

Qihua Xiong

List of Publications by Year in descending order

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290
papers

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citations

3334

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all docs

300
docs citations

300
times ranked

32285
citing authors

#	ARTICLE	IF	CITATIONS
1	Controllable vortex lasing arrays in a geometrically frustrated exciton-polariton lattice at room temperature. National Science Review, 2023, 10, .	9.5	8
2	Highly Efficient Photothermal Conversion and Water Transport during Solar Evaporation Enabled by Amorphous Hollow Multishelled Nanocomposites. Advanced Materials, 2022, 34, e2107400.	21.0	68
3	Multidimensional nanoscopic chiroptics. Nature Reviews Physics, 2022, 4, 113-124.	26.6	87
4	Interfacial charge and energy transfer in van der Waals heterojunctions. Informa-Materially, 2022, 4, .	17.3	48
5	Strong Piezoelectricity in $3R\bar{c}$ -MoS ₂ Flakes. Advanced Electronic Materials, 2022, 8, .	5.1	20
6	Highly Efficient Photothermal Conversion and Water Transport during Solar Evaporation Enabled by Amorphous Hollow Multishelled Nanocomposites (Adv. Mater. 7/2022). Advanced Materials, 2022, 34, .	21.0	1
7	Macroscopic assembled graphene nanofilms based room temperature ultrafast mid-infrared photodetectors. Informa-Materially, 2022, 4, .	17.3	24
8	Nonlinear polariton parametric emission in an atomically thin semiconductor based microcavity. Nature Nanotechnology, 2022, 17, 396-402.	31.5	32
9	A room-temperature gate-tunable bipolar valley Hall effect in molybdenum disulfide/tungsten diselenide heterostructures. Nature Electronics, 2022, 5, 23-27.	26.0	16
10	Lateral layered semiconductor multijunctions for novel electronic devices. Chemical Society Reviews, 2022, 51, 4000-4022.	38.1	12
11	Van der Waals integration of high- $\hat{\rho}$ perovskite oxides and two-dimensional semiconductors. Nature Electronics, 2022, 5, 233-240.	26.0	68
12	Layer-Dependent Interlayer Antiferromagnetic Spin Reorientation in Air-Stable Semiconductor CrSBr. ACS Nano, 2022, 16, 11876-11883.	14.6	22
13	Recent developments on polariton lasers. Progress in Quantum Electronics, 2022, 83, 100399.	7.0	5
14	Announcing the Winner of the Inaugural <i>Nano Letters</i> Seed Grant Program, North America Region. Nano Letters, 2022, 22, 5067-5068.	9.1	3
15	One-step synthesis of single-site vanadium substitution in 1T-WS ₂ monolayers for enhanced hydrogen evolution catalysis. Nature Communications, 2021, 12, 709.	12.8	137
16	Strain-Modulated Photoelectric Responses from a Flexible $\hat{\pm}$ -In ₂ Se ₃ /3R MoS ₂ Heterojunction. Nano-Micro Letters, 2021, 13, 74.	27.0	31
17	Spontaneously coherent orbital coupling of counterrotating exciton polaritons in annular perovskite microcavities. Light: Science and Applications, 2021, 10, 45.	16.6	26
18	The Nano Research Young Innovators (NR45) Awards in two-dimensional materials. Nano Research, 2021, 14, 1575-1582.	10.4	1

