

Qihua Xiong

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.

276
papers

21,281
citations

77
h-index

139
g-index

300
ext. papers

25,095
ext. citations

12.1
avg, IF

7.01
L-index

#	Paper	IF	Citations
276	Highly Efficient Photothermal Conversion and Water Transport during Solar Evaporation Enabled by Amorphous Hollow Multishelled Nanocomposites (Adv. Mater. 7/2022). <i>Advanced Materials</i> , 2022 , 34, 2270052	24	0
275	Nonlinear polariton parametric emission in an atomically thin semiconductor based microcavity.. <i>Nature Nanotechnology</i> , 2022 ,	28.7	4
274	A room-temperature gate-tunable bipolar valley Hall effect in molybdenum disulfide/tungsten diselenide heterostructures. <i>Nature Electronics</i> , 2022 , 5, 23-27	28.4	2
273	Van der Waals integration of high- κ perovskite oxides and two-dimensional semiconductors. <i>Nature Electronics</i> , 2022 , 5, 233-240	28.4	13
272	Recent Developments on Polariton Lasers. <i>Progress in Quantum Electronics</i> , 2022 , 83, 100399	9.1	0
271	Direct measurement of a non-Hermitian topological invariant in a hybrid light-matter system. <i>Science Advances</i> , 2021 , 7, eabj8905	14.3	6
270	All-optical switching based on interacting exciton polaritons in self-assembled perovskite microwires. <i>Science Advances</i> , 2021 , 7, eabj6627	14.3	7
269	Recent Progress on Two-Dimensional Materials. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2021 , 2108017-0	3.8	69
268	Tuning of the Berry curvature in 2D perovskite polaritons. <i>Nature Nanotechnology</i> , 2021 ,	28.7	7
267	Highly Efficient Photothermal Conversion and Water Transport during Solar Evaporation Enabled by Amorphous Hollow Multishelled Nanocomposites. <i>Advanced Materials</i> , 2021 , e2107400	24	16
266	Perovskite polariton parametric oscillator. <i>Advanced Photonics</i> , 2021 , 3,	8.1	2
265	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,	11.5	27
264	Spontaneously coherent orbital coupling of counterrotating exciton polaritons in annular perovskite microcavities. <i>Light: Science and Applications</i> , 2021 , 10, 45	16.7	9
263	Nonlinear Parametric Scattering of Exciton Polaritons in Perovskite Microcavities. <i>Nano Letters</i> , 2021 , 21, 3120-3126	11.5	9
262	Observation of Strong Valley Magnetic Response in Monolayer Transition Metal Dichalcogenide Alloys of MoWSe and MoWSe/WS Heterostructures. <i>ACS Nano</i> , 2021 , 15, 8397-8406	16.7	2
261	Ultralow Threshold Polariton Condensate in a Monolayer Semiconductor Microcavity at Room Temperature. <i>Nano Letters</i> , 2021 , 21, 3331-3339	11.5	19
260	Optical switching of topological phase in a perovskite polariton lattice. <i>Science Advances</i> , 2021 , 7,	14.3	15

