

Qihua Xiong

List of Publications by Year in descending order

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290
papers

28,885
citations

3333

91
h-index

5820

161
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300
all docs

300
docs citations

300
times ranked

32285
citing authors

#	ARTICLE	IF	CITATIONS
1	Perovskite light-emitting diodes with external quantum efficiency exceeding 20 per cent. <i>Nature</i> , 2018, 562, 245-248.	13.7	2,589
2	High phase-purity 1T MoS_2 - and 1T MoSe_2 -layered crystals. <i>Nature Chemistry</i> , 2018, 10, 638-643.	6.6	757
3	Room-Temperature Near-Infrared High-Q Perovskite Whispering-Gallery Planar Nanolasers. <i>Nano Letters</i> , 2014, 14, 5995-6001.	4.5	702
4	Interlayer Breathing and Shear Modes in Few-Trilayer MoS_2 and WSe_2 . <i>Nano Letters</i> , 2013, 13, 1007-1015.	4.5	576
5	Color-stable highly luminescent sky-blue perovskite light-emitting diodes. <i>Nature Communications</i> , 2018, 9, 3541.	5.8	536
6	High-Quality Whispering-Gallery-Mode Lasing from Cesium Lead Halide Perovskite Nanoplatelets. <i>Advanced Functional Materials</i> , 2016, 26, 6238-6245.	7.8	529
7	Laminated Carbon Nanotube Networks for Metal Electrode-Free Efficient Perovskite Solar Cells. <i>ACS Nano</i> , 2014, 8, 6797-6804.	7.3	427
8	Raman Spectroscopy of Few-Quintuple Layer Topological Insulator Bi_2Se_3 Nanoplatelets. <i>Nano Letters</i> , 2011, 11, 2407-2414.	4.5	409
9	Vapor Phase Synthesis of Organometal Halide Perovskite Nanowires for Tunable Room-Temperature Nanolasers. <i>Nano Letters</i> , 2015, 15, 4571-4577.	4.5	405
10	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.	7.3	396
11	Large-Area Synthesis of Monolayer and Few-Layer MoSe_2 Films on SiO_2 Substrates. <i>Nano Letters</i> , 2014, 14, 2419-2425.	4.5	376
12	Spin control in reduced-dimensional chiral perovskites. <i>Nature Photonics</i> , 2018, 12, 528-533.	15.6	371
13	InAs/InP Radial Nanowire Heterostructures as High Electron Mobility Devices. <i>Nano Letters</i> , 2007, 7, 3214-3218.	4.5	366
14	Synthesis of Organic-Inorganic Lead Halide Perovskite Nanoplatelets: Towards High-Performance Perovskite Solar Cells and Optoelectronic Devices. <i>Advanced Optical Materials</i> , 2014, 2, 838-844.	3.6	363
15	Rapid and Reliable Thickness Identification of Two-Dimensional Nanosheets Using Optical Microscopy. <i>ACS Nano</i> , 2013, 7, 10344-10353.	7.3	359
16	Broadband Absorbing Semiconducting Polymer Nanoparticles for Photoacoustic Imaging in Second Near-Infrared Window. <i>Nano Letters</i> , 2017, 17, 4964-4969.	4.5	356
17	Enhanced Thermoelectric Properties of Solution Grown $\text{Bi}_2\text{Te}_3/\text{Se}$ Nanoplatelet Composites. <i>Nano Letters</i> , 2012, 12, 1203-1209.	4.5	348
18	High-Efficiency Light-Emitting Diodes of Organometal Halide Perovskite Amorphous Nanoparticles. <i>ACS Nano</i> , 2016, 10, 6623-6630.	7.3	347

