Xiaodong Cui

List of Publications by Year
in descending order

53 papers	9,253 citations	186265 28 h-index	189892 50 g-index
56 all docs	56 docs citations	56 times ranked	11902 citing authors

#	Article	IF	Citations
1	Valley polarization in MoS2 monolayers by optical pumping. Nature Nanotechnology, 2012, 7, 490-493.	31.5	3,036
2	Reproducible Measurement of Single-Molecule Conductivity. Science, 2001, 294, 571-574.	12.6	1,246
3	Optical signature of symmetry variations and spin-valley coupling in atomically thin tungsten dichalcogenides. Scientific Reports, 2013, 3, 1608.	3.3	836
4	Exciton Binding Energy of Monolayer WS2. Scientific Reports, 2015, 5, 9218.	3.3	596
5	Sequential Establishment of Stripe Patterns in an Expanding Cell Population. Science, 2011, 334, 238-241.	12.6	346
6	Magnetoelectric effects and valley-controlled spin quantum gates in transition metal dichalcogenide bilayers. Nature Communications, 2013, 4, 2053.	12.8	302
7	Making electrical contacts to molecular monolayers. Nanotechnology, 2002, 13, 5-14.	2.6	289
8	Valley excitons in two-dimensional semiconductors. National Science Review, 2015, 2, 57-70.	9.5	254
9	Anomalously robust valley polarization and valley coherence in bilayer WS ₂. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11606-11611.	7.1	245
10	Controlling Energy-Level Alignments at Carbon Nanotube/Au Contacts. Nano Letters, 2003, 3, 783-787.	9.1	233
11	Changes in the Electronic Properties of a Molecule When It Is Wired into a Circuit. Journal of Physical Chemistry B, 2002, 106, 8609-8614.	2.6	229
12	An optical spectroscopic study on two-dimensional group-VI transition metal dichalcogenides. Chemical Society Reviews, 2015, 44, 2629-2642.	38.1	159
13	Layerâ€Dependent Nonlinear Optical Properties and Stability of Nonâ€Centrosymmetric Modification in Fewâ€Layer GaSe Sheets. Angewandte Chemie - International Edition, 2015, 54, 1185-1189.	13.8	156
14	Long and Oriented Single-Walled Carbon Nanotubes Grown by Ethanol Chemical Vapor Deposition. Journal of Physical Chemistry B, 2004, 108, 16451-16456.	2.6	138
15	Low-frequency Raman modes and electronic excitations in atomically thin MoS<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>films. Physical Review B, 2012, 86, .	3.2	134
16	Molecular-beam epitaxy of monolayer and bilayer WSe ₂ : a scanning tunneling microscopy/spectroscopy study and deduction of exciton binding energy. 2D Materials, 2015, 2, 034004.	4.4	128
17	Resonance Raman scattering in bulk 2H-MX₂ (Mâ€‰=â€‰Mo, W; Xâ€‰=â€‰S, Se) and monolayer MoS₂. Journal of Applied Physics, 2014, 115, 053527.	2.5	92
18	Formation of 1D Infinite Chains Directed by Metalâ€“Metal and/or Ï€â€“Ï€ Stacking Interactions of Water-Soluble Platinum(II) 2,6-Bis(benzimidazol-2â€²-yl)pyridine Double Complex Salts. Journal of the American Chemical Society, 2018, 140, 657-666.	13.7	77

