

Chunxiao Cong

List of Publications by Year in descending order

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119
papers

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times ranked

13006
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of interlayer coupling on the excitons and electronic structures of WS ₂ /hBN/MoS ₂ van der Waals heterostructures. Nano Research, 2022, 15, 2674-2681.	10.4	20
2	Optical properties of Sub-30 nm-thick ZnS films studied by spectroscopic ellipsometry. Materials Science in Semiconductor Processing, 2022, 142, 106454.	4.0	8
3	Deterministic and Scalable Generation of Exciton Emitters in 2D Semiconductor Nanodisks. Advanced Optical Materials, 2022, 10, .	7.3	3
4	White-Light Driven Resonant Emission from a Monolayer Semiconductor. Advanced Materials, 2022, , 2103527.	21.0	2
5	Dewetting-Assisted Patterning of Organic Semiconductors for Micro-OLED Arrays with a Pixel Size of 1Åµm. Small Methods, 2022, 6, e2101509.	8.6	12
6	Single-Crystalline Thin-Film Memory Arrays of Molecular Ferroelectrics with Ultralow Operation Voltages. , 2022, 4, 758-763.		4
7	Versatile band structure and electron-phonon coupling in layered PtSe ₂ with strong interlayer interaction. Nano Research, 2022, 15, 6613-6619.	10.4	8
8	Molecular ferroelectric/semiconductor interfacial memristors for artificial synapses. Npj Flexible Electronics, 2022, 6, .	10.7	17
9	Stacking monolayers at will: A scalable device optimization strategy for two-dimensional semiconductors. Nano Research, 2022, 15, 6620-6627.	10.4	4
10	2H Tantalum Disulfide Nanosheets as Substrates for Ultrasensitive SERS-Based Sensing. ACS Applied Nano Materials, 2022, 5, 8913-8920.	5.0	10
11	Wafer-Scale Diisopropylammonium Bromide Films for Low-Power Lateral Organic Ferroelectric Capacitors. Advanced Electronic Materials, 2021, 7, 2000778.	5.1	4
12	Towards chirality control of graphene nanoribbons embedded in hexagonal boron nitride. Nature Materials, 2021, 20, 202-207.	27.5	80
13	Raman scattering investigation of twisted WS ₂ /MoS ₂ heterostructures: interlayer mechanical coupling versus charge transfer. Nano Research, 2021, 14, 2215-2223.	10.4	29
14	Observation of Strong Valley Magnetic Response in Monolayer Transition Metal Dichalcogenide Alloys of Mo _{0.5} W _{0.5} Se ₂ and Mo _{0.5} W _{0.5} Se ₂ /WS ₂ Heterostructures. ACS Nano, 2021, 15, 8397-8406.	14.6	8
15	Continuous-Wave Vertical Cavity Surface-Emitting Lasers based on Single Crystalline Lead Halide Perovskites. Advanced Optical Materials, 2021, 9, 2001982.	7.3	16
16	Unveiling the origin of anomalous low-frequency Raman mode in CVD-grown monolayer WS ₂ . Nano Research, 2021, 14, 4314-4320.	10.4	9
17	Atomic-Layer-Ti-Doped Ga ₂ O ₃ Thin Films with Tunable Optical Properties and Wide Ultraviolet Optoelectronic Responses. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100411.	2.4	10
18	Controlled Synthesis of Pure-Phase GaAs Nanowires through Shear Tension. ACS Photonics, 2021, 8, 2889-2897.	6.6	4

