

# Aanlian Pan

## 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.

330 papers	14,251 citations	63 h-index	105 g-index
352 ext. papers	17,075 ext. citations	9.5 avg, IF	6.67 L-index

#	Paper	IF	Citations
330	Efficient modulation of MoS <sub>2</sub> /WSe <sub>2</sub> interlayer excitons via uniaxial strain. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 053107	3.4	4
329	A host-guest self-assembly strategy to enhance electron densities in ultrathin porous carbon nitride nanocages toward highly efficient hydrogen evolution. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 132880	14.7	7
328	Photoluminescence Lightening: Extraordinary Oxygen Modulated Dynamics in WS Monolayers.. <i>Nano Letters</i> , <b>2022</b> ,	11.5	3
327	Infrared photodetector based on 2D monoclinic gold phosphide nanosheets yielded from one-step chemical vapor transport deposition. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 131104	3.4	
326	Strong interfacial coupling in vertical WSe <sub>2</sub> /WS <sub>2</sub> heterostructure for high performance photodetection. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 181108	3.4	0
325	Gallium doping-assisted giant photoluminescence enhancement of monolayer MoS <sub>2</sub> grown by chemical vapor deposition. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 221902	3.4	0
324	Metasurface-enabled on-chip multiplexed diffractive neural networks in the visible. <i>Light: Science and Applications</i> , <b>2022</b> , 11,	16.7	7
323	Electrically switchable valley polarization, spin/valley filter, and valve effects in transition-metal dichalcogenide monolayers interfaced with two-dimensional ferromagnetic semiconductors. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	3
322	Enhancing circular polarization of photoluminescence of two-dimensional Ruddlesden-Popper perovskites by constructing van der Waals heterostructures. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 151101	3.4	1
321	Supersaturation-triggered synthesis of 2D/1D phosphide heterostructures as multi-functional catalysts for water splitting. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 093901	3.4	5
320	Ultrastable low-cost colloidal quantum dot microlasers of operative temperature up to 450 K. <i>Light: Science and Applications</i> , <b>2021</b> , 10, 60	16.7	9
319	High-Throughput One-Photon Excitation Pathway in 0D/3D Heterojunctions for Visible-Light Driven Hydrogen Evolution. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2100816	15.6	40
318	Efficient control of emission and carrier polarity in WS <sub>2</sub> monolayer by indium doping. <i>Science China Materials</i> , <b>2021</b> , 64, 1449-1456	7.1	6
317	An Efficient Deep-Subwavelength Second Harmonic Nanoantenna Based on Surface Plasmon-Coupled Dilute Nitride GaNP Nanowires. <i>Nano Letters</i> , <b>2021</b> , 21, 3426-3434	11.5	2
316	Interlayer exciton formation, relaxation, and transport in TMD van der Waals heterostructures. <i>Light: Science and Applications</i> , <b>2021</b> , 10, 72	16.7	36
315	Transferred van der Waals metal electrodes for sub-1-nm MoS <sub>2</sub> vertical transistors. <i>Nature Electronics</i> , <b>2021</b> , 4, 342-347	28.4	36
314	Recent Progress on Electrical and Optical Manipulations of Perovskite Photodetectors. <i>Advanced Science</i> , <b>2021</b> , 8, e2100569	13.6	37

313	Liquid-Metal-Assisted Growth of Vertical GaSe/MoS p-n Heterojunctions for Sensitive Self-Driven Photodetectors. <i>ACS Nano</i> , <b>2021</b> , 15, 10039-10047	16.7	23
312	One-Photon Excitation Pathway: High-Throughput One-Photon Excitation Pathway in 0D/3D Heterojunctions for Visible-Light Driven Hydrogen Evolution (Adv. Funct. Mater. 18/2021). <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2170125	15.6	
311	Double-Gate MoS Field-Effect Transistors with Full-Range Tunable Threshold Voltage for Multifunctional Logic Circuits. <i>Advanced Materials</i> , <b>2021</b> , 33, e2101036	24	10
310	Spin-Orbit Torque in Van der Waals-Layered Materials and Heterostructures. <i>Advanced Science</i> , <b>2021</b> , 8, e2100847	13.6	5
309	Robust and High Photoluminescence in WS <sub>2</sub> Monolayer through In Situ Defect Engineering. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2105339	15.6	7
308	Bottom-up fabrication of semiconducting 2D coordination nanosheets for versatile bioimaging and photodetecting applications. <i>Materials Advances</i> , <b>2021</b> , 2, 5189-5194	3.3	1
307	Ultrathin and Conformable Lead Halide Perovskite Photodetector Arrays for Potential Application in Retina-Like Vision Sensing. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006006	24	30
306	Moiré Superlattices and related moiré excitons in twisted van der Waals heterostructures. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 6401-6422	58.5	9
305	Strain-Stabilized Metastable Face-Centered Tetragonal Gold Overlayer for Efficient CO Electroreduction. <i>Nano Letters</i> , <b>2021</b> , 21, 1003-1010	11.5	15
304	A novel visible light sensing and recording system enabled by integration of photodetector and electrochromic devices. <i>Nanoscale</i> , <b>2021</b> , 13, 9177-9184	7.7	3
303	Controlled growth of SnSe/MoS <sub>2</sub> vertical p-n heterojunction for optoelectronic applications. <i>Nano Futures</i> , <b>2021</b> , 5, 015002	3.6	4
302	Light-triggered interfacial charge transfer and enhanced photodetection in CdSe/ZnS quantum dots/MoS <sub>2</sub> mixed-dimensional phototransistors. <i>Opto-Electronic Advances</i> , <b>2021</b> , 4, 210017-210017	6.5	5
301	Giant nonlinear optical activity in two-dimensional palladium diselenide. <i>Nature Communications</i> , <b>2021</b> , 12, 1083	17.4	26
300	Revealing the many-body interactions and valley-polarization behavior in Re-doped MoS <sub>2</sub> monolayers. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 113101	3.4	2
299	Recent Advances in Two-Dimensional Heterostructures: From Band Alignment Engineering to Advanced Optoelectronic Applications. <i>Advanced Electronic Materials</i> , <b>2021</b> , 7, 2001174	6.4	12
298	Orbital-Angular-Momentum-Controlled Hybrid Nanowire Circuit. <i>Nano Letters</i> , <b>2021</b> , 21, 6220-6227	11.5	3
297	Polarized photoluminescence spectroscopy in WS <sub>2</sub> , WSe <sub>2</sub> atomic layers and heterostructures by cylindrical vector beams*. <i>Chinese Physics B</i> , <b>2021</b> , 30, 087802	1.2	0
296	Strong Second- and Third-Harmonic Generation in 1D Chiral Hybrid Bismuth Halides. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 16095-16104	16.4	15