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19	Nonlinear Parametric Scattering of Exciton Polaritons in Perovskite Microcavities. Nano Letters, 2021, 21, 3120-3126.	9.1	23
20	Observation of Strong Valley Magnetic Response in Monolayer Transition Metal Dichalcogenide Alloys of $\text{Mo}_{0.5}\text{W}_{0.5}\text{Se}_2$ and $\text{Mo}_{0.5}\text{W}_{0.5}\text{Se}_2/\text{WS}_2$ Heterostructures. ACS Nano, 2021, 15, 8397-8406.	14.6	8
21	Ultralow Threshold Polariton Condensate in a Monolayer Semiconductor Microcavity at Room Temperature. Nano Letters, 2021, 21, 3331-3339.	9.1	66
22	Optical switching of topological phase in a perovskite polariton lattice. Science Advances, 2021, 7, .	10.3	58
23	Light-matter interactions in high quality manganese-doped two-dimensional molybdenum diselenide. Science China Materials, 2021, 64, 2507-2518.	6.3	6
24	Evidence for Moiré Trions in Twisted MoSe_2 Homobilayers. Nano Letters, 2021, 21, 4461-4468.	9.1	31
25	Perovskite semiconductors for room-temperature exciton-polaritonics. Nature Materials, 2021, 20, 1315-1324.	27.5	109
26	Layer-engineered interlayer excitons. Science Advances, 2021, 7, .	10.3	22
27	Chiral Phonons and Giant Magneto-Optical Effect in CrBr_3 2D Magnet. Advanced Materials, 2021, 33, e2101618.	21.0	31
28	Direct Observation of Magnon-Phonon Strong Coupling in Two-Dimensional Antiferromagnet at High Magnetic Fields. Physical Review Letters, 2021, 127, 097401.	7.8	54
29	Spontaneous Polarity Flipping in a 2D Heterobilayer Induced by Fluctuating Interfacial Carrier Flows. Nano Letters, 2021, 21, 6773-6780.	9.1	7
30	Spin-Polarized Electrons Impact on Terahertz Emission by High-Order Shift Current in CsPbBr_3 . Advanced Optical Materials, 2021, 9, 2100822.	7.3	5
31	Room Temperature Exciton-Polariton Bose-Einstein Condensation in Organic Single-crystal Microribbon Cavities. Chemical Research in Chinese Universities, 2021, 37, 1348-1349.	2.6	0
32	Manipulating atomic defects in plasmonic vanadium dioxide for superior solar and thermal management. Materials Horizons, 2021, 8, 1700-1710.	12.2	13
33	Halide Perovskite Semiconductor Lasers: Materials, Cavity Design, and Low Threshold. Nano Letters, 2021, 21, 1903-1914.	9.1	220
34	Gigantic vortical differential scattering as a monochromatic probe for multiscale chiral structures. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	62
35	Recent Progress on Two-Dimensional Materials. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2021, .	4.9	269
36	Superluminal-like magnon propagation in antiferromagnetic NiO at nanoscale distances. Nature Nanotechnology, 2021, 16, 1337-1341.	31.5	24

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37	Tuning of the Berry curvature in 2D perovskite polaritons. <i>Nature Nanotechnology</i> , 2021, 16, 1349-1354.	31.5	38
38	Perovskite polariton parametric oscillator. <i>Advanced Photonics</i> , 2021, 3, .	11.8	13
39	Direct measurement of a non-Hermitian topological invariant in a hybrid light-matter system. <i>Science Advances</i> , 2021, 7, eabj8905.	10.3	48
40	All-optical switching based on interacting exciton polaritons in self-assembled perovskite microwires. <i>Science Advances</i> , 2021, 7, eabj6627.	10.3	47
41	Chiral plasmonics and enhanced chiral light-matter interactions. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	5.1	20
42	Air Stable Organic-Inorganic Perovskite Nanocrystals@Polymer Nanofibers and Waveguide Lasing. <i>Small</i> , 2020, 16, e2004409.	10.0	29
43	Identification of the Electronic and Structural Dynamics of Catalytic Centers in Single-Fe-Atom Material. <i>CheM</i> , 2020, 6, 3440-3454.	11.7	231
44	Transient circular dichroism and exciton spin dynamics in all-inorganic halide perovskites. <i>Nature Communications</i> , 2020, 11, 5665.	12.8	29
45	Room-Temperature Valley Polarization in Atomically Thin Semiconductors via Chalcogenide Alloying. <i>ACS Nano</i> , 2020, 14, 9873-9883.	14.6	30
46	Direct and indirect exciton transitions in two-dimensional lead halide perovskite semiconductors. <i>Journal of Chemical Physics</i> , 2020, 153, 064705.	3.0	10
47	Green Grinding-Coassembly Engineering toward Intrinsically Luminescent Tetracene in Cocrystals. <i>ACS Nano</i> , 2020, 14, 15962-15972.	14.6	54
48	Trion-Mediated Förster Resonance Energy Transfer and Optical Gating Effect in WS ₂ /hBN/MoSe ₂ Heterojunction. <i>ACS Nano</i> , 2020, 14, 13470-13477.	14.6	29
49	Bose-Einstein condensation of exciton polariton in perovskites semiconductors. <i>Frontiers of Optoelectronics</i> , 2020, 13, 193-195.	3.7	4
50	Nonlinear optical properties of halide perovskites and their applications. <i>Applied Physics Reviews</i> , 2020, 7, .	11.3	114
51	High yield production of ultrathin fibroid semiconducting nanowire of Ta ₂ Pd ₃ Se ₈ . <i>Nano Research</i> , 2020, 13, 1627-1635.	10.4	16
52	Bright Exciton Fine-Structure in Two-Dimensional Lead Halide Perovskites. <i>Nano Letters</i> , 2020, 20, 5141-5148.	9.1	57
53	Manipulating Charge and Energy Transfer between 2D Atomic Layers via Heterostructure Engineering. <i>Nano Letters</i> , 2020, 20, 5359-5366.	9.1	51
54	B5N5 monolayer: a room-temperature light element antiferromagnetic insulator. <i>Nanoscale Advances</i> , 2020, 2, 4421-4426.	4.6	3

