

Xiao Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86

papers

2,838

citations

30

h-index

51

g-index

92

ext. papers

3,541

ext. citations

11.5

avg, IF

5.17

L-index

#	Paper	IF	Citations
86	Efficient modulation of MoS ₂ /WSe ₂ interlayer excitons via uniaxial strain. <i>Applied Physics Letters</i> , 2022 , 120, 053107	3.4	4
85	Solution-Processed CsPbBr Quantum Dots/Organic Semiconductor Planar Heterojunctions for High-Performance Photodetectors.. <i>Advanced Science</i> , 2022 , e2105856	13.6	4
84	Erbium chloride silicate-based vertical cavity surface-emitting laser at the near-infrared communication band.. <i>Optics Letters</i> , 2022 , 47, 1610-1613	3	2
83	Doping of Sn-based two-dimensional perovskite semiconductor for high-performance field-effect transistors and thermoelectric devices.. <i>IScience</i> , 2022 , 25, 104109	6.1	2
82	Enhancing circular polarization of photoluminescence of two-dimensional RuddlesdenPopper perovskites by constructing van der Waals heterostructures. <i>Applied Physics Letters</i> , 2021 , 119, 151101	3.4	1
81	Plasmonic Modulation of Valleytronic Emission in Two-Dimensional Transition Metal Dichalcogenides. <i>Advanced Functional Materials</i> , 2021 , 31, 2010234	15.6	10
80	An Efficient Deep-Subwavelength Second Harmonic Nanoantenna Based on Surface Plasmon-Coupled Dilute Nitride GaNP Nanowires. <i>Nano Letters</i> , 2021 , 21, 3426-3434	11.5	2
79	Atom-by-atom chemical identification from scanning transmission electron microscopy images in presence of noise and residual aberrations. <i>Ultramicroscopy</i> , 2021 , 227, 113292	3.1	0
78	Probing Bias-Induced Electron Density Shifts in Metal-Molecule Interfaces via Tip-Enhanced Raman Scattering. <i>Journal of the American Chemical Society</i> , 2021 , 143, 1816-1821	16.4	2
77	Polarized photoluminescence spectroscopy in WS ₂ , WSe ₂ atomic layers and heterostructures by cylindrical vector beams*. <i>Chinese Physics B</i> , 2021 , 30, 087802	1.2	0
76	Strong Second- and Third-Harmonic Generation in 1D Chiral Hybrid Bismuth Halides. <i>Journal of the American Chemical Society</i> , 2021 , 143, 16095-16104	16.4	15
75	Controlled vapor growth of 2D magnetic Cr ₂ Se ₃ and its magnetic proximity effect in heterostructures*. <i>Chinese Physics B</i> , 2021 , 30, 097601	1.2	1
74	Near-Unity Polarization of Valley-Dependent Second-Harmonic Generation in Stacked TMDC Layers and Heterostructures at Room Temperature. <i>Advanced Materials</i> , 2020 , 32, e1908061	24	17
73	Wavelength-Tunable Mid-Infrared Lasing from Black Phosphorus Nanosheets. <i>Advanced Materials</i> , 2020 , 32, e1808319	24	34
72	Contact and injection engineering for low SS reconfigurable FETs and high gain complementary inverters. <i>Science Bulletin</i> , 2020 , 65, 2007-2013	10.6	6
71	Epitaxial synthesis of ultrathin InSe/MoS heterostructures with high visible/near-infrared photoresponse. <i>Nanoscale</i> , 2020 , 12, 6480-6488	7.7	21
70	An Electrically Controlled Wavelength-Tunable Nanoribbon Laser. <i>ACS Nano</i> , 2020 , 14, 3397-3404	16.7	17