295	Acid-induced topological morphology modulation of graphitic carbon nitride homojunctions as advanced metal-free catalysts for OER and pollutant degradation. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 86, 210-218	9.1	6
294	Controlled vapor growth of 2D magnetic Cr <sub>2</sub> Se <sub>3</sub> and its magnetic proximity effect in heterostructures*. <i>Chinese Physics B</i> , <b>2021</b> , 30, 097601	1.2	1
293	Strain-controlled synthesis of ultrathin hexagonal GaTe/MoS heterostructure for sensitive photodetection. <i>IScience</i> , <b>2021</b> , 24, 103031	6.1	0
292	Indirect to direct band gap crossover in two-dimensional WS <sub>2</sub> (1-x)Se <sub>2x</sub> alloys. <i>Npj 2D Materials and Applications</i> , <b>2021</b> , 5,	8.8	12
291	Generalized Synthetic Strategy for Amorphous Transition Metal Oxides-Based 2D Heterojunctions with Superb Photocatalytic Hydrogen and Oxygen Evolution. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009230	15.6	45
290	Strain-activated light-induced halide segregation in mixed-halide perovskite solids. <i>Nature Communications</i> , <b>2020</b> , 11, 6328	17.4	29
289	Carrier Transport Across a CdS <sub>x</sub> Se <sub>1-x</sub> Lateral Heterojunction Visualized by Ultrafast Microscopy. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 11325-11332	3.8	7
288	Twist-angle-dependent interlayer exciton diffusion in WS-WSe heterobilayers. <i>Nature Materials</i> , <b>2020</b> , 19, 617-623	27	85
287	Photocurrent detection of the orbital angular momentum of light. <i>Science</i> , <b>2020</b> , 368, 763-767	33.3	58
286	Ultra-thin tubular graphitic carbon Nitride-Carbon Dot lateral heterostructures: One-Step synthesis and highly efficient catalytic hydrogen generation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 397, 125470	14.7	38
285	Near-Unity Polarization of Valley-Dependent Second-Harmonic Generation in Stacked TMDC Layers and Heterostructures at Room Temperature. <i>Advanced Materials</i> , <b>2020</b> , 32, e1908061	24	17
284	Wavelength-Tunable Mid-Infrared Lasing from Black Phosphorus Nanosheets. <i>Advanced Materials</i> , <b>2020</b> , 32, e1808319	24	34
283	Epitaxial nucleation and lateral growth of high-crystalline black phosphorus films on silicon. <i>Nature Communications</i> , <b>2020</b> , 11, 1330	17.4	56
282	Mechanism of Extreme Optical Nonlinearities in Spiral WS above the Bandgap. <i>Nano Letters</i> , <b>2020</b> , 20, 2667-2673	11.5	14
281	Contact and injection engineering for low SS reconfigurable FETs and high gain complementary inverters. <i>Science Bulletin</i> , <b>2020</b> , 65, 2007-2013	10.6	6
280	Magnetic-brightening and control of dark exciton in CsPbBr <sub>3</sub> perovskite. <i>Science China Materials</i> , <b>2020</b> , 63, 1503-1509	7.1	7
279	Epitaxial synthesis of ultrathin InSe/MoS heterostructures with high visible/near-infrared photoresponse. <i>Nanoscale</i> , <b>2020</b> , 12, 6480-6488	7.7	21
278	Hierarchical Self-assembly of Well-Defined Louver-Like P-Doped Carbon Nitride Nanowire Arrays with Highly Efficient Hydrogen Evolution. <i>Nano-Micro Letters</i> , <b>2020</b> , 12, 52	19.5	24