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19	Large-Area Monolayer MoS ₂ Nanosheets on GaN Substrates for Light-Emitting Diodes and Valley-Spin Electronic Devices. ACS Applied Nano Materials, 2021, 4, 12127-12136.	5.0	17
20	Remarkable quality improvement of as-grown monolayer MoS ₂ by sulfur vapor pretreatment of SiO ₂ /Si substrates. Nanoscale, 2020, 12, 1958-1966.	5.6	9
21	Spatial variations of valley splitting in monolayer transition metal dichalcogenide. Information Materials, 2020, 2, 585-592.	17.3	5
22	Optical characterization of two-dimensional semiconductors. , 2020, , 135-166.		1
23	From Anomalous to Normal: Temperature Dependence of the Band Gap in Two-Dimensional Black Phosphorus. Physical Review Letters, 2020, 125, 156802.	7.8	23
24	Visualizing the Anomalous Charge Density Wave States in Graphene/NbSe ₂ Heterostructures. Advanced Materials, 2020, 32, e2003746.	21.0	23
25	Effects of dielectric screening on the excitonic and critical points properties of WS ₂ /MoS ₂ heterostructures. Nanoscale, 2020, 12, 23732-23739.	5.6	19
26	Optical properties of thickness-controlled PtSe ₂ thin films studied via spectroscopic ellipsometry. Physical Chemistry Chemical Physics, 2020, 22, 26383-26389.	2.8	19
27	Self-assembled non-volatile micro memory arrays of molecular ferroelectrics. Journal of Materials Chemistry C, 2020, 8, 16742-16748.	5.5	6
28	Observation of split defect-bound excitons in twisted WSe ₂ /WSe ₂ homostructure. Applied Physics Letters, 2020, 117, .	3.3	18
29	The photoresponsivity of monolayer molybdenum disulfide grown by chemical vapor deposition with different seeding promoters. Applied Physics Express, 2020, 13, 071006.	2.4	1
30	Liquid-Metal-Induced Memristor Behavior in Polymer Insulators. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000050.	2.4	9
31	Direct Observation of the Linear Dichroism Transition in Two-Dimensional Palladium Diselenide. Nano Letters, 2020, 20, 1172-1182.	9.1	61
32	Multicolor Broadband and Fast Photodetector Based on InGaAs/Insulator/Graphene Hybrid Heterostructure. Advanced Electronic Materials, 2020, 6, 1901007.	5.1	44
33	Synthesis of Co-Doped MoS ₂ Monolayers with Enhanced Valley Splitting. Advanced Materials, 2020, 32, e1906536.	21.0	84
34	High-performance polarization-sensitive photodetector based on a few-layered PdSe ₂ nanosheet. Nano Research, 2020, 13, 1780-1786.	10.4	60
35	Probing quantum confinement effects on the excitonic property and electronic band structures of MoS ₂ . Applied Surface Science, 2020, 519, 146262.	6.1	14
36	Vapor-liquid-solid growth of large-area multilayer hexagonal boron nitride on dielectric substrates. Nature Communications, 2020, 11, 849.	12.8	75

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37	Observation of double indirect interlayer exciton in WSe ₂ /WS ₂ heterostructure. Optics Express, 2020, 28, 13260.	3.4	32
38	Valley-polarized local excitons in WSe ₂ /WS ₂ vertical heterostructures. Optics Express, 2020, 28, 22135.	3.4	18
39	Passively Q-switched Nd:GdYTaO ₄ laser based on two-dimensional MoS ₂ saturable absorber. Infrared Physics and Technology, 2019, 102, 102985.	2.9	1
40	High-Performance WSe ₂ Photodetector Based on a Laser-Induced p-n Junction. ACS Applied Materials & Interfaces, 2019, 11, 43330-43336.	8.0	61
41	Unveiling exceptionally robust valley contrast in AA- and AB-stacked bilayer WS ₂ . Nanoscale Horizons, 2019, 4, 396-403.	8.0	28
42	Precise Layer Control of MoTe ₂ by Ozone Treatment. Nanomaterials, 2019, 9, 756.	4.1	15
43	Influence of seeding promoters on the properties of CVD grown monolayer molybdenum disulfide. Nano Research, 2019, 12, 823-827.	10.4	39
44	Engineering Valley Polarization of Monolayer WS ₂ : A Physical Doping Approach. Small, 2019, 15, e1805503.	10.0	62
45	In-Plane Anisotropic Thermal Conductivity of Few-Layered Transition Metal Dichalcogenide Td-WTe ₂ . Advanced Materials, 2019, 31, e1804979.	21.0	45
46	Raman Spectroscopy Study of Two-Dimensional Materials Under Strain. Springer Series in Materials Science, 2019, , 111-129.	0.6	1
47	Fabrication of Uniform Gold Nanopatterns on Graphene by Using Nanosphere Lithography. Journal of Nanoscience and Nanotechnology, 2019, 19, 2851-2855.	0.9	0
48	Laser-scribed highly responsive infrared detectors with semi-reduced graphene oxide. Applied Physics Express, 2018, 11, 015101.	2.4	6
49	Space-Charge-Stabilized Ferroelectric Polarization in Self-Oriented Croconic Acid Films. Advanced Functional Materials, 2018, 28, 1705463.	14.9	15
50	Light Sources and Photodetectors Enabled by 2D Semiconductors. Small Methods, 2018, 2, 1800019.	8.6	35
51	Large-signal modulation characteristics of a GaN-based micro-LED for Gbps visible-light communication. Applied Physics Express, 2018, 11, 044101.	2.4	14
52	Tunable excitonic emission of monolayer WS ₂ for the optical detection of DNA nucleobases. Nano Research, 2018, 11, 1744-1754.	10.4	20
53	Optical Properties of 2D Semiconductor WS ₂ . Advanced Optical Materials, 2018, 6, 1700767.	7.3	265
54	1T [±] 2 Transition Metal Telluride Atomic Layers for Plasmon-Free SERS at Femtomolar Levels. Journal of the American Chemical Society, 2018, 140, 8696-8704.	13.7	192