259	Light-matter interactions in high quality manganese-doped two-dimensional molybdenum diselenide. <i>Science China Materials</i> , 2021 , 64, 2507-2518	7.1	0
258	Evidence for Moiré Trions in Twisted MoSe Homobilayers. <i>Nano Letters</i> , 2021 , 21, 4461-4468	11.5	5
257	One-step synthesis of single-site vanadium substitution in 1T-WS monolayers for enhanced hydrogen evolution catalysis. <i>Nature Communications</i> , 2021 , 12, 709	17.4	42
256	Strain-Modulated Photoelectric Responses from a Flexible InSe/3R MoS Heterojunction. <i>Nano-Micro Letters</i> , 2021 , 13, 74	19.5	10
255	Perovskite semiconductors for room-temperature exciton-polaritonics. <i>Nature Materials</i> , 2021 , 20, 1315-1324	27.24	33
254	Chiral Phonons and Giant Magneto-Optical Effect in CrBr 2D Magnet. <i>Advanced Materials</i> , 2021 , 33, e2101618	18	5
253	Direct Observation of Magnon-Phonon Strong Coupling in Two-Dimensional Antiferromagnet at High Magnetic Fields. <i>Physical Review Letters</i> , 2021 , 127, 097401	7.4	10
252	Spontaneous Polarity Flipping in a 2D Heterobilayer Induced by Fluctuating Interfacial Carrier Flows. <i>Nano Letters</i> , 2021 , 21, 6773-6780	11.5	1
251	Manipulating atomic defects in plasmonic vanadium dioxide for superior solar and thermal management. <i>Materials Horizons</i> , 2021 , 8, 1700-1710	14.4	4
250	Halide Perovskite Semiconductor Lasers: Materials, Cavity Design, and Low Threshold. <i>Nano Letters</i> , 2021 , 21, 1903-1914	11.5	70
249	Nonlinear optical properties of halide perovskites and their applications. <i>Applied Physics Reviews</i> , 2020 , 7, 041313	17.3	34
248	High yield production of ultrathin fibroid semiconducting nanowire of Ta ₂ Pd ₃ Se ₈ . <i>Nano Research</i> , 2020 , 13, 1627-1635	10	8
247	Bright Exciton Fine-Structure in Two-Dimensional Lead Halide Perovskites. <i>Nano Letters</i> , 2020 , 20, 5141-5148	11.5	32
246	Manipulating Charge and Energy Transfer between 2D Atomic Layers via Heterostructure Engineering. <i>Nano Letters</i> , 2020 , 20, 5359-5366	11.5	23
245	B5N5 monolayer: a room-temperature light element antiferromagnetic insulator. <i>Nanoscale Advances</i> , 2020 , 2, 4421-4426	5.1	2
244	Probing momentum-indirect excitons by near-resonance photoluminescence excitation spectroscopy in WS ₂ monolayer. <i>2D Materials</i> , 2020 , 7, 031002	5.9	9
243	Optical Spectroscopy of Single Colloidal CsPbBr Perovskite Nanoplatelets. <i>Nano Letters</i> , 2020 , 20, 3673-3680	16.80	28
242	Enhanced Valley Zeeman Splitting in Fe-Doped Monolayer MoS. <i>ACS Nano</i> , 2020 , 14, 4636-4645	16.7	32

241	Dynamics of exciton energy renormalization in monolayer transition metal disulfides. <i>Nano Research</i> , 2020 , 13, 1399-1405	10	13
240	Observation of exciton polariton condensation in a perovskite lattice at room temperature. <i>Nature Physics</i> , 2020 , 16, 301-306	16.2	80
239	Nonlayered CdSe Flakes Homojunctions. <i>Advanced Functional Materials</i> , 2020 , 30, 1908902	15.6	18
238	van der Waals Epitaxy of Earth-Abundant Zn3P2 on Graphene for Photovoltaics. <i>Crystal Growth and Design</i> , 2020 , 20, 3816-3825	3.5	16
237	Golden hour for perovskite photonics. <i>Photonics Research</i> , 2020 , 8, PP1	6	7
236	Efficient up-conversion photoluminescence in all-inorganic lead halide perovskite nanocrystals. <i>Nano Research</i> , 2020 , 13, 1962-1969	10	15
235	Air Stable Organic-Inorganic Perovskite Nanocrystals@Polymer Nanofibers and Waveguide Lasing. <i>Small</i> , 2020 , 16, e2004409	11	9
234	Identification of the Electronic and Structural Dynamics of Catalytic Centers in Single-Fe-Atom Material. <i>Chem</i> , 2020 , 6, 3440-3454	16.2	79
233	Transient circular dichroism and exciton spin dynamics in all-inorganic halide perovskites. <i>Nature Communications</i> , 2020 , 11, 5665	17.4	11
232	Room-Temperature Valley Polarization in Atomically Thin Semiconductors Chalcogenide Alloying. <i>ACS Nano</i> , 2020 , 14, 9873-9883	16.7	10
231	Direct and indirect exciton transitions in two-dimensional lead halide perovskite semiconductors.. <i>Journal of Chemical Physics</i> , 2020 , 153, 064705	3.9	3
230	Green Grinding-Coassembly Engineering toward Intrinsically Luminescent Tetracene in Cocrystals. <i>ACS Nano</i> , 2020 , 14, 15962-15972	16.7	22
229	Trion-Mediated Förster Resonance Energy Transfer and Optical Gating Effect in WS/hBN/MoSe Heterojunction. <i>ACS Nano</i> , 2020 , 14, 13470-13477	16.7	12
228	Bose-Einstein condensation of exciton polariton in perovskites semiconductors. <i>Frontiers of Optoelectronics</i> , 2020 , 13, 193-195	2.8	1
227	Chiral plasmonics and enhanced chiral light-matter interactions. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020 , 63, 1	3.6	5
226	Layered Structure Causes Bulk NiFe Layered Double Hydroxide Unstable in Alkaline Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2019 , 31, e1903909	24	142
225	Bottom-up growth of homogeneous Moiré superlattices in bismuth oxychloride spiral nanosheets. <i>Nature Communications</i> , 2019 , 10, 4472	17.4	31
224	Linearly Polarized Luminescence of Atomically Thin MoS Semiconductor Nanocrystals. <i>ACS Nano</i> , 2019 , 13, 13006-13014	16.7	14