277	An Electrically Controlled Wavelength-Tunable Nanoribbon Laser. <i>ACS Nano</i> , <b>2020</b> , 14, 3397-3404	16.7	17
276	Cooperative excitonic quantum ensemble in perovskite-assembly superlattice microcavities. <i>Nature Communications</i> , <b>2020</b> , 11, 329	17.4	30
275	Revealing Excitonic and Electron-Hole Plasma States in Stimulated Emission of Single CsPbBr <sub>3</sub> Nanowires at Room Temperature. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	13
274	Wavelength-Tunable Interlayer Exciton Emission at the Near-Infrared Region in van der Waals Semiconductor Heterostructures. <i>Nano Letters</i> , <b>2020</b> , 20, 3361-3368	11.5	17
273	Room temperature exciton-polaritons in high-quality 2D Ruddlesden-Popper perovskites (BA) <sub>2</sub> (MA) <sub>n-1</sub> Pb <sub>n</sub> I <sub>3n+1</sub> (n = 3, 4). <i>Applied Physics Letters</i> , <b>2020</b> , 117, 221107	3.4	2
272	Polarization-Dependent Optical Properties and Optoelectronic Devices of 2D Materials. <i>Research</i> , <b>2020</b> , 2020, 5464258	7.8	9
271	Two ultra-stable novel allotropes of tellurium few-layers. <i>Chinese Physics B</i> , <b>2020</b> , 29, 097103	1.2	2
270	A Noble Metal Dichalcogenide for High-Performance Field-Effect Transistors and Broadband Photodetectors. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1907945	15.6	45
269	Interfacial charge modulation: carbon quantum dot implanted carbon nitride double-deck nanoframes for robust visible-light photocatalytic tetracycline degradation. <i>Nanoscale</i> , <b>2020</b> , 12, 3135-3145	17.5	24
268	Light-triggered two-dimensional lateral homogeneous p-n diodes for opto-electrical interconnection circuits. <i>Science Bulletin</i> , <b>2020</b> , 65, 293-299	10.6	20
267	Large-Scale Growth of Ultrathin Low-Dimensional Perovskite Nanosheets for High-Detectivity Photodetectors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 2884-2891	9.5	16
266	Dual-channel type tunable field-effect transistors based on vertical bilayer WS <sub>2</sub> (1-x)Se <sub>2x</sub> /SnS <sub>2</sub> heterostructures. <i>Information Materials</i> , <b>2020</b> , 2, 752-760	23.1	17
265	Observation and Active Control of a Collective Polariton Mode and Polaritonic Band Gap in Few-Layer WS <sub>2</sub> Strongly Coupled with Plasmonic Lattices. <i>Nano Letters</i> , <b>2020</b> , 20, 790-798	11.5	12
264	CVD growth of perovskite/graphene films for high-performance flexible image sensor. <i>Science Bulletin</i> , <b>2020</b> , 65, 343-349	10.6	39
263	Rubidium Doping to Enhance Carrier Transport in CsPbBr <sub>3</sub> Single Crystals for High-Performance X-Ray Detection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 989-996	9.5	47
262	Effects of the substrate-surface reconstruction and orientation on the spin valley polarization in MoTe <sub>2</sub> /EuO. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	4
261	Generation of helical topological exciton-polaritons. <i>Science</i> , <b>2020</b> , 370, 600-604	33.3	39
260	General Synthesis of Nanoporous 2D Metal Compounds with 3D Bicontinuous Structure. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004055	24	7

259	Record high photoresponse observed in CdS-black phosphorous van der Waals heterojunction photodiode. <i>Science China Materials</i> , <b>2020</b> , 63, 1570-1578	7.1	5
258	Planar Heterojunction Organic Photodetectors Based on Fullerene and Non-fullerene Acceptor Bilayers for a Tunable Spectral Response. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 55064-55071	9.5	7
257	Twist Angle-Dependent Optical Responses in Controllably Grown WS <sub>2</sub> Vertical Homo Junctions. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 9721-9729	9.6	8
256	Seamlessly Splicing Metallic Sn Mo S at MoS Edge for Enhanced Photoelectrocatalytic Performance in Microreactor. <i>Advanced Science</i> , <b>2020</b> , 7, 2002172	13.6	14
255	Enhanced Trion Emission and Carrier Dynamics in Monolayer WS <sub>2</sub> Coupled with Plasmonic Nanocavity. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2001147	8.1	15
254	Broadband emission in all-inorganic metal halide perovskites with intrinsic vacancies. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 13976-13981	7.1	6
253	Triphenylamine Polystyrene Blends for Perovskite Solar Cells with Simultaneous Energy Loss Suppression and Stability Improvement. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000490	7.1	1
252	Room temperature near unity spin polarization in 2D Van der Waals heterostructures. <i>Nature Communications</i> , <b>2020</b> , 11, 4442	17.4	20
251	Growth of CdSe/MoS <sub>2</sub> vertical heterostructures for fast visible-wavelength photodetectors. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 815, 152309	5.7	20
250	High-performance optoelectronic devices based on van der Waals vertical MoS <sub>2</sub> /MoSe <sub>2</sub> heterostructures. <i>Nano Research</i> , <b>2020</b> , 13, 1053-1059	10	33
249	Trap-Mediated Energy Transfer in Er-Doped Cesium Lead Halide Perovskite. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 3320-3326	6.4	2
248	Unconventional p-d Hybridization Interaction in PtGa Ultrathin Nanowires Boosts Oxygen Reduction Electrocatalysis. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 18083-18090	16.4	107
247	Probing and Manipulating Carrier Interlayer Diffusion in van der Waals Multilayer by Constructing Type-I Heterostructure. <i>Nano Letters</i> , <b>2019</b> , 19, 7217-7225	11.5	23
246	Room-temperature high-performance CsPbBr perovskite tetrahedral microlasers. <i>Nanoscale</i> , <b>2019</b> , 11, 2393-2400	7.7	29
245	Controlled Vapor Growth and Nonlinear Optical Applications of Large-Area 3R Phase WS <sub>2</sub> and WSe <sub>2</sub> Atomic Layers. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806874	15.6	59
244	Nanocavity-Enhanced Giant Stimulated Raman Scattering in Si Nanowires in the Visible Light Region. <i>Nano Letters</i> , <b>2019</b> , 19, 1204-1209	11.5	10
243	Trion-Induced Distinct Transient Behavior and Stokes Shift in WS Monolayers. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 3763-3772	6.4	11
242	Ultrahigh-Performance Optoelectronics Demonstrated in Ultrathin Perovskite-Based Vertical Semiconductor Heterostructures. <i>ACS Nano</i> , <b>2019</b> , 13, 7996-8003	16.7	45

