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	Efficient Longâ€Range Triplet Exciton Transport by Metalâ€“Metal Interaction at Room Temperature. Angewandte Chemie - International Edition, 2022, 61, .	13.8	13
2	Many-Body Effect on Optical Properties of Monolayer Molybdenum Diselenide. Journal of Physical Chemistry Letters, 2021, 12, 2555-2561.	4.6	19
3	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></mml revealed by Raman spectroscopy. Physical Review B, 2021, 103, .	3.2	20
4	An edge-on energy-resolved X-ray semiconductor detector. Solid State Communications, 2021, 332, 114339.	1.9	2
5	Ferromagnetism in 2D Vanadium Diselenide. ACS Nano, 2021, 15, 16236-16241.	14.6	61
6	Dipole Orientation Shift of Ga₂Se₂ by Quantum Confinement. ACS Nano, 2020, 14, 1027-1032.	14.6	6
7	Shape-control growth of 2D-In₂Se₃with out-of-plane ferroelectricity by chemical vapor deposition. Nanoscale, 2020, 12, 20189-20201.	5.6	21
8	Structural Phase Transition of Multilayer VSe₂. ACS Applied Materials & Interfaces, 2020, 12, 25143-25149.	8.0	47
9	Anomalous Temperature-Dependent Excitonâ€“Phonon Coupling in Cesium Lead Bromide Perovskite Nanosheets. Journal of Physical Chemistry C, 2019, 123, 5128-5135.	3.1	50
10	Probing the exciton k-space dynamics in monolayer tungsten diselenides. 2D Materials, 2019, 6, 025035.	4.4	4
11	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
12	Optical Control of Spin Polarization in Monolayer Transition Metal Dichalcogenides. ACS Nano, 2017, 11, 1581-1587.	14.6	34
13	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
14	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
15	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
16	Valley excitons in two-dimensional semiconductors. National Science Review, 2015, 2, 57-70.	9.5	254
17	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
18	An optical spectroscopic study on two-dimensional group-VI transition metal dichalcogenides. Chemical Society Reviews, 2015, 44, 2629-2642.	38.1	159

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19	Exciton Binding Energy of Monolayer WS2. Scientific Reports, 2015, 5, 9218.	3.3	596
20	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
21	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
22	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
23	The Study of Spinâ€Valley Coupling in Atomically Thin Group VI Transition Metal Dichalcogenides. Advanced Materials, 2014, 26, 5504-5507.	21.0	26
24	Electronic Raman Scattering On Individual Semiconducting Single Walled Carbon Nanotubes. Scientific Reports, 2014, 4, 5969.	3.3	2
25	Valley Polarization in Transition-Metal Dichalcogenides by Optical Pumping. Lecture Notes in Nanoscale Science and Technology, 2014, , 269-287.	0.8	0
26	Quantum transport through an array of quantum dots. Nanoscale, 2013, 5, 169-173.	5.6	22
27	Optical signature of symmetry variations and spin-valley coupling in atomically thin tungsten dichalcogenides. Scientific Reports, 2013, 3, 1608.	3.3	836
28	Magnetoelectric effects and valley-controlled spin quantum gates in transition metal dichalcogenide bilayers. Nature Communications, 2013, 4, 2053.	12.8	302
29	High resolution autofocus for spatial temporal biomedical research. Review of Scientific Instruments, 2013, 84, 114302.	1.3	5
30	Spin-valley coupling in atomically thin dichalcogenides. , 2013, , .		0
31	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
32	Valley polarization in MoS2 monolayers by optical pumping. Nature Nanotechnology, 2012, 7, 490-493.	31.5	3,036
33	Quadratic magnetic field dependence of magnetoelectric photocurrent. Physical Review B, 2011, 83, .	3.2	3
34	Sequential Establishment of Stripe Patterns in an Expanding Cell Population. Science, 2011, 334, 238-241.	12.6	346
35	Determination of the sign of g factors for conduction electrons using time-resolved Kerr rotation. Applied Physics Letters, 2010, 96, 152109.	3.3	10
36	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

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37	Measurements on quantum capacitance of individual single walled carbon nanotubes. Applied Physics Letters, 2009, 94, .	3.3	19
38	Spin relaxation in submonolayer and monolayer InAs structures grown in a GaAs matrix. Physical Review B, 2009, 80, .	3.2	5
39	Observation of Exciton-Phonon Sideband in Individual Metallic Single-Walled Carbon Nanotubes. Physical Review Letters, 2009, 102, 136406.	7.8	15
40	CdTe Nanorod Arrays on ITO: From Microstructure to Photoelectrical Property. Journal of Physical Chemistry C, 2009, 113, 16951-16953.	3.1	45
41	Reflectance spectra of individual single-walled carbon nanotubes. Nanotechnology, 2008, 19, 045708.	2.6	8
42	Light-Induced Incandescence of Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2008, 112, 4172-4175.	3.1	17
43	Observation of electric current induced by optically injected spin current. Applied Physics Letters, 2007, 90, 242115.	3.3	41
44	Electrostatic Field and Partial Fermi Level Pinning at the Pentaceneâ^'SiO2Interface. Journal of Physical Chemistry B, 2005, 109, 1834-1838.	2.6	47
45	Self-organizing high-density single-walled carbon nanotube arrays from surfactant suspensions. Nanotechnology, 2004, 15, 1450-1454.	2.6	45
46	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
47	Controlling Energy-Level Alignments at Carbon Nanotube/Au Contacts. Nano Letters, 2003, 3, 783-787.	9.1	233
48	Making electrical contacts to molecular monolayers. Nanotechnology, 2002, 13, 5-14.	2.6	289
49	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
50	Bias-induced forces in conducting atomic force microscopy and contact charging of organic monolayers. Ultramicroscopy, 2002, 92, 67-76.	1.9	12
51	Reproducible Measurement of Single-Molecule Conductivity. Science, 2001, 294, 571-574.	12.6	1,246
52	Optical signature of symmetry variations and spin-valley coupling in atomically thin tungsten dichalcogenides. , 0, .		1
53	Efficient Longâ€Range Triplet Exciton Transport by Metalâ€"Metal Interaction at Room Temperature. Angewandte Chemie, 0, , .	2.0	2