223	Ultrafast Modulation of Exciton-Plasmon Coupling in a Monolayer WS ₂ /Ag Nanodisk Hybrid System. <i>ACS Photonics</i> , 2019 , 6, 2832-2840	6.3	29
222	Controllable Growth of Centimeter-Sized 2D Perovskite Heterostructures for Highly Narrow Dual-Band Photodetectors. <i>ACS Nano</i> , 2019 , 13, 5473-5484	16.7	72
221	The Role of Polarity in Nonplanar Semiconductor Nanostructures. <i>Nano Letters</i> , 2019 , 19, 3396-3408	11.5	20
220	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	6.4	20
219	Room temperature nanocavity laser with interlayer excitons in 2D heterostructures. <i>Science Advances</i> , 2019 , 5, eaav4506	14.3	53
218	Optical initialization of a single spin-valley in charged WSe quantum dots. <i>Nature Nanotechnology</i> , 2019 , 14, 426-431	28.7	26
217	In-Plane Anisotropic Properties of 1TPMoS Layers. <i>Advanced Materials</i> , 2019 , 31, e1807764	24	36
216	Adaptive Thermochromic Windows from Active Plasmonic Elastomers. <i>Joule</i> , 2019 , 3, 858-871	27.8	76
215	Solution-processed n-type Bi ₂ Te ₃ /S ₂ Se nanocomposites with enhanced thermoelectric performance via liquid-phase sintering. <i>Science China Materials</i> , 2019 , 62, 389-398	7.1	12
214	Ultrawideband Surface Enhanced Raman Scattering in Hybrid Graphene Fragmented-Gold Substrates via Cold-Etching. <i>Advanced Optical Materials</i> , 2019 , 7, 1900905	8.1	6
213	High-Order Shift Current Induced Terahertz Emission from Inorganic Cesium Bromine Lead Perovskite Engendered by Two-Photon Absorption. <i>Advanced Functional Materials</i> , 2019 , 29, 1904694	15.6	11
212	Two-dimensional materials: new opportunities for electronics, photonics and optoelectronics. <i>Science Bulletin</i> , 2019 , 64, 1031-1032	10.6	4
211	Growth of 2H stacked WSe ₂ bilayers on sapphire. <i>Nanoscale Horizons</i> , 2019 , 4, 1434-1442	10.8	11
210	Manipulating efficient light emission in two-dimensional perovskite crystals by pressure-induced anisotropic deformation. <i>Science Advances</i> , 2019 , 5, eaav9445	14.3	73
209	Single Halide Perovskite/Semiconductor Core/Shell Quantum Dots with Ultrastability and Nonblinking Properties. <i>Advanced Science</i> , 2019 , 6, 1900412	13.6	78
208	Reply to: Can lasers really refrigerate CdS nanobelts?. <i>Nature</i> , 2019 , 570, E62-E64	50.4	2
207	Silicon nitride nanobeam enhanced emission from all-inorganic perovskite nanocrystals. <i>Optics Express</i> , 2019 , 27, 18673-18682	3.3	7
206	In-Plane Anisotropic Thermal Conductivity of Few-Layered Transition Metal Dichalcogenide Td-WTe. <i>Advanced Materials</i> , 2019 , 31, e1804979	24	29