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19	Layered Structure Causes Bulk NiFe Layered Double Hydroxide Unstable in Alkaline Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2019, 31, e1903909.	11.1	345
20	Electronic Properties of Semiconductor Nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 1-26.	0.9	317
21	Room-Temperature Polariton Lasing in All-Inorganic Perovskite Nanoplatelets. <i>Nano Letters</i> , 2017, 17, 3982-3988.	4.5	311
22	High-yield synthesis and optical properties of g-C ₃ N ₄ . <i>Nanoscale</i> , 2015, 7, 12343-12350.	2.8	303
23	Raman spectroscopy of atomically thin two-dimensional magnetic iron phosphorus trisulfide (FePS ₃). <i>Nature Nanotechnology</i> , 2017, 12, 1031-1035.	2.0	299
24	Local electrical potential detection of DNA by nanowire-based nanopore sensors. <i>Nature Nanotechnology</i> , 2012, 7, 119-125.	15.6	288
25	Laser cooling of organic-inorganic lead halide perovskites. <i>Nature Photonics</i> , 2016, 10, 115-121.	15.6	282
26	A room temperature low-threshold ultraviolet plasmonic nanolaser. <i>Nature Communications</i> , 2014, 5, 4953.	5.8	278
27	Recent Progress on Two-Dimensional Materials. <i>Wuli Huaxue Xuebao/ Acta Physico-Chimica Sinica</i> , 2021, .	2.2	269
28	Advances in Small Perovskite-Based Lasers. <i>Small Methods</i> , 2017, 1, 1700163.	4.6	268
29	Laser cooling of a semiconductor by 40 kelvin. <i>Nature</i> , 2013, 493, 504-508.	13.7	264
30	Highly Sensitive, Uniform, and Reproducible Surface-Enhanced Raman Spectroscopy from Hollow Au-Ag Alloy Nanourchins. <i>Advanced Materials</i> , 2014, 26, 2431-2439.	11.1	240
31	Ultrafast Carrier Thermalization and Cooling Dynamics in Few-Layer MoS ₂ . <i>ACS Nano</i> , 2014, 8, 10931-10940.	7.3	236
32	Metal halide perovskite nanomaterials: synthesis and applications. <i>Chemical Science</i> , 2017, 8, 2522-2536.	3.7	233
33	Identification of the Electronic and Structural Dynamics of Catalytic Centers in Single-Fe-Atom Material. <i>Chem</i> , 2020, 6, 3440-3454.	5.8	231
34	Growth of wafer-scale MoS ₂ monolayer by magnetron sputtering. <i>Nanoscale</i> , 2015, 7, 2497-2503.	2.8	225
35	Halide Perovskite Semiconductor Lasers: Materials, Cavity Design, and Low Threshold. <i>Nano Letters</i> , 2021, 21, 1903-1914.	4.5	220
36	Vertically Aligned Gold Nanorod Monolayer on Arbitrary Substrates: Self-Assembly and Femtomolar Detection of Food Contaminants. <i>ACS Nano</i> , 2013, 7, 5993-6000.	7.3	218