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55	Organic semiconductor/water interfaces for photoelectrical viscosity sensing. <i>Electrochemistry Communications</i> , 2018, 95, 18-22.	4.7	0
56	Laser-based white-light source for high-speed underwater wireless optical communication and high-efficiency underwater solid-state lighting. <i>Optics Express</i> , 2018, 26, 19259.	3.4	50
57	Photovoltage Reversal in Organic Optoelectronic Devices with Insulator-Semiconductor Interfaces. <i>Materials</i> , 2018, 11, 1530.	2.9	3
58	Mass Production of Large-Sized, Nonlayered 2D Nanosheets: Their Directed Synthesis by a Rapid Gel-Blowing Strategy, and Applications in Li/Na Storage and Catalysis. <i>Advanced Materials</i> , 2018, 30, e1803569.	21.0	74
59	Competing Mechanisms for Photocurrent Induced at the Monolayer/Multilayer Graphene Junction. <i>Small</i> , 2018, 14, e1800691.	10.0	13
60	Intrinsic excitonic emission and valley Zeeman splitting in epitaxial MS ₂ (M = Mo and W) monolayers on hexagonal boron nitride. <i>Nano Research</i> , 2018, 11, 6227-6236.	10.4	8
61	Probing magnetic-proximity-effect enlarged valley splitting in monolayer WSe ₂ by photoluminescence. <i>Nano Research</i> , 2018, 11, 6252-6259.	10.4	20
62	Direct laser writing of vertical junctions in graphene oxide films for broad spectral position-sensitive detectors. <i>Nanophotonics</i> , 2018, 7, 1563-1570.	6.0	9
63	Extending the Spectral Responsivity of MoS ₂ Phototransistors by Incorporating Up-Conversion Microcrystals. <i>Advanced Optical Materials</i> , 2018, 6, 1800660.	7.3	25
64	Oriented graphene nanoribbons embedded in hexagonal boron nitride trenches. <i>Nature Communications</i> , 2017, 8, 14703.	12.8	119
65	Anti-Stokes Photoluminescence of van der Waals Layered Semiconductor PbI ₂ . <i>Advanced Optical Materials</i> , 2017, 5, 1700609.	7.3	20
66	Room-temperature 2D semiconductor activated vertical-cavity surface-emitting lasers. <i>Nature Communications</i> , 2017, 8, 543.	12.8	102
67	A real-time Raman spectroscopy study of the dynamics of laser-thinning of MoS ₂ flakes to monolayers. <i>AIP Advances</i> , 2017, 7, .	1.3	16
68	Gbps Long-Distance Real-Time Visible Light Communications Using a High-Bandwidth GaN-Based Micro-LED. <i>IEEE Photonics Journal</i> , 2017, 9, 1-9.	2.0	37
69	345 m underwater optical wireless communication with 270 Gbps data rate based on a green laser diode with NRZ-OOK modulation. <i>Optics Express</i> , 2017, 25, 27937.	3.4	162
70	Revealing electronic nature of broad bound exciton bands in two-dimensional semiconducting W and S and	2.4	19
71	Controlled Growth and Reliable Thickness-Dependent Properties of Organic-Inorganic Perovskite Platelet Crystal. <i>Advanced Functional Materials</i> , 2016, 26, 5263-5270.	14.9	64
72	Origin and Quenching of Novel ultraviolet and blue emission in NdGaO ₃ : Concept of Super-Hydrogenic Dopants. <i>Scientific Reports</i> , 2016, 6, 36352.	3.3	2