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55	Probing momentum-indirect excitons by near-resonance photoluminescence excitation spectroscopy in WS ₂ monolayer. 2D Materials, 2020, 7, 031002.	4.4	17
56	Optical Spectroscopy of Single Colloidal CsPbBr ₃ Perovskite Nanoplatelets. Nano Letters, 2020, 20, 3673-3680.	9.1	47
57	Enhanced Valley Zeeman Splitting in Fe-Doped Monolayer MoS ₂ . ACS Nano, 2020, 14, 4636-4645.	14.6	69
58	Advanced optical gain materials keep on giving. Science China Materials, 2020, 63, 1345-1347.	6.3	4
59	Dynamics of exciton energy renormalization in monolayer transition metal disulfides. Nano Research, 2020, 13, 1399-1405.	10.4	27
60	Observation of exciton polariton condensation in a perovskite lattice at room temperature. Nature Physics, 2020, 16, 301-306.	16.7	159
61	Nonlayered CdSe Flakes Homojunctions. Advanced Functional Materials, 2020, 30, 1908902.	14.9	28
62	van der Waals Epitaxy of Earth-Abundant Zn ₃ P ₂ on Graphene for Photovoltaics. Crystal Growth and Design, 2020, 20, 3816-3825.	3.0	24
63	Efficient up-conversion photoluminescence in all-inorganic lead halide perovskite nanocrystals. Nano Research, 2020, 13, 1962-1969.	10.4	27
64	Golden hour for perovskite photonics. Photonics Research, 2020, 8, PP1.	7.0	15
65	Solution-processed n-type Bi ₂ Te _{3-x} Se _x nanocomposites with enhanced thermoelectric performance via liquid-phase sintering. Science China Materials, 2019, 62, 389-398.	6.3	25
66	Ultrawideband Surface Enhanced Raman Scattering in Hybrid Graphene Fragmented-Gold Substrates via Cold-Etching. Advanced Optical Materials, 2019, 7, 1900905.	7.3	13
67	High-Order Shift Current Induced Terahertz Emission from Inorganic Cesium Bromine Lead Perovskite Engendered by Two-Photon Absorption. Advanced Functional Materials, 2019, 29, 1904694.	14.9	26
68	Two-dimensional materials: new opportunities for electronics, photonics and optoelectronics. Science Bulletin, 2019, 64, 1031-1032.	9.0	6
69	Growth of 2H stacked WSe ₂ bilayers on sapphire. Nanoscale Horizons, 2019, 4, 1434-1442.	8.0	20
70	Manipulating efficient light emission in two-dimensional perovskite crystals by pressure-induced anisotropic deformation. Science Advances, 2019, 5, eaav9445.	10.3	130
71	Single Halide Perovskite/Semiconductor Core/Shell Quantum Dots with Ultrastability and Nonblinking Properties. Advanced Science, 2019, 6, 1900412.	11.2	131
72	Reply to: Can lasers really refrigerate CdS nanobelts?. Nature, 2019, 570, E62-E64.	27.8	4