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37	Flexible Visible-Infrared Metamaterials and Their Applications in Highly Sensitive Chemical and Biological Sensing. Nano Letters, 2011, 11, 3232-3238.	4.5	215
38	Effects of lower symmetry and dimensionality on Raman spectra in two-dimensional WSe ₂ . Physical Review B, 2013, 88, .	1.1	204
39	Highly Efficient Visible Colloidal Lead-Halide Perovskite Nanocrystal Light-Emitting Diodes. Nano Letters, 2018, 18, 3157-3164.	4.5	199
40	Optical Properties of Rectangular Cross-sectional ZnS Nanowires. Nano Letters, 2004, 4, 1663-1668.	4.5	194
41	Raman Scattering from Surface Phonons in Rectangular Cross-sectional w-ZnS Nanowires. Nano Letters, 2004, 4, 1991-1996.	4.5	190
42	Direct growth of large-area graphene and boron nitride heterostructures by a co-segregation method. Nature Communications, 2015, 6, 6519.	5.8	190
43	Ordered Array of Gold Semishells on TiO ₂ Spheres: An Ultrasensitive and Recyclable SERS Substrate. ACS Applied Materials & Interfaces, 2012, 4, 2180-2185.	4.0	186
44	Giant Two-Photon Absorption and Its Saturation in 2D Organic-Inorganic Perovskite. Advanced Optical Materials, 2017, 5, 1601045.	3.6	175
45	Photonics and Optoelectronics of 2D Metal-Halide Perovskites. Small, 2018, 14, e1800682.	5.2	168
46	Polarity Assignment in ZnTe, GaAs, ZnO, and GaN-AlN Nanowires from Direct Dumbbell Analysis. Nano Letters, 2012, 12, 2579-2586.	4.5	161
47	Solution-processed highly bright and durable cesium lead halide perovskite light-emitting diodes. Nanoscale, 2016, 8, 18021-18026.	2.8	160
48	Observation of exciton polariton condensation in a perovskite lattice at room temperature. Nature Physics, 2020, 16, 301-306.	6.5	159
49	Correlated fluorescence blinking in two-dimensional semiconductor heterostructures. Nature, 2017, 541, 62-67.	13.7	158
50	A graphene-cobalt oxide based needle electrode for non-enzymatic glucose detection in micro-droplets. Chemical Communications, 2012, 48, 6490.	2.2	155
51	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.	7.3	152
52	Interface Driven Energy Filtering of Thermoelectric Power in Spark Plasma Sintered Bi ₂ Te _{2.7} Se _{0.3} Nanoplatelet Composites. Nano Letters, 2012, 12, 4305-4310.	4.5	149
53	Multifunctional OD-2D Ni ₂ P Nanocrystals-Black Phosphorus Heterostructure. Advanced Energy Materials, 2017, 7, 1601285.	10.2	149
54	Wavelength Tunable Single Nanowire Lasers Based on Surface Plasmon Polariton Enhanced Burstein-Moss Effect. Nano Letters, 2013, 13, 5336-5343.	4.5	145

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55	Recent developments and future directions in the growth of nanostructures by van der Waals epitaxy. <i>Nanoscale</i> , 2013, 5, 3570.	2.8	144
56	Optimizing Electromagnetic Hotspots in Plasmonic Bowtie Nanoantennae. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 496-501.	2.1	138
57	Iron Pyrite Thin Film Counter Electrodes for Dye-Sensitized Solar Cells: High Efficiency for Iodine and Cobalt Redox Electrolyte Cells. <i>ACS Nano</i> , 2014, 8, 10597-10605.	7.3	138
58	One-step synthesis of single-site vanadium substitution in 1T-WS ₂ monolayers for enhanced hydrogen evolution catalysis. <i>Nature Communications</i> , 2021, 12, 709.	5.8	137
59	In Situ Spectroscopic Identification of $\frac{1}{4}$ -OO Bridging on Spinel Co ₃ O ₄ Water Oxidation Electrocatalyst. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4847-4853.	2.1	136
60	High brightness formamidinium lead bromide perovskite nanocrystal light emitting devices. <i>Scientific Reports</i> , 2016, 6, 36733.	1.6	134
61	Coherent Twinning Phenomena: Towards Twinning Superlattices in III ^v Semiconducting Nanowires. <i>Nano Letters</i> , 2006, 6, 2736-2742.	4.5	133
62	Tailoring the Lasing Modes in Semiconductor Nanowire Cavities Using Intrinsic Self-Absorption. <i>Nano Letters</i> , 2013, 13, 1080-1085.	4.5	133
63	Surface Plasmon Enhanced Strong Exciton-Photon Coupling in Hybrid Inorganic-Organic Perovskite Nanowires. <i>Nano Letters</i> , 2018, 18, 3335-3343.	4.5	133
64	Dynamics of Bound Exciton Complexes in CdS Nanobelts. <i>ACS Nano</i> , 2011, 5, 3660-3669.	7.3	132
65	Single Halide Perovskite/Semiconductor Core/Shell Quantum Dots with Ultrastability and Nonblinking Properties. <i>Advanced Science</i> , 2019, 6, 1900412.	5.6	131
66	Manipulating efficient light emission in two-dimensional perovskite crystals by pressure-induced anisotropic deformation. <i>Science Advances</i> , 2019, 5, eaav9445.	4.7	130
67	Adaptive Thermochromic Windows from Active Plasmonic Elastomers. <i>Joule</i> , 2019, 3, 858-871.	11.7	128
68	Phonons in Bi ₂ S ₃ nanostructures: Raman scattering and first-principles studies. <i>Physical Review B</i> , 2011, 84, .	1.1	126
69	Mechanical Properties of ZnS Nanobelts. <i>Nano Letters</i> , 2005, 5, 1982-1986.	4.5	121
70	Whispering Gallery Mode Lasing from Hexagonal Shaped Layered Lead Iodide Crystals. <i>ACS Nano</i> , 2015, 9, 687-695.	7.3	118
71	Incommensurate van der Waals Epitaxy of Nanowire Arrays: A Case Study with ZnO on Muscovite Mica Substrates. <i>Nano Letters</i> , 2012, 12, 2146-2152.	4.5	117
72	Vertically integrated, three-dimensional nanowire complementary metal-oxide-semiconductor circuits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 21035-21038.	3.3	116