205	Raman Spectroscopy of Isotropic Two-Dimensional Materials Beyond Graphene. <i>Springer Series in Materials Science</i> , 2019 , 29-52	0.9	1
204	Enhanced Second Harmonic Generation from Ferroelectric HfO-Based Hybrid Metasurfaces. <i>ACS Nano</i> , 2019 , 13, 1213-1222	16.7	15
203	Entanglement of single-photons and chiral phonons in atomically thin WSe ₂ . <i>Nature Physics</i> , 2019 , 15, 221-227	16.2	38
202	Microsecond dark-exciton valley polarization memory in two-dimensional heterostructures. <i>Nature Communications</i> , 2018 , 9, 753	17.4	70
201	A general soft-enveloping strategy in the templating synthesis of mesoporous metal nanostructures. <i>Nature Communications</i> , 2018 , 9, 521	17.4	73
200	Plasmonic Hot Carriers-Controlled Second Harmonic Generation in WSe Bilayers. <i>Nano Letters</i> , 2018 , 18, 1686-1692	11.5	44
199	Molecular-Barrier-Enhanced Aromatic Fluorophores in Cocrystals with Unity Quantum Efficiency. <i>Angewandte Chemie</i> , 2018 , 130, 1946-1950	3.6	22
198	Molecular-Barrier-Enhanced Aromatic Fluorophores in Cocrystals with Unity Quantum Efficiency. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1928-1932	16.4	77
197	Surface Plasmon Enhanced Strong Exciton-Photon Coupling in Hybrid Inorganic-Organic Perovskite Nanowires. <i>Nano Letters</i> , 2018 , 18, 3335-3343	11.5	99
196	Highly Efficient Visible Colloidal Lead-Halide Perovskite Nanocrystal Light-Emitting Diodes. <i>Nano Letters</i> , 2018 , 18, 3157-3164	11.5	160
195	High phase-purity 1TPMoS- and 1TPMoSe-layered crystals. <i>Nature Chemistry</i> , 2018 , 10, 638-643	17.6	510
194	Scientific and Technological Assessment of Iron Pyrite for Use in Solar Devices. <i>Energy Technology</i> , 2018 , 6, 8-20	3.5	16
193	Tunable excitonic emission of monolayer WS ₂ for the optical detection of DNA nucleobases. <i>Nano Research</i> , 2018 , 11, 1744-1754	10	14
192	Spin control in reduced-dimensional chiral perovskites. <i>Nature Photonics</i> , 2018 , 12, 528-533	33.9	205
191	Abnormal Near-Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization. <i>Advanced Materials</i> , 2018 , 30, e1801931	24	35
190	Room Temperature Coherently Coupled Exciton-Polaritons in Two-Dimensional Organic-Inorganic Perovskite. <i>ACS Nano</i> , 2018 , 12, 8382-8389	16.7	64
189	Nanoscale interfaces made easily. <i>Nature</i> , 2018 , 553, 32-34	50.4	2
188	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	6.3	12