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73	Layered Structure Causes Bulk NiFe Layered Double Hydroxide Unstable in Alkaline Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2019, 31, e1903909.	21.0	345
74	Bottom-up growth of homogeneous Moiré superlattices in bismuth oxychloride spiral nanosheets. <i>Nature Communications</i> , 2019, 10, 4472.	12.8	59
75	Polarization-Dependent Lateral Optical Force of Subwavelength-Diameter Optical Fibers. <i>Micromachines</i> , 2019, 10, 630.	2.9	1
76	Linearly Polarized Luminescence of Atomically Thin MoS ₂ Semiconductor Nanocrystals. <i>ACS Nano</i> , 2019, 13, 13006-13014.	14.6	24
77	Ultrafast Modulation of Exciton-Plasmon Coupling in a Monolayer WS ₂ -Ag Nanodisk Hybrid System. <i>ACS Photonics</i> , 2019, 6, 2832-2840.	6.6	52
78	Controllable Growth of Centimeter-Sized 2D Perovskite Heterostructures for Highly Narrow Dual-Band Photodetectors. <i>ACS Nano</i> , 2019, 13, 5473-5484.	14.6	110
79	The Role of Polarity in Nonplanar Semiconductor Nanostructures. <i>Nano Letters</i> , 2019, 19, 3396-3408.	9.1	31
80	One-Step Vapor-Phase Synthesis and Quantum-Confined Exciton in Single-Crystal Platelets of Hybrid Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2363-2371.	4.6	25
81	Room temperature nanocavity laser with interlayer excitons in 2D heterostructures. <i>Science Advances</i> , 2019, 5, eaav4506.	10.3	108
82	Optical initialization of a single spin-valley in charged WSe ₂ quantum dots. <i>Nature Nanotechnology</i> , 2019, 14, 426-431.	31.5	46
83	In-Plane Anisotropic Properties of 1Tâ€²â€²MoS ₂ Layers. <i>Advanced Materials</i> , 2019, 31, e1807764.	21.0	55
84	InfoMat : A cross-field exploration of information technology and materials science. <i>Information Materials</i> , 2019, 1, 4-5.	17.3	4
85	Adaptive ThermoChromic Windows from Active Plasmonic Elastomers. <i>Joule</i> , 2019, 3, 858-871.	24.0	128
86	In-Plane Anisotropic Thermal Conductivity of Few-Layered Transition Metal Dichalcogenide Tdâ€²WTe ₂ . <i>Advanced Materials</i> , 2019, 31, e1804979.	21.0	45
87	Raman Spectroscopy of Isotropic Two-Dimensional Materials Beyond Graphene. <i>Springer Series in Materials Science</i> , 2019, , 29-52.	0.6	1
88	Enhanced Second Harmonic Generation from Ferroelectric HfO ₂ -Based Hybrid Metasurfaces. <i>ACS Nano</i> , 2019, 13, 1213-1222.	14.6	29
89	Entanglement of single-photons and chiral phonons in atomically thin WSe ₂ . <i>Nature Physics</i> , 2019, 15, 221-227.	16.7	80
90	Silicon nitride nanobeam enhanced emission from all-inorganic perovskite nanocrystals. <i>Optics Express</i> , 2019, 27, 18673.	3.4	11