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73	Periodic Organic-Inorganic Halide Perovskite Microplatelet Arrays on Silicon Substrates for Room-Temperature Lasing. <i>Advanced Science</i> , 2016, 3, 1600137.	11.2	121
74	Magneto-Optical Study of Defect Induced Sharp Photoluminescence in LaAlO ₃ and SrTiO ₃ . <i>Scientific Reports</i> , 2016, 6, 33145.	3.3	3
75	Electrically Tunable Valley-Light Emitting Diode (vLED) Based on CVD-Grown Monolayer WS ₂ . <i>Nano Letters</i> , 2016, 16, 1560-1567.	9.1	175
76	Magnetic oscillation of optical phonon in ABA- and ABC-stacked trilayer graphene. <i>Physical Review B</i> , 2015, 91, .	3.2	8
77	Stacking sequence determines Raman intensities of observed interlayer shear modes in 2D layered materials - A general bond polarizability model. <i>Scientific Reports</i> , 2015, 5, 14565.	3.3	51
78	Controlled Synthesis of Organic/Inorganic van der Waals Solid for Tunable Light-Matter Interactions. <i>Advanced Materials</i> , 2015, 27, 7800-7808.	21.0	109
79	Remarkable anisotropic phonon response in uniaxially strained few-layer black phosphorus. <i>Nano Research</i> , 2015, 8, 3944-3953.	10.4	68
80	Observation of Excitonic Fine Structure in a 2D Transition-Metal Dichalcogenide Semiconductor. <i>ACS Nano</i> , 2015, 9, 647-655.	14.6	288
81	Silane-catalysed fast growth of large single-crystalline graphene on hexagonal boron nitride. <i>Nature Communications</i> , 2015, 6, 6499.	12.8	173
82	Dichroic spin-valley photocurrent in monolayer molybdenum disulphide. <i>Nature Communications</i> , 2015, 6, 7636.	12.8	128
83	Strain-induced direct-indirect bandgap transition and phonon modulation in monolayer WS ₂ . <i>Nano Research</i> , 2015, 8, 2562-2572.	10.4	323
84	Thermal conductivity determination of suspended mono- and bilayer WS ₂ by Raman spectroscopy. <i>Nano Research</i> , 2015, 8, 1210-1221.	10.4	280
85	Electrical field tuning of magneto-Raman scattering in monolayer graphene. <i>Nano Research</i> , 2015, 8, 1139-1147.	10.4	8
86	Evolution of Raman G and G ² bands in monolayer and bilayer graphene. <i>Physical Review B</i> , 2014, 89, .	3.2	25
87	Synthesis and Optical Properties of Large-Area Single-Crystalline 2D Semiconductor WS ₂ Monolayer from Chemical Vapor Deposition. <i>Advanced Optical Materials</i> , 2014, 2, 131-136.	7.3	513
88	Low temperature photoresponse of monolayer tungsten disulphide. <i>APL Materials</i> , 2014, 2, .	5.1	10
89	Enhanced ultra-low-frequency interlayer shear modes in folded graphene layers. <i>Nature Communications</i> , 2014, 5, 4709.	12.8	77
90	Observation of low-wavenumber out-of-plane optical phonon in few-layer graphene. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 70-74.	2.5	9