241	Phonon-Assisted Electro-Optical Switches and Logic Gates Based on Semiconductor Nanostructures. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901263	24	13
240	Nonvolatile MoTe p-n Diodes for Optoelectronic Logics. <i>ACS Nano</i> , <b>2019</b> , 13, 7216-7222	16.7	29
239	Magneto-spectroscopy of exciton Rydberg states in a CVD grown WSe2 monolayer. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 232104	3.4	11
238	Highly stable lead-free Cs3Bi2I9 perovskite nanoplates for photodetection applications. <i>Nano Research</i> , <b>2019</b> , 12, 1894-1899	10	61
237	Multicolor Semiconductor Lasers. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900071	8.1	18
236	Properties of Excitons and Photogenerated Charge Carriers in Metal Halide Perovskites. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806671	24	85
235	Rational Kinetics Control toward Universal Growth of 2D Vertically Stacked Heterostructures. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901351	24	53
234	Optically manipulated nanomechanics of semiconductor nanowires. <i>Chinese Physics B</i> , <b>2019</b> , 28, 054204	1.2	4
233	Vapor growth of CdS nanowires/WS nanosheet heterostructures with sensitive photodetections. <i>Nanotechnology</i> , <b>2019</b> , 30, 345603	3.4	8
232	Dimensional transformation and morphological control of graphitic carbon nitride from water-based supramolecular assembly for photocatalytic hydrogen evolution: from 3D to 2D and 1D nanostructures. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 254, 321-328	21.8	76
231	Nitrogen treatment generates tunable nanohybridization of Ni5P4 nanosheets with nickel hydr(oxy)oxides for efficient hydrogen production in alkaline, seawater and acidic media. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 251, 181-194	21.8	155
230	Doping-Induced Hydrogen-Bond Engineering in Polymeric Carbon Nitride To Significantly Boost the Photocatalytic H Evolution Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 17341-17349	9.5	46
229	Polar-Induced Selective Epitaxial Growth of Multijunction Nanoribbons for High-Performance Optoelectronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 15813-15820	9.5	5
228	Tin(IV)-Tolerant Vapor-Phase Growth and Photophysical Properties of Aligned Cesium Tin Halide Perovskite (CsSnX3; X = Br, I) Nanowires. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1045-1052	20.1	51
227	Ultra-long distance carrier transportation in bandgap-graded CdSSe nanowire waveguides. <i>Nanoscale</i> , <b>2019</b> , 11, 8494-8501	7.7	10
226	Controlled fabrication, lasing behavior and excitonic recombination dynamics in single crystal CH3NH3PbBr3 perovskite cuboids. <i>Science Bulletin</i> , <b>2019</b> , 64, 698-704	10.6	20
225	Near-infrared photodetection based on erbium chloride borate nanobelts. <i>Applied Physics Express</i> , <b>2019</b> , 12, 035001	2.4	3
224	High-responsivity two-dimensional p-PbI2/n-WS2 vertical heterostructure photodetectors enhanced by photogating effect. <i>Materials Horizons</i> , <b>2019</b> , 6, 1474-1480	14.4	30