69	Revealing Excitonic and Electron-Hole Plasma States in Stimulated Emission of Single CsPbBr ₃ Nanowires at Room Temperature. <i>Physical Review Applied</i> , 2020 , 13,	4.3	13
68	Room temperature exciton-polaritons in high-quality 2D Ruddlesden-Popper perovskites (BA) ₂ (MA) _{n-1} Pb(n ₃ n+1) (n = 3, 4). <i>Applied Physics Letters</i> , 2020 , 117, 221107	3.4	2
67	Second harmonic generation of two-dimensional layered materials: characterization, signal modulation and enhancement. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020 , 69, 184210	0.6	4
66	Large-Scale Growth of Ultrathin Low-Dimensional Perovskite Nanosheets for High-Detectivity Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 2884-2891	9.5	16
65	Dual-channel type tunable field-effect transistors based on vertical bilayer WS ₂ (1-x)Se _{2x} /SnS ₂ heterostructures. <i>Information Materials</i> , 2020 , 2, 752-760	23.1	17
64	Twist Angle-Dependent Optical Responses in Controllably Grown WS ₂ Vertical Homojunctions. <i>Chemistry of Materials</i> , 2020 , 32, 9721-9729	9.6	8
63	Triphenylamine Polystyrene Blends for Perovskite Solar Cells with Simultaneous Energy Loss Suppression and Stability Improvement. <i>Solar Rrl</i> , 2020 , 4, 2000490	7.1	1
62	Light-Controlled Near-Field Energy Transfer in Plasmonic Metasurface Coupled MoS Monolayer. <i>Small</i> , 2020 , 16, e2003539	11	6
61	Room temperature near unity spin polarization in 2D Van der Waals heterostructures. <i>Nature Communications</i> , 2020 , 11, 4442	17.4	20
60	Probing and Manipulating Carrier Interlayer Diffusion in van der Waals Multilayer by Constructing Type-I Heterostructure. <i>Nano Letters</i> , 2019 , 19, 7217-7225	11.5	23
59	Room-temperature high-performance CsPbBr perovskite tetrahedral microlasers. <i>Nanoscale</i> , 2019 , 11, 2393-2400	7.7	29
58	Controlled Vapor Growth and Nonlinear Optical Applications of Large-Area 3R Phase WS ₂ and WSe ₂ Atomic Layers. <i>Advanced Functional Materials</i> , 2019 , 29, 1806874	15.6	59
57	Trion-Induced Distinct Transient Behavior and Stokes Shift in WS Monolayers. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3763-3772	6.4	11
56	Ultrahigh-Performance Optoelectronics Demonstrated in Ultrathin Perovskite-Based Vertical Semiconductor Heterostructures. <i>ACS Nano</i> , 2019 , 13, 7996-8003	16.7	45
55	Phonon-Assisted Electro-Optical Switches and Logic Gates Based on Semiconductor Nanostructures. <i>Advanced Materials</i> , 2019 , 31, e1901263	24	13
54	Nonvolatile MoTe p-n Diodes for Optoelectronic Logics. <i>ACS Nano</i> , 2019 , 13, 7216-7222	16.7	29
53	Properties of Excitons and Photogenerated Charge Carriers in Metal Halide Perovskites. <i>Advanced Materials</i> , 2019 , 31, e1806671	24	85
52	Rational Kinetics Control toward Universal Growth of 2D Vertically Stacked Heterostructures. <i>Advanced Materials</i> , 2019 , 31, e1901351	24	53