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73	Optical and Excitonic Properties of Crystalline ZnS Nanowires: Toward Efficient Ultraviolet Emission at Room Temperature. Nano Letters, 2010, 10, 4956-4961.	4.5	114
74	Nonlinear optical properties of halide perovskites and their applications. Applied Physics Reviews, 2020, 7, .	5.5	114
75	Room temperature long-range coherent exciton polariton condensate flow in lead halide perovskites. Science Advances, 2018, 4, eaau0244.	4.7	111
76	Layer-by-layer thinning of MoS ₂ by thermal annealing. Nanoscale, 2013, 5, 8904-8908.	2.8	110
77	Controllable Growth of Centimeter-Sized 2D Perovskite Heterostructures for Highly Narrow Dual-Band Photodetectors. ACS Nano, 2019, 13, 5473-5484.	7.3	110
78	Exciton-phonon coupling in individual ZnTe nanorods studied by resonant Raman spectroscopy. Physical Review B, 2012, 85, .	1.1	109
79	Perovskite semiconductors for room-temperature exciton-polaritonics. Nature Materials, 2021, 20, 1315-1324.	13.3	109
80	Optical Antenna Effect in Semiconducting Nanowires. Nano Letters, 2008, 8, 1341-1346.	4.5	108
81	Room temperature nanocavity laser with interlayer excitons in 2D heterostructures. Science Advances, 2019, 5, eaav4506.	4.7	108
82	Room Temperature Coherently Coupled Exciton-Polaritons in Two-Dimensional Organic-Inorganic Perovskite. ACS Nano, 2018, 12, 8382-8389.	7.3	107
83	Metamaterials-Based Label-Free Nanosensor for Conformation and Affinity Biosensing. ACS Nano, 2013, 7, 7583-7591.	7.3	104
84	Anomalous frequency trends in MoS ₂ thin films attributed to surface effects. Physical Review B, 2013, 88, .	1.1	104
85	Charge-Induced Second-Harmonic Generation in Bilayer WSe ₂ . Nano Letters, 2015, 15, 5653-5657.	4.5	101
86	Large Frequency Change with Thickness in Interlayer Breathing Mode-Significant Interlayer Interactions in Few Layer Black Phosphorus. Nano Letters, 2015, 15, 3931-3938.	4.5	100
87	Molecular-Barrier-Enhanced Aromatic Fluorophores in Cocrystals with Unity Quantum Efficiency. Angewandte Chemie - International Edition, 2018, 57, 1928-1932.	7.2	100
88	Multiple Magnetic Mode-Based Fano Resonance in Split-Ring Resonator/Disk Nanocavities. ACS Nano, 2013, 7, 11071-11078.	7.3	97
89	Rapid and Nondestructive Identification of Polytypism and Stacking Sequences in Few-Layer Molybdenum Diselenide by Raman Spectroscopy. Advanced Materials, 2015, 27, 4502-4508.	11.1	96
90	Microsecond dark-exciton valley polarization memory in two-dimensional heterostructures. Nature Communications, 2018, 9, 753.	5.8	96