223	Low-temperature synthesis of all-inorganic perovskite nanocrystals for UV-photodetectors. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 5488-5496	7.1	16
222	Protonated supramolecular complex-induced porous graphitic carbon nitride nanosheets as bifunctional catalyst for water oxidation and organic pollutant degradation. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 7637-7650	4.3	9
221	Ultrahigh Hole Mobility of Sn-Catalyzed GaSb Nanowires for High Speed Infrared Photodetectors. <i>Nano Letters</i> , <b>2019</b> , 19, 5920-5929	11.5	41
220	Strategy to boost catalytic activity of polymeric carbon nitride: synergistic effect of controllable in situ surface engineering and morphology. <i>Nanoscale</i> , <b>2019</b> , 11, 16393-16405	7.7	33
219	WO-WS Vertical Bilayer Heterostructures with High Photoluminescence Quantum Yield. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 11754-11758	16.4	29
218	Incorporating Large A Cations into Lead Iodide Perovskite Cages: Relaxed Goldschmidt Tolerance Factor and Impact on Exciton-Phonon Interaction. <i>ACS Central Science</i> , <b>2019</b> , 5, 1377-1386	16.8	80
217	Strong interlayer hybridization in the aligned SnS <sub>2</sub> /WSe <sub>2</sub> hetero-bilayer structure. <i>Npj 2D Materials and Applications</i> , <b>2019</b> , 3,	8.8	22
216	Surface functionalized 3D carbon fiber boosts the lithium storage behaviour of transition metal oxide nanowires via strong electronic interaction and tunable adsorption energy. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 1402-1410	10.8	15
215	Steering charge kinetics boost the photocatalytic activity of graphitic carbon nitride: heteroatom-mediated spatial charge separation and transfer. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 53, 015502	3	23
214	High efficiency and fast van der Waals hetero-photodiodes with a unilateral depletion region. <i>Nature Communications</i> , <b>2019</b> , 10, 4663	17.4	127
213	Self-Powered Broad-band Photodetectors Based on Vertically Stacked WSe/BiTe Heterojunctions. <i>ACS Nano</i> , <b>2019</b> , 13, 13573-13580	16.7	89
212	Carrier-Funneling-Induced Efficient Energy Transfer in CdS <sub>x</sub> Se <sub>1-x</sub> Heterostructure Microplates. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 2796-2804	20.1	12
211	Cavity Engineering of Photon-Phonon Interactions in Si Nanocavities. <i>Nano Letters</i> , <b>2019</b> , 19, 7950-7956	11.5	4
210	Enhanced luminescent intensity in a free-standing erbium silicate microplate. <i>Journal of Modern Optics</i> , <b>2019</b> , 66, 1951-1955	1.1	
209	Vapor growth of WSe <sub>2</sub> /WS <sub>2</sub> heterostructures with stacking dependent optical properties. <i>Nano Research</i> , <b>2019</b> , 12, 3123-3128	10	19
208	High-Temperature Upconverted Single-Mode Lasing in 3D Fully Inorganic Perovskite Microcubic Cavity. <i>ACS Photonics</i> , <b>2019</b> , 6, 793-801	6.3	26
207	Van der Waals epitaxial growth of vertically stacked Sb <sub>2</sub> Te <sub>3</sub> /MoS <sub>2</sub> p-n heterojunctions for high performance optoelectronics. <i>Nano Energy</i> , <b>2019</b> , 59, 66-74	17.1	75
206	Direct Vapor Growth of 2D Vertical Heterostructures with Tunable Band Alignments and Interfacial Charge Transfer Behaviors. <i>Advanced Science</i> , <b>2019</b> , 6, 1802204	13.6	57



205	Germanium/perovskite heterostructure for high-performance and broadband photodetector from visible to infrared telecommunication band. <i>Light: Science and Applications</i> , <b>2019</b> , 8, 106	16.7	100
204	Flexible Photodetector Arrays Based on Patterned CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Film for Real-Time Photosensing and Imaging. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805913	24	110
203	Focus on 2D material nanophotonics. <i>Nanotechnology</i> , <b>2019</b> , 30, 030201	3.4	2
202	How lasing happens in CsPbBr <sub>3</sub> perovskite nanowires. <i>Nature Communications</i> , <b>2019</b> , 10, 265	17.4	118
201	Controlled Synthesis and Photonics Applications of Metal Halide Perovskite Nanowires. <i>Small Methods</i> , <b>2019</b> , 3, 1800294	12.8	30
200	Self-assembled hierarchical carbon/g-C <sub>3</sub> N <sub>4</sub> composite with high photocatalytic activity. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 135501	3	9
199	Non-fullerene acceptors for large-open-circuit-voltage and high-efficiency organic solar cells. <i>Materials Today Nano</i> , <b>2018</b> , 1, 47-59	9.7	7
198	Strain-Tuning Atomic Substitution in Two-Dimensional Atomic Crystals. <i>ACS Nano</i> , <b>2018</b> , 12, 4853-4860	16.7	64
197	Wavelength Selective Photodetectors Integrated on a Single Composition-Graded Semiconductor Nanowire. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800293	8.1	15
196	Facile in situ synthesis of wurtzite ZnS/ZnO core/shell heterostructure with highly efficient visible-light photocatalytic activity and photostability. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 075503		28
195	Visualizing Carrier Transport in Metal Halide Perovskite Nanoplates via Electric Field Modulated Photoluminescence Imaging. <i>Nano Letters</i> , <b>2018</b> , 18, 3024-3031	11.5	29
194	Understanding the Different Exciton-Plasmon Coupling Regimes in Two-Dimensional Semiconductors Coupled with Plasmonic Lattices: A Combined Experimental and Unified Equation of Motion Approach. <i>ACS Photonics</i> , <b>2018</b> , 5, 192-204	6.3	20
193	Ultrahigh Quality Upconverted Single-Mode Lasing in Cesium Lead Bromide Spherical Microcavity. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800391	8.1	31
192	Continuous-wave lasing in halide perovskites. <i>Science China Materials</i> , <b>2018</b> , 61, 1243-1244	7.1	4
191	Light Emission Properties of 2D Transition Metal Dichalcogenides: Fundamentals and Applications. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800420	8.1	53
190	Band Alignment Engineering in Two-Dimensional Lateral Heterostructures. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 11193-11197	16.4	85
189	High-Quality In-Plane Aligned CsPbX <sub>3</sub> Perovskite Nanowire Lasers with Composition-Dependent Strong Exciton-Photon Coupling. <i>ACS Nano</i> , <b>2018</b> , 12, 6170-6178	16.7	147
188	Mesoporous g-C <sub>3</sub> N <sub>4</sub> Nanosheets: Synthesis, Superior Adsorption Capacity and Photocatalytic Activity. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2018</b> , 18, 5502-5510	1.3	13