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91	Microsecond dark-exciton valley polarization memory in two-dimensional heterostructures. <i>Nature Communications</i> , 2018, 9, 753.	12.8	96
92	A general soft-enveloping strategy in the templating synthesis of mesoporous metal nanostructures. <i>Nature Communications</i> , 2018, 9, 521.	12.8	94
93	Plasmonic Hot Carriers-Controlled Second Harmonic Generation in WSe_2 Bilayers. <i>Nano Letters</i> , 2018, 18, 1686-1692.	9.1	64
94	Molecular Barrier-Enhanced Aromatic Fluorophores in Cocrystals with Unity Quantum Efficiency. <i>Angewandte Chemie</i> , 2018, 130, 1946-1950.	2.0	23
95	Molecular Barrier-Enhanced Aromatic Fluorophores in Cocrystals with Unity Quantum Efficiency. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1928-1932.	13.8	100
96	Surface Plasmon Enhanced Strong Exciton-Photon Coupling in Hybrid Inorganic-Organic Perovskite Nanowires. <i>Nano Letters</i> , 2018, 18, 3335-3343.	9.1	133
97	Highly Efficient Visible Colloidal Lead-Halide Perovskite Nanocrystal Light-Emitting Diodes. <i>Nano Letters</i> , 2018, 18, 3157-3164.	9.1	199
98	High phase-purity $1T\text{-}MoS_2$ - and $1T\text{-}MoSe_2$ -layered crystals. <i>Nature Chemistry</i> , 2018, 10, 638-643.	13.6	757
99	Scientific and Technological Assessment of Iron Pyrite for Use in Solar Devices. <i>Energy Technology</i> , 2018, 6, 8-20.	3.8	21
100	Tunable excitonic emission of monolayer WS_2 for the optical detection of DNA nucleobases. <i>Nano Research</i> , 2018, 11, 1744-1754.	10.4	20
101	Nanoscale Switching of Near-Infrared Hot Spots in Plasmonic Oligomers Probed by Two-Photon Absorption in Photopolymers. <i>ACS Photonics</i> , 2018, 5, 918-928.	6.6	16
102	Optical spin pumping induced pseudomagnetic field in two-dimensional heterostructures. <i>Physical Review B</i> , 2018, 98, .	3.2	10
103	Synthesis, structure and nonlinear optical properties of solution-processed Bi_2TeO_5 nanocrystals. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10435-10440.	5.5	10
104	Perovskite light-emitting diodes with external quantum efficiency exceeding 20 per cent. <i>Nature</i> , 2018, 562, 245-248.	27.8	2,589
105	Room temperature long-range coherent exciton polariton condensate flow in lead halide perovskites. <i>Science Advances</i> , 2018, 4, eaau0244.	10.3	111
106	Black Phosphorus: Abnormal Near-Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization (<i>Adv. Mater.</i> 43/2018). <i>Advanced Materials</i> , 2018, 30, 1870325.	21.0	0
107	Two-Dimensional and Emission-Tunable: An Unusual Perovskite Constructed from Lindqvist-Type $[Pb_6Br_{19}]^{7-}$ Nanoclusters. <i>Inorganic Chemistry</i> , 2018, 57, 14035-14038.	4.0	23
108	A 3D Haloplumbate Framework Constructed From Unprecedented Lindqvist-Like Highly Coordinated $[Pb_6Br_{25}]^{13-}$ Nanoclusters with Temperature-Dependent Emission. <i>Chemistry - an Asian Journal</i> , 2018, 13, 3185-3189.	3.3	26