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91	Thickness-dependent patterning of MoS ₂ sheets with well-oriented triangular pits by heating in air. Nano Research, 2013, 6, 703-711.	10.4	118
92	Strong magnetophonon resonance induced triple G-mode splitting in graphene on graphite probed by micromagneto Raman spectroscopy. Physical Review B, 2013, 88, .	3.2	17
93	Nonblinking, Intense Two-Dimensional Light Emitter: Monolayer WS ₂ Triangles. ACS Nano, 2013, 7, 10985-10994.	14.6	281
94	Mechanical Exfoliation and Characterization of Single- and Few-Layer Nanosheets of WSe ₂ , TaS ₂ , and TaSe ₂ . Small, 2013, 9, 1974-1981.	10.0	544
95	Visualization of arrangements of carbon atoms in graphene layers by Raman mapping and atomic-resolution TEM. Scientific Reports, 2013, 3, 1195.	3.3	43
96	Raman Spectroscopy Study of Lattice Vibration and Crystallographic Orientation of Monolayer MoS ₂ under Uniaxial Strain. Small, 2013, 9, 2857-2861.	10.0	363
97	Comparison of surface-enhanced Raman scattering on graphene oxide, reduced graphene oxide and graphene surfaces. Carbon, 2013, 62, 422-429.	10.3	107
98	Contrast and Raman spectroscopy study of single- and few-layered charge density wave material: 2H-TaSe ₂ . Scientific Reports, 2013, 3, 2593.	3.3	120
99	Probing near Dirac point electron-phonon interaction in graphene. Optical Materials Express, 2012, 2, 1713.	3.0	10
100	Thickness identification of two-dimensional materials by optical imaging. Nanotechnology, 2012, 23, 495713.	2.6	101
101	Zone folding effect in Raman G -band intensity of twisted bilayer graphene. Physical Review B, 2012, 86, .	3.2	79
102	Uniform Decoration of Reduced Graphene Oxide Sheets with Gold Nanoparticles. Journal of Nanotechnology, 2012, 2012, 1-8.	3.4	34
103	Direct observation of inner and outer G^2 band double-resonance Raman scattering in free standing graphene. Applied Physics Letters, 2012, 100, .	3.3	17
104	Thickness-dependent azobenzene doping in mono- and few-layer graphene. Carbon, 2012, 50, 201-208.	10.3	44
105	The origin of sub-bands in the Raman D-band of graphene. Carbon, 2012, 50, 4252-4258.	10.3	54
106	Raman Characterization of ABA- and ABC-Stacked Trilayer Graphene. ACS Nano, 2011, 5, 8760-8768.	14.6	184
107	A general strategy toward graphene@metal oxide core-shell nanostructures for high-performance lithium storage. Energy and Environmental Science, 2011, 4, 4954.	30.8	255
108	Fabrication of Co ₃ O ₄ -reduced graphene oxide scrolls for high-performance supercapacitor electrodes. Physical Chemistry Chemical Physics, 2011, 13, 14462.	2.8	215

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109	Raman spectra of out-of-plane phonons in bilayer graphene. <i>Physical Review B</i> , 2011, 84, .	3.2	55
110	Second-Order Overtone and Combination Raman Modes of Graphene Layers in the Range of 1690 $\hat{\sim}$ 2150 cm ^{<sup>1</sup>. <i>ACS Nano</i>, 2011, 5, 1600-1605.}	14.6	140
111	Hysteresis of Electronic Transport in Graphene Transistors. <i>ACS Nano</i> , 2010, 4, 7221-7228.	14.6	526
112	Self-Limited Oxidation: A Route to Form Graphene Layers from Graphite by One-Step Heating. <i>Small</i> , 2010, 6, 2837-2841.	10.0	13
113	Femtosecond UV-pump/visible-probe measurements of carrier dynamics in stacked graphene films. <i>Applied Physics Letters</i> , 2010, 97, 163103.	3.3	56
114	Raman Study on the G Mode of Graphene for Determination of Edge Orientation. <i>ACS Nano</i> , 2010, 4, 3175-3180.	14.6	90
115	Stacking-Dependent Optical Conductivity of Bilayer Graphene. <i>ACS Nano</i> , 2010, 4, 4074-4080.	14.6	145
116	New Colloidal Lithographic Nanopatterns Fabricated by Combining Pre-Heating and Reactive Ion Etching. <i>Nanoscale Research Letters</i> , 2009, 4, 1324-1328.	5.7	30
117	Inverse design for directional emitter and power splitter based on photonic crystal waveguide with surface corrugations. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, 2157.	2.1	12
118	Fabrication of Graphene Nanodisk Arrays Using Nanosphere Lithography. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6529-6532.	3.1	98
119	Facile synthesis and shape evolution of highly symmetric 26-facet polyhedral microcrystals of Cu ₂ O. <i>CrystEngComm</i> , 2009, 11, 2291.	2.6	50