187	Measuring the local mobility of graphene on semiconductors. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	1
186	Single-mode lasing and 3D confinement from perovskite micro-cubic cavity. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 11740-11748	7.1	30
185	Theory-Driven Heterojunction Photocatalyst Design with Continuously Adjustable Band Gap Materials. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 28065-28074	3.8	17
184	Space-Confined Synthesis of 2D All-Inorganic CsPbI <sub>3</sub> Perovskite Nanosheets for Multiphoton-Pumped Lasing. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800879	8.1	46
183	Multicolor Heterostructures of Two-Dimensional Layered Halide Perovskites that Show Interlayer Energy Transfer. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 15675-15683	16.4	65
182	Composition modulation in one-dimensional and two-dimensional chalcogenide semiconductor nanostructures. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 7504-7521	58.5	72
181	Temperature Difference Triggering Controlled Growth of All-Inorganic Perovskite Nanowire Arrays in Air. <i>Small</i> , <b>2018</b> , 14, e1803010	11	21
180	Active optical antennas driven by inelastic electron tunneling. <i>Nanophotonics</i> , <b>2018</b> , 7, 1503-1516	6.3	8
179	Controllable Growth and Formation Mechanisms of Dislocated WS Spirals. <i>Nano Letters</i> , <b>2018</b> , 18, 3885-3892	38.9	62
178	Facile in situ construction of mediator-free direct Z-scheme g-C <sub>3</sub> N <sub>4</sub> /CeO <sub>2</sub> heterojunctions with highly efficient photocatalytic activity. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 275302	3	80
177	Tin Nanoparticles-Enhanced Optical Transportation in Branched CdS Nanowire Waveguides. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800305	8.1	12
176	Controllable Vapor Growth of Large-Area Aligned CdS Se Nanowires for Visible Range Integratable Photodetectors. <i>Nano-Micro Letters</i> , <b>2018</b> , 10, 58	19.5	16
175	Spatially composition-modulated two-dimensional WSSe nanosheets. <i>Nanoscale</i> , <b>2017</b> , 9, 4707-4712	7.7	32
174	Near Full-Composition-Range High-Quality GaAsSb Nanowires Grown by Molecular-Beam Epitaxy. <i>Nano Letters</i> , <b>2017</b> , 17, 622-630	11.5	57
173	Broken Symmetry Induced Strong Nonlinear Optical Effects in Spiral WS Nanosheets. <i>ACS Nano</i> , <b>2017</b> , 11, 4892-4898	16.7	79
172	Nonlinear photoluminescence in monolayer WS: parabolic emission and excitation fluence-dependent recombination dynamics. <i>Nanoscale</i> , <b>2017</b> , 9, 7235-7241	7.7	30
171	Cesium lead halide perovskite triangular nanorods as high-gain medium and effective cavities for multiphoton-pumped lasing. <i>Nano Research</i> , <b>2017</b> , 10, 3385-3395	10	89
170	Two-Dimensional MoS <sub>2</sub> -Graphene-Based Multilayer van der Waals Heterostructures: Enhanced Charge Transfer and Optical Absorption, and Electric-Field Tunable Dirac Point and Band Gap. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 5504-5512	9.6	99