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19	Manipulating spin-polarized photocurrents in 2D transition metal dichalcogenides. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3746-3750.	7.1	63
20	Ferromagnetism in 2D Vanadium Diselenide. ACS Nano, 2021, 15, 16236-16241.	14.6	61
21	Anomalous Temperature-Dependent Excitonâ€“Phonon Coupling in Cesium Lead Bromide Perovskite Nanosheets. Journal of Physical Chemistry C, 2019, 123, 5128-5135.	3.1	50
22	Electrostatic Field and Partial Fermi Level Pinning at the Pentaceneâ^'SiO2Interface. Journal of Physical Chemistry B, 2005, 109, 1834-1838.	2.6	47
23	Structural Phase Transition of Multilayer VSe₂. ACS Applied Materials & Interfaces, 2020, 12, 25143-25149.	8.0	47
24	Self-organizing high-density single-walled carbon nanotube arrays from surfactant suspensions. Nanotechnology, 2004, 15, 1450-1454.	2.6	45
25	CdTe Nanorod Arrays on ITO: From Microstructure to Photoelectrical Property. Journal of Physical Chemistry C, 2009, 113, 16951-16953.	3.1	45
26	Observation of electric current induced by optically injected spin current. Applied Physics Letters, 2007, 90, 242115.	3.3	41
27	Long valley relaxation time of free carriers in monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WSe</mml:mi><mml:mn>2</mml:mn></mml:msub></ Physical Review B, 2017, 95, .	3.2	38
28	Optical Control of Spin Polarization in Monolayer Transition Metal Dichalcogenides. ACS Nano, 2017, 11, 1581-1587.	14.6	34
29	The Study of Spinâ€Valley Coupling in Atomically Thin Group VI Transition Metal Dichalcogenides. Advanced Materials, 2014, 26, 5504-5507.	21.0	26
30	Quantum transport through an array of quantum dots. Nanoscale, 2013, 5, 169-173.	5.6	22
31	Shape-control growth of 2D-In₂Se₃with out-of-plane ferroelectricity by chemical vapor deposition. Nanoscale, 2020, 12, 20189-20201.	5.6	21
32	Magnetic order in XY-type antiferromagnetic monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CoPS</mml:mi><mml:mn>3</mml:mn></mml:msub></ revealed by Raman spectroscopy. Physical Review B, 2021, 103, .	3.2	20
33	Measurements on quantum capacitance of individual single walled carbon nanotubes. Applied Physics Letters, 2009, 94, .	3.3	19
34	Many-Body Effect on Optical Properties of Monolayer Molybdenum Diselenide. Journal of Physical Chemistry Letters, 2021, 12, 2555-2561.	4.6	19
35	Light-Induced Incandescence of Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2008, 112, 4172-4175.	3.1	17
36	Observation of Exciton-Phonon Sideband in Individual Metallic Single-Walled Carbon Nanotubes. Physical Review Letters, 2009, 102, 136406.	7.8	15

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37	Magnetoelectric Photocurrent Generated by Direct Interband Transitions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>InGaAs</mml:mi><mml:mo>/</mml:mo><mml:mi>InAlAs</mml:mi></mml:math>Two-Dimensional Electron Gas. Physical Review Letters, 2010, 104, 246601.	7.8	14
38	Raman scattering investigations on Co-doped ZnO epitaxial films: Local vibration modes and defect associated ferromagnetism. Current Applied Physics, 2014, 14, 744-748.	2.4	14
39	Efficient Longâ€Range Triplet Exciton Transport by Metalâ€“Metal Interaction at Room Temperature. Angewandte Chemie - International Edition, 2022, 61, .	13.8	13
40	Bias-induced forces in conducting atomic force microscopy and contact charging of organic monolayers. Ultramicroscopy, 2002, 92, 67-76.	1.9	12
41	Determination of the sign of g factors for conduction electrons using time-resolved Kerr rotation. Applied Physics Letters, 2010, 96, 152109.	3.3	10
42	Reflectance spectra of individual single-walled carbon nanotubes. Nanotechnology, 2008, 19, 045708.	2.6	8
43	Dipole Orientation Shift of Ga₂Se₂ by Quantum Confinement. ACS Nano, 2020, 14, 1027-1032.	14.6	6
44	Spin relaxation in submonolayer and monolayer InAs structures grown in a GaAs matrix. Physical Review B, 2009, 80, .	3.2	5
45	High resolution autofocus for spatial temporal biomedical research. Review of Scientific Instruments, 2013, 84, 114302.	1.3	5
46	Probing the exciton k-space dynamics in monolayer tungsten diselenides. 2D Materials, 2019, 6, 025035.	4.4	4
47	Quadratic magnetic field dependence of magnetoelectric photocurrent. Physical Review B, 2011, 83, .	3.2	3
48	Electronic Raman Scattering On Individual Semiconducting Single Walled Carbon Nanotubes. Scientific Reports, 2014, 4, 5969.	3.3	2
49	An edge-on energy-resolved X-ray semiconductor detector. Solid State Communications, 2021, 332, 114339.	1.9	2
50	Efficient Longâ€Range Triplet Exciton Transport by Metalâ€“Metal Interaction at Room Temperature. Angewandte Chemie, 0, , .	2.0	2
51	Optical signature of symmetry variations and spin-valley coupling in atomically thin tungsten dichalcogenides. , 0, .		1
52	Spin-valley coupling in atomically thin dichalcogenides. , 2013, , .		0
53	Valley Polarization in Transition-Metal Dichalcogenides by Optical Pumping. Lecture Notes in Nanoscale Science and Technology, 2014, , 269-287.	0.8	0