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91	Vertically Aligned Cadmium Chalcogenide Nanowire Arrays on Muscovite Mica: A Demonstration of Epitaxial Growth Strategy. <i>Nano Letters</i> , 2011, 11, 3051-3057.	4.5	94
92	Controlled growth of bismuth antimony telluride Bi ₂ SbTe ₃ nanoplatelets and their bulk thermoelectric nanocomposites. <i>Nano Energy</i> , 2015, 15, 688-696.	8.2	94
93	A general soft-enveloping strategy in the templating synthesis of mesoporous metal nanostructures. <i>Nature Communications</i> , 2018, 9, 521.	5.8	94
94	Lattice vibrations and Raman scattering in two-dimensional layered materials beyond graphene. <i>Nano Research</i> , 2016, 9, 3559-3597.	5.8	93
95	Interfacial Interactions in van der Waals Heterostructures of MoS ₂ and Graphene. <i>ACS Nano</i> , 2017, 11, 11714-11723.	7.3	92
96	Plasmonic heating from indium nanoparticles on a floating microporous membrane for enhanced solar seawater desalination. <i>Nanoscale</i> , 2017, 9, 12843-12849.	2.8	91
97	Interlayer vibrational modes in few-quintuple-layer Bi ₂ Te ₃ crystals: Raman spectroscopy and. <i>Physical Review B</i> , 2014, 90, .	5.1	87
98	Multidimensional nanoscopic chiroptics. <i>Nature Reviews Physics</i> , 2022, 4, 113-124.	11.9	87
99	Assembly of Colloidal Nanoparticles Directed by the Microstructures of Polycrystalline Ice. <i>ACS Nano</i> , 2011, 5, 8426-8433.	7.3	85
100	Controllable Electrical Properties of Metal-Doped In ₂ O ₃ Nanowires for High-Performance Enhancement-Mode Transistors. <i>ACS Nano</i> , 2013, 7, 804-810.	7.3	85
101	Modulating the electronic structures of graphene by controllable hydrogenation. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	82
102	Entanglement of single-photons and chiral phonons in atomically thin WSe ₂ . <i>Nature Physics</i> , 2019, 15, 221-227.	6.5	80
103	Enhanced thermoelectric performance of solution-derived bismuth telluride based nanocomposites via liquid-phase Sintering. <i>Nano Energy</i> , 2016, 30, 630-638.	8.2	78
104	Observation of Selective Plasmon-Exciton Coupling in Nonradiative Energy Transfer: Donor-Selective versus Acceptor-Selective Plexitons. <i>Nano Letters</i> , 2013, 13, 3065-3072.	4.5	77
105	Synthesis and optical properties of VI 1D nanostructures. <i>Nanoscale</i> , 2012, 4, 1422.	2.8	74
106	The Electrical Detection of Lead Ions Using Gold Nanoparticle and DNAzyme Functionalized Graphene Device. <i>Advanced Healthcare Materials</i> , 2013, 2, 271-274.	3.9	73
107	Force-Deflection Spectroscopy: A New Method to Determine the Young's Modulus of Nanofilaments. <i>Nano Letters</i> , 2006, 6, 1904-1909.	4.5	72
108	Fluorophore-Doped Core-Multishell Spherical Plasmonic Nanocavities: Resonant Energy Transfer toward a Loss Compensation. <i>ACS Nano</i> , 2012, 6, 6250-6259.	7.3	71