169	Crystal structure and electron transition underlying photoluminescence of methylammonium lead bromide perovskites. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 7739-7745	7.1	45
168	Perovskite-Erbium Silicate Nanosheet Hybrid Waveguide Photodetectors at the Near-Infrared Telecommunication Band. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604431	24	99
167	Two-Dimensional CHNH <sub>2</sub> PbI Perovskite Nanosheets for Ultrafast Pulsed Fiber Lasers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 12759-12765	9.5	231
166	Vapor Growth and Tunable Lasing of Band Gap Engineered Cesium Lead Halide Perovskite Micro/Nanorods with Triangular Cross Section. <i>ACS Nano</i> , <b>2017</b> , 11, 1189-1195	16.7	199
165	Vapor growth and interfacial carrier dynamics of high-quality CdS-CdSSe-CdS axial nanowire heterostructures. <i>Nano Energy</i> , <b>2017</b> , 32, 28-35	17.1	53
164	Silicon-erbium ytterbium silicate nanowire waveguides with optimized optical gain. <i>Frontiers of Physics</i> , <b>2017</b> , 12, 1	3.7	4
163	Composition-Modulated Two-Dimensional Semiconductor Lateral Heterostructures via Layer-Selected Atomic Substitution. <i>ACS Nano</i> , <b>2017</b> , 11, 961-967	16.7	86
162	High-Performance Flexible Photodetectors based on High-Quality Perovskite Thin Films by a Vapor-Solution Method. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703256	24	96
161	Single-Mode Lasers Based on Cesium Lead Halide Perovskite Submicron Spheres. <i>ACS Nano</i> , <b>2017</b> , 11, 10681-10688	16.7	168
160	Directional Growth of Ultralong CsPbBr <sub>3</sub> Perovskite Nanowires for High-Performance Photodetectors. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 15592-15595	16.4	195
159	Second-harmonic generation in single CdSe nanowires by focused cylindrical vector beams. <i>Optics Letters</i> , <b>2017</b> , 42, 2623-2626	3	8
158	Direct Vapor Growth of Perovskite CsPbBr <sub>3</sub> Nanoplate Electroluminescence Devices. <i>ACS Nano</i> , <b>2017</b> , 11, 9869-9876	16.7	96
157	Single-Crystal Thin Films of Cesium Lead Bromide Perovskite Epitaxially Grown on Metal Oxide Perovskite (SrTiO <sub>3</sub> ). <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 13525-13532	16.4	147
156	Solvent-induced crystallization for hybrid perovskite thin-film photodetector with high-performance and low working voltage. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 375101	3	23
155	Van der Waals epitaxial growth and optoelectronics of large-scale WSe <sub>2</sub> /SnS vertical bilayer p-n junctions. <i>Nature Communications</i> , <b>2017</b> , 8, 1906	17.4	258
154	High on/off ratio photosensitive field effect transistors based on few layer SnS <sub>2</sub> . <i>Nanotechnology</i> , <b>2016</b> , 27, 34LT01	3.4	22
153	On-Nanowire Axial Heterojunction Design for High-Performance Photodetectors. <i>ACS Nano</i> , <b>2016</b> , 10, 8474-81	16.7	73
152	Wang et al. Reply. <i>Physical Review Letters</i> , <b>2016</b> , 117, 219702	7.4	1

151	Low threshold, single-mode laser based on individual CdS nanoribbons in dielectric DBR microcavity. <i>Nano Energy</i> , <b>2016</b> , 30, 481-487	17.1	34
150	Facile route to fabricate carbon-doped TiO <sub>2</sub> nanoparticles and its mechanism of enhanced visible light photocatalytic activity. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	12
149	Up-conversion luminescence and optical temperature-sensing properties of Er <sup>3+</sup> -doped perovskite Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> nanocrystals. <i>Journal of Physics and Chemistry of Solids</i> , <b>2016</b> , 98, 28-31	3.9	35
148	Single-Crystalline InGaAs Nanowires for Room-Temperature High-Performance Near-Infrared Photodetectors. <i>Nano-Micro Letters</i> , <b>2016</b> , 8, 29-35	19.5	71
147	Synthesis of WS <sub>2</sub> xSe <sub>2-2x</sub> Alloy Nanosheets with Composition-Tunable Electronic Properties. <i>Nano Letters</i> , <b>2016</b> , 16, 264-9	11.5	218
146	Lateral composition-graded semiconductor nanoribbons for multi-color nanolasers. <i>Nano Research</i> , <b>2016</b> , 9, 933-941	10	24
145	Origin of enhanced photocatalytic activity of F-doped CeO <sub>2</sub> nanocubes. <i>Applied Surface Science</i> , <b>2016</b> , 370, 427-432	6.7	32
144	Nanolaser arrays based on individual waved CdS nanoribbons. <i>Laser and Photonics Reviews</i> , <b>2016</b> , 10, 458-464	8.3	42
143	Facile one-step in-situ synthesis of type-II CeO <sub>2</sub> /CeF <sub>3</sub> composite with tunable morphology and photocatalytic activity. <i>Ceramics International</i> , <b>2016</b> , 42, 16374-16381	5.1	11
142	Synthesis and optoelectronic properties of quaternary GaInAsSb alloy nanosheets. <i>Nanotechnology</i> , <b>2016</b> , 27, 505602	3.4	6
141	Visible Light-Assisted High-Performance Mid-Infrared Photodetectors Based on Single InAs Nanowire. <i>Nano Letters</i> , <b>2016</b> , 16, 6416-6424	11.5	90
140	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> , <b>2016</b> , 10, 835-842	8.3	14
139	Second harmonic generation and waveguide properties in perovskite Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> nanowires. <i>Optics Letters</i> , <b>2016</b> , 41, 3803-5	3	5
138	Er <sup>3+</sup> -doped Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ferroelectric thin films with enhanced electrical properties and strong green up-conversion luminescence. <i>Applied Physics A: Materials Science and Processing</i> , <b>2015</b> , 119, 937-940	2.6	9
137	Few-layer WO <sub>3</sub> nanosheets for high-performance UV-photodetectors. <i>Materials Letters</i> , <b>2015</b> , 148, 184-187	3.9	35
136	An air-stable microwire radial heterojunction with high photoconductivity based on a new building block. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 5933-5939	7.1	12
135	High Gain Submicrometer Optical Amplifier at Near-Infrared Communication Band. <i>Physical Review Letters</i> , <b>2015</b> , 115, 027403	7.4	38
134	Optical waveguide beam splitters based on hybrid metal-dielectric-semiconductor nanostructures. <i>Optics Communications</i> , <b>2015</b> , 354, 168-173	2	1