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109	Color-stable highly luminescent sky-blue perovskite light-emitting diodes. Nature Communications, 2018, 9, 3541.	12.8	536
110	Doubly Enhanced Second Harmonic Generation through Structural and Epsilon-near-Zero Resonances in TiN Nanostructures. ACS Photonics, 2018, 5, 2087-2093.	6.6	49
111	Photonics and Optoelectronics of 2D Metal-Halide Perovskites. Small, 2018, 14, e1800682.	10.0	168
112	Spin control in reduced-dimensional chiral perovskites. Nature Photonics, 2018, 12, 528-533.	31.4	371
113	Abnormal Near-Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization. Advanced Materials, 2018, 30, e1801931.	21.0	43
114	Room Temperature Coherently Coupled Exciton-Polaritons in Two-Dimensional Organic-Inorganic Perovskite. ACS Nano, 2018, 12, 8382-8389.	14.6	107
115	Nanoscale interfaces made easily. Nature, 2018, 553, 32-34.	27.8	2
116	Li-Ion Batteries: Multifunctional 2D Ni ₂ P Nanocrystals-Black Phosphorus Heterostructure (Adv. Energy Mater. 2/2017). Advanced Energy Materials, 2017, 7, .	19.5	0
117	Giant Two-Photon Absorption and Its Saturation in 2D Organic-Inorganic Perovskite. Advanced Optical Materials, 2017, 5, 1601045.	7.3	175
118	Inflection Point of the Localized Surface Plasmon Resonance Peak: A General Method to Improve the Sensitivity. ACS Sensors, 2017, 2, 235-242.	7.8	52
119	Temperature effect of the compact TiO ₂ layer in planar perovskite solar cells: An interfacial electrical, optical and carrier mobility study. Solar Energy Materials and Solar Cells, 2017, 163, 242-249.	6.2	36
120	Thermal conductivity of suspended single crystal CH ₃ NH ₃ PbI ₃ platelets at room temperature. Nanoscale, 2017, 9, 8281-8287.	5.6	20
121	Controllable Fabrication of Two-Dimensional Patterned VO ₂ Nanoparticle, Nanodome, and Nanonet Arrays with Tunable Temperature-Dependent Localized Surface Plasmon Resonance. ACS Nano, 2017, 11, 7542-7551.	14.6	152
122	Room-Temperature Polariton Lasing in All-Inorganic Perovskite Nanoplatelets. Nano Letters, 2017, 17, 3982-3988.	9.1	311
123	Coherent control of a strongly driven silicon vacancy optical transition in diamond. Nature Communications, 2017, 8, 14451.	12.8	57
124	Minority Carrier Blocking to Enhance the Thermoelectric Performance of Solution-Processed Bi ₂ Sb ₂ Te ₃ Nanocomposites via a Liquid-Phase Sintering Process. ACS Applied Materials & Interfaces, 2017, 9, 12501-12510.	8.0	46
125	Correlated fluorescence blinking in two-dimensional semiconductor heterostructures. Nature, 2017, 541, 62-67.	27.8	158
126	Metal halide perovskite nanomaterials: synthesis and applications. Chemical Science, 2017, 8, 2522-2536.	7.4	233

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127	Interfacial Interactions in van der Waals Heterostructures of MoS ₂ and Graphene. ACS Nano, 2017, 11, 11714-11723.	14.6	92
128	Optical study on intrinsic exciton states in high-quality CH_2Br_2 single crystals. Physical Review B, 2017, 96, .	3.2	26
129	Plasmonic heating from indium nanoparticles on a floating microporous membrane for enhanced solar seawater desalination. Nanoscale, 2017, 9, 12843-12849.	5.6	91
130	Advances in Small Perovskite-Based Lasers. Small Methods, 2017, 1, 1700163.	8.6	268
131	Bright Photon Upconversion on Composite Organic Lanthanide Molecules through Localized Thermal Radiation. Journal of Physical Chemistry Letters, 2017, 8, 5695-5699.	4.6	25
132	Gate-Tunable Resonant Raman Spectroscopy of Bilayer MoS ₂ . Small, 2017, 13, 1701039.	10.0	32
133	Observation of forbidden phonons, Fano resonance and dark excitons by resonance Raman scattering in few-layer WS ₂ . 2D Materials, 2017, 4, 031007.	4.4	41
134	Broadband Absorbing Semiconducting Polymer Nanoparticles for Photoacoustic Imaging in Second Near-Infrared Window. Nano Letters, 2017, 17, 4964-4969.	9.1	356
135	Multifunctional OD ^{2D} Ni ₂ P Nanocrystals@Black Phosphorus Heterostructure. Advanced Energy Materials, 2017, 7, 1601285.	19.5	149
136	Broadband Tunable Hybrid Photonic Crystal-Nanowire Light Emitter. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-8.	2.9	9
137	Phonon-Assisted Anti-Stokes Lasing in ZnTe Nanoribbons. Advanced Materials, 2016, 28, 276-283.	21.0	41
138	Resolved-sideband Raman cooling of an optical phonon in semiconductor materials. Nature Photonics, 2016, 10, 600-605.	31.4	42
139	Second-harmonic generation in quaternary atomically thin layered AgInP ₂ S ₆ crystals. Applied Physics Letters, 2016, 109, 123103.	3.3	19
140	Raman spectroscopy of atomically thin two-dimensional magnetic iron phosphorus trisulfide (FePS ₃). Nature Communications, 2016, 7, 11714-11723.	4.4	299
141	Solution-processed highly bright and durable cesium lead halide perovskite light-emitting diodes. Nanoscale, 2016, 8, 18021-18026.	5.6	160
142	Gold nanorings synthesized via a stress-driven collapse and etching mechanism. NPG Asia Materials, 2016, 8, e323-e323.	7.9	17
143	Lattice vibrations and Raman scattering in two-dimensional layered materials beyond graphene. Nano Research, 2016, 9, 3559-3597.	10.4	93
144	High-Quality Whispering-Gallery-Mode Lasing from Cesium Lead Halide Perovskite Nanoplatelets. Advanced Functional Materials, 2016, 26, 6238-6245.	14.9	529