187	Optical spin pumping induced pseudomagnetic field in two-dimensional heterostructures. <i>Physical Review B</i> , 2018 , 98,	3.3	6
186	Synthesis, structure and nonlinear optical properties of solution-processed Bi ₂ TeO ₅ nanocrystals. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 10435-10440	7.1	3
185	Perovskite light-emitting diodes with external quantum efficiency exceeding 20 per cent. <i>Nature</i> , 2018 , 562, 245-248	50.4	1802
184	Room temperature long-range coherent exciton polariton condensate flow in lead halide perovskites. <i>Science Advances</i> , 2018 , 4, eaau0244	14.3	74
183	Black Phosphorus: Abnormal Near-Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization (Adv. Mater. 43/2018). <i>Advanced Materials</i> , 2018 , 30, 1870325	24	
182	Two-Dimensional and Emission-Tunable: An Unusual Perovskite Constructed from Lindqvist-Type [PbBr] Nanoclusters. <i>Inorganic Chemistry</i> , 2018 , 57, 14035-14038	5.1	19
181	A 3D Haloplumbate Framework Constructed From Unprecedented Lindqvist-like Highly Coordinated [Pb Br] Nanoclusters with Temperature-Dependent Emission. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 3185-3189	4.5	21
180	Color-stable highly luminescent sky-blue perovskite light-emitting diodes. <i>Nature Communications</i> , 2018 , 9, 3541	17.4	370
179	Doubly Enhanced Second Harmonic Generation through Structural and Epsilon-near-Zero Resonances in TiN Nanostructures. <i>ACS Photonics</i> , 2018 , 5, 2087-2093	6.3	29
178	Photonics and Optoelectronics of 2D Metal-Halide Perovskites. <i>Small</i> , 2018 , 14, e1800682	11	128
177	Giant Two-Photon Absorption and Its Saturation in 2D Organic-Inorganic Perovskite. <i>Advanced Optical Materials</i> , 2017 , 5, 1601045	8.1	116
176	Inflection Point of the Localized Surface Plasmon Resonance Peak: A General Method to Improve the Sensitivity. <i>ACS Sensors</i> , 2017 , 2, 235-242	9.2	36
175	Temperature effect of the compact TiO ₂ layer in planar perovskite solar cells: An interfacial electrical, optical and carrier mobility study. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 163, 242-249	6.4	30
174	Thermal conductivity of suspended single crystal CH ₃ NH ₃ PbI ₃ platelets at room temperature. <i>Nanoscale</i> , 2017 , 9, 8281-8287	7.7	15
173	Controllable Fabrication of Two-Dimensional Patterned VO Nanoparticle, Nanodome, and Nanonet Arrays with Tunable Temperature-Dependent Localized Surface Plasmon Resonance. <i>ACS Nano</i> , 2017 , 11, 7542-7551	16.7	107
172	Room-Temperature Polariton Lasing in All-Inorganic Perovskite Nanoplatelets. <i>Nano Letters</i> , 2017 , 17, 3982-3988	11.5	227
171	Coherent control of a strongly driven silicon vacancy optical transition in diamond. <i>Nature Communications</i> , 2017 , 8, 14451	17.4	40
170	Minority Carrier Blocking to Enhance the Thermoelectric Performance of Solution-Processed BiSbTe Nanocomposites via a Liquid-Phase Sintering Process. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 12501-12510	9.5	36