51	Double-Spiral Hexagonal Boron Nitride and Shear Strained Coalescence Boundary. <i>Nano Letters</i> , 2019 , 19, 4229-4236	11.5	9
50	Polar-Induced Selective Epitaxial Growth of Multijunction Nanoribbons for High-Performance Optoelectronics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15813-15820	9.5	5
49	High-responsivity two-dimensional p-PbI ₂ /n-WS ₂ vertical heterostructure photodetectors enhanced by photogating effect. <i>Materials Horizons</i> , 2019 , 6, 1474-1480	14.4	30
48	WO-WS Vertical Bilayer Heterostructures with High Photoluminescence Quantum Yield. <i>Journal of the American Chemical Society</i> , 2019 , 141, 11754-11758	16.4	29
47	Self-Powered Broad-band Photodetectors Based on Vertically Stacked WSe ₂ /BiTe Heterojunctions. <i>ACS Nano</i> , 2019 , 13, 13573-13580	16.7	89
46	Vapor growth of WSe ₂ /WS ₂ heterostructures with stacking dependent optical properties. <i>Nano Research</i> , 2019 , 12, 3123-3128	10	19
45	Van der Waals epitaxial growth of vertically stacked Sb ₂ Te ₃ /MoS ₂ p-n heterojunctions for high performance optoelectronics. <i>Nano Energy</i> , 2019 , 59, 66-74	17.1	75
44	Direct Vapor Growth of 2D Vertical Heterostructures with Tunable Band Alignments and Interfacial Charge Transfer Behaviors. <i>Advanced Science</i> , 2019 , 6, 1802204	13.6	57
43	Controlled Synthesis and Photonics Applications of Metal Halide Perovskite Nanowires. <i>Small Methods</i> , 2019 , 3, 1800294	12.8	30
42	Strain-Tuning Atomic Substitution in Two-Dimensional Atomic Crystals. <i>ACS Nano</i> , 2018 , 12, 4853-4860	16.7	64
41	Wavelength Selective Photodetectors Integrated on a Single Composition-Graded Semiconductor Nanowire. <i>Advanced Optical Materials</i> , 2018 , 6, 1800293	8.1	15
40	Visualizing Carrier Transport in Metal Halide Perovskite Nanoplates via Electric Field Modulated Photoluminescence Imaging. <i>Nano Letters</i> , 2018 , 18, 3024-3031	11.5	29
39	Organozinc Precursor-Derived Crystalline ZnO Nanoparticles: Synthesis, Characterization and Their Spectroscopic Properties. <i>Nanomaterials</i> , 2018 , 8,	5.4	14
38	Continuous-wave lasing in halide perovskites. <i>Science China Materials</i> , 2018 , 61, 1243-1244	7.1	4
37	Light Emission Properties of 2D Transition Metal Dichalcogenides: Fundamentals and Applications. <i>Advanced Optical Materials</i> , 2018 , 6, 1800420	8.1	53
36	Band Alignment Engineering in Two-Dimensional Lateral Heterostructures. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11193-11197	16.4	85
35	High-Quality In-Plane Aligned CsPbX Perovskite Nanowire Lasers with Composition-Dependent Strong Exciton-Photon Coupling. <i>ACS Nano</i> , 2018 , 12, 6170-6178	16.7	147
34	Diverse Atomically Sharp Interfaces and Linear Dichroism of 1TReS ₂ -ReSe ₂ Lateral p-n Heterojunctions. <i>Advanced Functional Materials</i> , 2018 , 28, 1804696	15.6	35

33	Composition modulation in one-dimensional and two-dimensional chalcogenide semiconductor nanostructures. <i>Chemical Society Reviews</i> , 2018 , 47, 7504-7521	58.5	72
32	Active optical antennas driven by inelastic electron tunneling. <i>Nanophotonics</i> , 2018 , 7, 1503-1516	6.3	8
31	Controllable Growth and Formation Mechanisms of Dislocated WS Spirals. <i>Nano Letters</i> , 2018 , 18, 3885-3892	18.9	62
30	Tin Nanoparticles Enhanced Optical Transportation in Branched CdS Nanowire Waveguides. <i>Advanced Optical Materials</i> , 2018 , 6, 1800305	8.1	12
29	Spatially composition-modulated two-dimensional WSSe nanosheets. <i>Nanoscale</i> , 2017 , 9, 4707-4712	7.7	32
28	Broken Symmetry Induced Strong Nonlinear Optical Effects in Spiral WS Nanosheets. <i>ACS Nano</i> , 2017 , 11, 4892-4898	16.7	79
27	Nonlinear photoluminescence in monolayer WS: parabolic emission and excitation fluence-dependent recombination dynamics. <i>Nanoscale</i> , 2017 , 9, 7235-7241	7.7	30
26	Cesium lead halide perovskite triangular nanorods as high-gain medium and effective cavities for multiphoton-pumped lasing. <i>Nano Research</i> , 2017 , 10, 3385-3395	10	89
25	Perovskite-Erbium Silicate Nanosheet Hybrid Waveguide Photodetectors at the Near-Infrared Telecommunication Band. <i>Advanced Materials</i> , 2017 , 29, 1604431	24	99
24	Vapor Growth and Tunable Lasing of Band Gap Engineered Cesium Lead Halide Perovskite Micro/Nanorods with Triangular Cross Section. <i>ACS Nano</i> , 2017 , 11, 1189-1195	16.7	199
23	High-Performance Flexible Photodetectors based on High-Quality Perovskite Thin Films by a Vapor-Solution Method. <i>Advanced Materials</i> , 2017 , 29, 1703256	24	96
22	Directional Growth of Ultralong CsPbBr Perovskite Nanowires for High-Performance Photodetectors. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15592-15595	16.4	195
21	Second-harmonic generation in single CdSe nanowires by focused cylindrical vector beams. <i>Optics Letters</i> , 2017 , 42, 2623-2626	3	8
20	Direct Vapor Growth of Perovskite CsPbBr Nanoplate Electroluminescence Devices. <i>ACS Nano</i> , 2017 , 11, 9869-9876	16.7	96
19	Two-photon luminescence contrast by tip-sample coupling in femtosecond near-field optical microscopy. <i>Applied Physics B: Lasers and Optics</i> , 2017 , 123, 1	1.9	2
18	Hot-electron-induced light amplification. <i>Journal of Photonics for Energy</i> , 2016 , 6, 042506	1.2	
17	Revealing nanoscale optical properties and morphology in perfluoropentacene films by confocal and tip-enhanced near-field optical microscopy and spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 15919-26	3.6	8
16	Power- and polarization dependence of two photon luminescence of single CdSe nanowires with tightly focused cylindrical vector beams of ultrashort laser pulses. <i>Laser and Photonics Reviews</i> , 2016 , 10, 835-842	8.3	14