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145	In Situ Spectroscopic Identification of $\frac{1}{4}$ -OO Bridging on Spinel Co_3O_4 Water Oxidation Electrocatalyst. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4847-4853.	4.6	136
146	CdS bulk crystal growth by optical floating zone method: strong photoluminescence upconversion and minimum trapped state emission. <i>Optical Engineering</i> , 2016, 56, 011109.	1.0	7
147	High brightness formamidinium lead bromide perovskite nanocrystal light emitting devices. <i>Scientific Reports</i> , 2016, 6, 36733.	3.3	134
148	Control of Radiative Exciton Recombination by Charge Transfer Induced Surface Dipoles in MoS_2 and WS_2 Monolayers. <i>Scientific Reports</i> , 2016, 6, 24105.	3.3	32
149	Ultrafast Photogenerated Hole Extraction/Transport Behavior in a $\text{CH}_3\text{NH}_3\text{PbI}_3$ /Carbon Nanocomposite and Its Application in a Metal-Free Solar Cell. <i>ChemPhysChem</i> , 2016, 17, 4102-4109.	2.1	21
150	Enhanced thermoelectric performance of solution-derived bismuth telluride based nanocomposites via liquid-phase Sintering. <i>Nano Energy</i> , 2016, 30, 630-638.	16.0	78
151	A large scale perfect absorber and optical switch based on phase change material ($\text{Ge}_2\text{Sb}_2\text{Te}_5$) thin film. <i>Science China Materials</i> , 2016, 59, 165-172.	6.3	24
152	Anomalous photoresponse in the deep-ultraviolet due to resonant excitonic effects in oxygen plasma treated few-layer graphene. <i>Carbon</i> , 2016, 106, 330-335.	10.3	19
153	High-Efficiency Light-Emitting Diodes of Organometal Halide Perovskite Amorphous Nanoparticles. <i>ACS Nano</i> , 2016, 10, 6623-6630.	14.6	347
154	Origin of Photocarrier Losses in Iron Pyrite (FeS_2) Nanocubes. <i>ACS Nano</i> , 2016, 10, 4431-4440.	14.6	56
155	Exciton dynamics in luminescent carbon nanodots: Electron-hole exchange interaction. <i>Nano Research</i> , 2016, 9, 549-559.	10.4	9
156	Laser cooling of organic-inorganic lead halide perovskites. <i>Nature Photonics</i> , 2016, 10, 115-121.	31.4	282
157	Weak Van der Waals Stacking, Wide-Range Band Gap, and Raman Study on Ultrathin Layers of Metal Phosphorus Trichalcogenides. <i>ACS Nano</i> , 2016, 10, 1738-1743.	14.6	396
158	Nonlinear optical response of Au nanorods for broadband pulse modulation in bulk visible lasers. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	25
159	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
160	Rapid and Nondestructive Identification of Polytypism and Stacking Sequences in Few-Layer Molybdenum Diselenide by Raman Spectroscopy. <i>Advanced Materials</i> , 2015, 27, 4502-4508.	21.0	96
161	High-Order Nonlinearity of Surface Plasmon Resonance in Au Nanoparticles: Paradoxical Combination of Saturable and Reverse-Saturable Absorption. <i>Advanced Optical Materials</i> , 2015, 3, 1342-1348.	7.3	40
162	Vapor Phase Synthesis of Organometal Halide Perovskite Nanowires for Tunable Room-Temperature Nanolasers. <i>Nano Letters</i> , 2015, 15, 4571-4577.	9.1	405

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