Letters*, **2022**, 128, 067601	7.4	5

12	Bright and Near-Unity Polarized Light Emission Enabled by Highly Luminescent CuI-Dimer Cluster-Based Hybrid Materials. *Nano Letters*, **2021**, 21, 4115-4121	11.5	4
11	Single-Layer MoS Grown on Atomically Flat SrTiO Single Crystal for Enhanced Trionic Luminescence. *ACS Nano*, **2021**, 15, 8610-8620	16.7	4
10	Possible Topological Hall Effect above Room Temperature in Layered CrTe Ferromagnet. *Nano Letters*, **2021**, 21, 4280-4286	11.5	3
9	Strain-Induced Bandgap Enhancement of InSe Ultrathin Films with Self-Formed Two-Dimensional Electron Gas. *ACS Nano*, **2021**, 15, 10700-10709	16.7	3
8	Nonvolatile Electric Control of Exciton Complexes in Monolayer MoSe with Two-Dimensional Ferroelectric CuInPS. *ACS Applied Materials & Interfaces*, **2021**, 13, 24250-24257	9.5	2
7	CdTe surface passivation by electric field induced at the metal-oxide/CdTe interface. *Solar Energy*, **2021**, 225, 83-90	6.8	2
6	Ferroelectrics: Nonvolatile Ferroelectric Memory Effect in Ultrathin □n2Se3 (Adv. Funct. Mater. 20/2019). *Advanced Functional Materials*, **2019**, 29, 1970136	15.6	1
5	Electronic Raman scattering on individual semiconducting single walled carbon nanotubes. *Scientific Reports*, **2014**, 4, 5969	4.9	1
4			
3	Planar-symmetry-breaking induced antisymmetric magnetoresistance in van der Waals ferromagnet Fe3GeTe2. *Nano Research*,1	10	1
2	Modulated Photoluminescence of Single-Layer MoS 2 via Nanostructured SrTiO 3 Surface. *Advanced Materials Interfaces*,2200383	4.6	0
1	Elimination of Grain Boundaries in Graphene Growth on a Cu□Ni Alloyed Substrate by Chemical Vapor Deposition. *Journal of Physical Chemistry C*, **2021**, 125, 18217-18224	3.8	