169	Correlated fluorescence blinking in two-dimensional semiconductor heterostructures. <i>Nature</i> , 2017 , 541, 62-67	50.4	124
168	Metal halide perovskite nanomaterials: synthesis and applications. <i>Chemical Science</i> , 2017 , 8, 2522-2536	9.4	179
167	Interfacial Interactions in van der Waals Heterostructures of MoS and Graphene. <i>ACS Nano</i> , 2017 , 11, 11714-11723	16.7	69
166	Optical study on intrinsic exciton states in high-quality CH ₃ NH ₃ PbBr ₃ single crystals. <i>Physical Review B</i> , 2017 , 96,	3.3	26
165	Plasmonic heating from indium nanoparticles on a floating microporous membrane for enhanced solar seawater desalination. <i>Nanoscale</i> , 2017 , 9, 12843-12849	7.7	61
164	Advances in Small Perovskite-Based Lasers. <i>Small Methods</i> , 2017 , 1, 1700163	12.8	199
163	Bright Photon Upconversion on Composite Organic Lanthanide Molecules through Localized Thermal Radiation. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5695-5699	6.4	18
162	Gate-Tunable Resonant Raman Spectroscopy of Bilayer MoS. <i>Small</i> , 2017 , 13, 1701039	11	21
161	Observation of forbidden phonons, Fano resonance and dark excitons by resonance Raman scattering in few-layer WS ₂ . <i>2D Materials</i> , 2017 , 4, 031007	5.9	30
160	Broadband Absorbing Semiconducting Polymer Nanoparticles for Photoacoustic Imaging in Second Near-Infrared Window. <i>Nano Letters</i> , 2017 , 17, 4964-4969	11.5	289
159	Multifunctional 0D/2D Ni ₂ P Nanocrystals/Black Phosphorus Heterostructure. <i>Advanced Energy Materials</i> , 2017 , 7, 1601285	21.8	114
158	Broadband Tunable Hybrid Photonic Crystal-Nanowire Light Emitter. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017 , 23, 1-8	3.8	8
157	Raman spectroscopy of atomically thin two-dimensional magnetic iron phosphorus trisulfide (FePS ₃) crystals. <i>2D Materials</i> , 2016 , 3, 031009	5.9	199
156	Solution-processed highly bright and durable cesium lead halide perovskite light-emitting diodes. <i>Nanoscale</i> , 2016 , 8, 18021-18026	7.7	135
155	Gold nanorings synthesized via a stress-driven collapse and etching mechanism. <i>NPG Asia Materials</i> , 2016 , 8, e323-e323	10.3	15
154	Lattice vibrations and Raman scattering in two-dimensional layered materials beyond graphene. <i>Nano Research</i> , 2016 , 9, 3559-3597	10	71
153	High-Quality Whispering-Gallery-Mode Lasing from Cesium Lead Halide Perovskite Nanoplatelets. <i>Advanced Functional Materials</i> , 2016 , 26, 6238-6245	15.6	406
152	In Situ Spectroscopic Identification of EDO Bridging on Spinel CoO Water Oxidation Electrocatalyst. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4847-4853	6.4	99

151	CdS bulk crystal growth by optical floating zone method: strong photoluminescence upconversion and minimum trapped state emission. <i>Optical Engineering</i> , 2016 , 56, 011109	1.1	5
150	High brightness formamidinium lead bromide perovskite nanocrystal light emitting devices. <i>Scientific Reports</i> , 2016 , 6, 36733	4.9	103
149	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	4.9	27
148	Ultrafast Photogenerated Hole Extraction/Transport Behavior in a CH ₃ NH ₃ PbI ₃ /Carbon Nanocomposite and Its Application in a Metal-Electrode-Free Solar Cell. <i>ChemPhysChem</i> , 2016 , 17, 4102-4109	3.2	18
147	Enhanced thermoelectric performance of solution-derived bismuth telluride based nanocomposites via liquid-phase Sintering. <i>Nano Energy</i> , 2016 , 30, 630-638	17.1	49
146	A large scale perfect absorber and optical switch based on phase change material (Ge ₂ Sb ₂ Te ₅) thin film. <i>Science China Materials</i> , 2016 , 59, 165-172	7.1	18
145	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	10.4	13
144	High-Efficiency Light-Emitting Diodes of Organometal Halide Perovskite Amorphous Nanoparticles. <i>ACS Nano</i> , 2016 , 10, 6623-30	16.7	285
143	Origin of Photocarrier Losses in Iron Pyrite (FeS ₂) Nanocubes. <i>ACS Nano</i> , 2016 , 10, 4431-40	16.7	52
142	Exciton dynamics in luminescent carbon nanodots: Electron-hole exchange interaction. <i>Nano Research</i> , 2016 , 9, 549-559	10	8
141	Laser cooling of organic-inorganic lead halide perovskites. <i>Nature Photonics</i> , 2016 , 10, 115-121	33.9	234
140	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, 1738-43	16.7	273
139	Excitonic Properties of Inorganic-Organic Hybrid Perovskites and Nanophotonic Devices 2016 , 1128-1129		2
138	Phonon-Assisted Anti-Stokes Lasing in ZnTe Nanoribbons. <i>Advanced Materials</i> , 2016 , 28, 276-83	24	25
137	Resolved-sideband Raman cooling of an optical phonon in semiconductor materials. <i>Nature Photonics</i> , 2016 , 10, 600-605	33.9	27
136	Second-harmonic generation in quaternary atomically thin layered AgInP ₂ S ₆ crystals. <i>Applied Physics Letters</i> , 2016 , 109, 123103	3.4	14
135	Whispering gallery mode lasing from hexagonal shaped layered lead iodide crystals. <i>ACS Nano</i> , 2015 , 9, 687-95	16.7	98
134	Direct growth of large-area graphene and boron nitride heterostructures by a co-segregation method. <i>Nature Communications</i> , 2015 , 6, 6519	17.4	173