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109	Excitonic Properties and Near-Infrared Coherent Random Lasing in Vertically Aligned CdSe Nanowires. <i>Advanced Materials</i> , 2011, 23, 1404-1408.	11.1	70
110	Composition-Tunable Vertically Aligned CdS _x Se _{1-x} Nanowire Arrays via van der Waals Epitaxy: Investigation of Optical Properties and Photocatalytic Behavior. <i>Advanced Materials</i> , 2012, 24, 4151-4156.	11.1	69
111	Enhanced Valley Zeeman Splitting in Fe-Doped Monolayer MoS ₂ . <i>ACS Nano</i> , 2020, 14, 4636-4645.	7.3	69
112	Highly Efficient Photothermal Conversion and Water Transport during Solar Evaporation Enabled by Amorphous Hollow Multishelled Nanocomposites. <i>Advanced Materials</i> , 2022, 34, e2107400.	11.1	68
113	Van der Waals integration of high- κ perovskite oxides and two-dimensional semiconductors. <i>Nature Electronics</i> , 2022, 5, 233-240.	13.1	68
114	Excitronics of semiconductor quantum dots and wires for lighting and displays. <i>Laser and Photonics Reviews</i> , 2014, 8, 73-93.	4.4	67
115	Ultralow Threshold Polariton Condensate in a Monolayer Semiconductor Microcavity at Room Temperature. <i>Nano Letters</i> , 2021, 21, 3331-3339.	4.5	66
116	Plasmonic Hot Carriers-Controlled Second Harmonic Generation in WSe ₂ Bilayers. <i>Nano Letters</i> , 2018, 18, 1686-1692.	4.5	64
117	Electric-Field-Dependent Photoconductivity in CdS Nanowires and Nanobelts: Exciton Ionization, Franz-Keldysh, and Stark Effects. <i>Nano Letters</i> , 2012, 12, 2993-2999.	4.5	62
118	Gigantic vortical differential scattering as a monochromatic probe for multiscale chiral structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	62
119	Surface Depletion Induced Quantum Confinement in CdS Nanobelts. <i>ACS Nano</i> , 2012, 6, 5283-5290.	7.3	60
120	Twinning, Polytypism, and Polarity-Induced Morphological Modulation in Nonplanar Nanostructures with van der Waals Epitaxy. <i>Advanced Functional Materials</i> , 2013, 23, 1636-1646.	7.8	59
121	Bottom-up growth of homogeneous Moiré superlattices in bismuth oxychloride spiral nanosheets. <i>Nature Communications</i> , 2019, 10, 4472.	5.8	59
122	A plasmonically enhanced polymer solar cell with gold-silica core-shell nanorods. <i>Organic Electronics</i> , 2013, 14, 2360-2368.	1.4	58
123	Optical switching of topological phase in a perovskite polariton lattice. <i>Science Advances</i> , 2021, 7, .	4.7	58
124	Coherent control of a strongly driven silicon vacancy optical transition in diamond. <i>Nature Communications</i> , 2017, 8, 14451.	5.8	57
125	Bright Exciton Fine-Structure in Two-Dimensional Lead Halide Perovskites. <i>Nano Letters</i> , 2020, 20, 5141-5148.	4.5	57
126	Origin of Photocurrent Losses in Iron Pyrite (FeS ₂) Nanocubes. <i>ACS Nano</i> , 2016, 10, 4431-4440.	7.3	56