15	Enhancement of Radiative Plasmon Decay by Hot Electron Tunneling. <i>ACS Nano</i> , 2015 , 9, 8176-83	16.7	29
14	Superluminescence from an optically pumped molecular tunneling junction by injection of plasmon induced hot electrons. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 1100-6	3	12
13	Morphology Related Photodegradation of Low-Band-Gap Polymer Blends. <i>Advanced Energy Materials</i> , 2014 , 4, 1400497	21.8	24
12	Topography-Correlated Confocal Raman Microscopy with Cylindrical Vector Beams for Probing Nanoscale Structural Order. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 1048-54	6.4	18
11	Polarization-dependent SERS at differently oriented single gold nanorods. <i>ChemPhysChem</i> , 2012 , 13, 952-8	3.2	19
10	Probing the nanoscale phase separation and photophysics properties of low-bandgap polymer:fullerene blend film by near-field spectroscopic mapping. <i>Small</i> , 2011 , 7, 2793-800	11	12
9	Simultaneous spectroscopic and topographic near-field imaging of TiO ₂ single surface states and interfacial electronic coupling. <i>Nano Letters</i> , 2011 , 11, 1490-4	11.5	31
8	High-Resolution Spectroscopic Mapping of the Chemical Contrast from Nanometer Domains in P3HT:PCBM Organic Blend Films for Solar-Cell Applications. <i>Advanced Functional Materials</i> , 2010 , 20, 492-499	15.6	89
7	Parabolic mirror-assisted tip-enhanced spectroscopic imaging for non-transparent materials. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 1371-1376	2.3	70
6	Optical waveguide behavior of Se-doped and undoped CdS one-dimensional nanostructures using near-field optical microscopy 2009 , 52, 26-30		
5	Comparison of the optical waveguide behaviors of Se-doped and undoped CdS nanoribbons by using near-field optical microscopy. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 978-81	1.3	2
4	Color-changeable optical transport through Se-doped CdS 1D nanostructures. <i>Nano Letters</i> , 2007 , 7, 2970-5	11.5	63
3	Spatial mapping on surface light extraction from 2D photonic quasicrystals patterned GaN-based light emitters. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007 , 4, 100-103		
2	Magnetic Doping Induced Strong Circularly Polarized Light Emission and Detection in 2D Layered Halide Perovskite. <i>Advanced Optical Materials</i> , 2200183	8.1	5
1	Manipulating Picosecond Photoresponse in van der Waals Heterostructure Photodetectors. <i>Advanced Functional Materials</i> , 2200973	15.6	