133	Charge-Induced Second-Harmonic Generation in Bilayer WSe ₂ . <i>Nano Letters</i> , 2015 , 15, 5653-7	11.5	72
132	High-yield synthesis and optical properties of g-C ₃ N ₄ . <i>Nanoscale</i> , 2015 , 7, 12343-50	7.7	208
131	Developing Seedless Growth of ZnO Micro/Nanowire Arrays towards ZnO/FeS ₂ /CuI P-I-N Photodiode Application. <i>Scientific Reports</i> , 2015 , 5, 11377	4.9	29
130	Optical sensor based on hydrogel films with 2D colloidal arrays attached on both the surfaces: anti-curling performance and enhanced optical diffraction intensity. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 3659-3665	7.1	35
129	Influence of gold-silica nanoparticles on the performance of small-molecule bulk heterojunction solar cells. <i>Organic Electronics</i> , 2015 , 22, 20-28	3.5	18
128	Cooperative Enhancement of Second-Harmonic Generation from a Single CdS Nanobelt-Hybrid Plasmonic Structure. <i>ACS Nano</i> , 2015 , 9, 5018-26	16.7	34
127	Large Frequency Change with Thickness in Interlayer Breathing Mode--Significant Interlayer Interactions in Few Layer Black Phosphorus. <i>Nano Letters</i> , 2015 , 15, 3931-8	11.5	85
126	Third-order nonlinearity and passive Q-switching of Cr ³⁺ :YGG garnet crystal. <i>Optics Letters</i> , 2015 , 40, 2421-4	3	6
125	Magnetism in phosphorene: Interplay between vacancy and strain. <i>Applied Physics Letters</i> , 2015 , 107, 072401	3.4	38
124	Purified plasmonic lasing with strong polarization selectivity by reflection. <i>Optics Express</i> , 2015 , 23, 15657-369	3.69	4
123	Strain-induced spatially indirect exciton recombination in zinc-blende/wurtzite CdS heterostructures. <i>Nano Research</i> , 2015 , 8, 3035-3044	10	12
122	A coordination and ligand replacement based three-input colorimetric logic gate sensing platform for melamine, mercury ions, and cysteine. <i>RSC Advances</i> , 2015 , 5, 59106-59113	3.7	12
121	Growth of wafer-scale MoS ₂ monolayer by magnetron sputtering. <i>Nanoscale</i> , 2015 , 7, 2497-503	7.7	182
120	Engineering plasmonic nanorod arrays for colon cancer marker detection. <i>Biosensors and Bioelectronics</i> , 2015 , 63, 472-477	11.8	25
119	Nonlinear optical response of Au nanorods for broadband pulse modulation in bulk visible lasers. <i>Applied Physics Letters</i> , 2015 , 107, 161103	3.4	21
118	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	4.9	46
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