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127	In-plane Anisotropic Properties of $1T\text{-MoS}_2$ Layers. <i>Advanced Materials</i> , 2019, 31, e1807764.	11.1	55
128	The origin of sub-bands in the Raman D-band of graphene. <i>Carbon</i> , 2012, 50, 4252-4258.	5.4	54
129	Green Grinding-Coassembly Engineering toward Intrinsically Luminescent Tetracene in Cocrystals. <i>ACS Nano</i> , 2020, 14, 15962-15972.	7.3	54
130	Direct Observation of Magnon-Phonon Strong Coupling in Two-Dimensional Antiferromagnet at High Magnetic Fields. <i>Physical Review Letters</i> , 2021, 127, 097401.	2.9	54
131	Quantum dots on vertically aligned gold nanorod monolayer: plasmon enhanced fluorescence. <i>Nanoscale</i> , 2014, 6, 5592-5598.	2.8	53
132	Heteroepitaxial Decoration of Ag Nanoparticles on Si Nanowires: A Case Study on Raman Scattering and Mapping. <i>Nano Letters</i> , 2010, 10, 3940-3947.	4.5	52
133	Epitaxial VI Tripod Nanocrystals: A Generalization of van der Waals Epitaxy for Nonplanar Polytypic Nanoarchitectures. <i>ACS Nano</i> , 2012, 6, 2281-2288.	7.3	52
134	Size-Dependent Exciton Recombination Dynamics in Single CdS Nanowires beyond the Quantum Confinement Regime. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10716-10722.	1.5	52
135	Inflection Point of the Localized Surface Plasmon Resonance Peak: A General Method to Improve the Sensitivity. <i>ACS Sensors</i> , 2017, 2, 235-242.	4.0	52
136	Ultrafast Modulation of Exciton-Plasmon Coupling in a Monolayer WS_2 -Ag Nanodisk Hybrid System. <i>ACS Photonics</i> , 2019, 6, 2832-2840.	3.2	52
137	Tailoring Optical Properties of Silicon Nanowires by Au Nanostructure Decorations: Enhanced Raman Scattering and Photodetection. <i>Journal of Physical Chemistry C</i> , 2012, 116, 4416-4422.	1.5	51
138	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.	1.6	51
139	Manipulating Charge and Energy Transfer between 2D Atomic Layers via Heterostructure Engineering. <i>Nano Letters</i> , 2020, 20, 5359-5366.	4.5	51
140	Switchable Wettability in SnO_2 Nanowires and SnO_2 @ SnO_2 Heterostructures. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22225-22231.	1.5	49
141	Doubly Enhanced Second Harmonic Generation through Structural and Epsilon-near-Zero Resonances in TiN Nanostructures. <i>ACS Photonics</i> , 2018, 5, 2087-2093.	3.2	49
142	Transparent free-standing metamaterials and their applications in surface-enhanced Raman scattering. <i>Nanoscale</i> , 2014, 6, 132-139.	2.8	48
143	Direct measurement of a non-Hermitian topological invariant in a hybrid light-matter system. <i>Science Advances</i> , 2021, 7, eabj8905.	4.7	48
144	Interfacial charge and energy transfer in van der Waals heterojunctions. <i>Information Materials</i> , 2022, 4, .	8.5	48

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145	Optical Spectroscopy of Single Colloidal CsPbBr ₃ Perovskite Nanoplatelets. Nano Letters, 2020, 20, 3673-3680.	4.5	47
146	All-optical switching based on interacting exciton polaritons in self-assembled perovskite microwires. Science Advances, 2021, 7, eabj6627.	4.7	47
147	Magnetism in phosphorene: Interplay between vacancy and strain. Applied Physics Letters, 2015, 107, .	1.5	46
148	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.	4.0	46
149	Optical initialization of a single spin-valley in charged WSe ₂ quantum dots. Nature Nanotechnology, 2019, 14, 426-431.	15.6	46
150	In-plane Anisotropic Thermal Conductivity of Few-layered Transition Metal Dichalcogenide Td-WTe ₂ . Advanced Materials, 2019, 31, e1804979.	11.1	45
151	Highly Enhanced Exciton Recombination Rate by Strong Electron-Phonon Coupling in Single ZnTe Nanobelt. Nano Letters, 2012, 12, 6420-6427.	4.5	43
152	Cooperative Enhancement of Second-Harmonic Generation from a Single CdS Nanobelt-Hybrid Plasmonic Structure. ACS Nano, 2015, 9, 5018-5026.	7.3	43
153	Abnormal Near-Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization. Advanced Materials, 2018, 30, e1801931.	11.1	43
154	Tailoring Alphabetical Metamaterials in Optical Frequency: Plasmonic Coupling, Dispersion, and Sensing. ACS Nano, 2014, 8, 3796-3806.	7.3	42
155	Resolved-sideband Raman cooling of an optical phonon in semiconductor materials. Nature Photonics, 2016, 10, 600-605.	15.6	42
156	Raman Spectroscopy and Structure of Crystalline Gallium Phosphide Nanowires. Journal of Nanoscience and Nanotechnology, 2003, 3, 335-339.	0.9	41
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