133	Lateral Growth of Composition Graded Atomic Layer MoS(2(1-x))Se(2x) Nanosheets. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 5284-7	16.4	155
132	Two-dimensional transition metal dichalcogenides as atomically thin semiconductors: opportunities and challenges. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 8859-76	58.5	719
131	Two-step excitation structure changes of luminescence centers and strong tunable blue emission on surface of silica nanospheres. <i>Journal of Nanoparticle Research</i> , <b>2015</b> , 17, 1	2.3	1
130	Down-conversion luminescence and its temperature-sensing properties from Er <sup>3+</sup> -doped sodium bismuth titanate ferroelectric thin films. <i>Applied Physics A: Materials Science and Processing</i> , <b>2015</b> , 121, 773-777	2.6	9
129	Au Nanoarrays: Surface Plasmon-Enhanced Photodetection in Few Layer MoS <sub>2</sub> Phototransistors with Au Nanostructure Arrays (Small 20/2015). <i>Small</i> , <b>2015</b> , 11, 2346-2346	11	3
128	Enhancing Light Emission of ZnO-Nanofilm/Si-Micropillar Heterostructure Arrays by Piezo-Phototronic Effect. <i>Advanced Materials</i> , <b>2015</b> , 27, 4447-4453	24	65
127	Photoluminescence and surface photovoltage properties of ZnSe nanoribbons. <i>Science Bulletin</i> , <b>2015</b> , 60, 1674-1679	10.6	13
126	Bandgap-engineered GaAsSb alloy nanowires for near-infrared photodetection at 1.31 $\mu$ m. <i>Semiconductor Science and Technology</i> , <b>2015</b> , 30, 105033	1.8	40
125	Insights into Enhanced Visible-Light Photocatalytic Hydrogen Evolution of g-C <sub>3</sub> N <sub>4</sub> and Highly Reduced Graphene Oxide Composite: The Role of Oxygen. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 1612-1621	9.6	219
124	Surface Plasmon-Enhanced Photodetection in Few Layer MoS <sub>2</sub> Phototransistors with Au Nanostructure Arrays. <i>Small</i> , <b>2015</b> , 11, 2392-8	11	292
123	Novel 3D flower-like Ag <sub>3</sub> PO <sub>4</sub> microspheres with highly enhanced visible light photocatalytic activity. <i>Materials Letters</i> , <b>2014</b> , 116, 209-211	3.3	43
122	Novel Ag <sub>3</sub> PO <sub>4</sub> /CeO <sub>2</sub> composite with high efficiency and stability for photocatalytic applications. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 1750-1756	13	226
121	Lateral epitaxial growth of two-dimensional layered semiconductor heterojunctions. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 1024-30	28.7	858
120	Room-temperature near-infrared photodetectors based on single heterojunction nanowires. <i>Nano Letters</i> , <b>2014</b> , 14, 694-8	11.5	118
119	Semiconductor alloy nanoribbon lateral heterostructures for high-performance photodetectors. <i>Advanced Materials</i> , <b>2014</b> , 26, 2844-9	24	65
118	Growth of alloy MoS(2x)Se <sub>2</sub> (1-x) nanosheets with fully tunable chemical compositions and optical properties. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 3756-9	16.4	362
117	Gradient index plasmonic ring resonator with high extinction ratio. <i>Optics Communications</i> , <b>2014</b> , 312, 280-283	2	7
116	Optical sensor based on a single CdS nanobelt. <i>Sensors</i> , <b>2014</b> , 14, 7332-41	3.8	10

115	Visible light stimulating dual-wavelength emission and O vacancy involved energy transfer behavior in luminescence for coaxial nanocable arrays. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 224308	2.5	3
114	Band-selective infrared photodetectors with complete-composition-range InAs(x)P(1-x) alloy nanowires. <i>Advanced Materials</i> , <b>2014</b> , 26, 7444-9	24	64
113	Synthesis and Diameter-dependent Thermal Conductivity of InAs Nanowires. <i>Nano-Micro Letters</i> , <b>2014</b> , 6, 301-306	19.5	20
112	The study on crystal defects-involved energy transfer process of Eu <sup>3+</sup> doped ZnO lattice. <i>Materials Letters</i> , <b>2014</b> , 129, 65-67	3.3	20
111	Microphotoluminescence of individual ZnSe nanoribbons. <i>Materials Letters</i> , <b>2014</b> , 129, 118-121	3.3	15
110	Dilute tin-doped CdS nanowires for low-loss optical waveguiding. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 4391	7.1	6
109	Surface plasmon resonance enhanced band-edge emission of CdS@SiO <sub>2</sub> core-shell nanowires with gold nanoparticles attached. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 566-571	7.1	20
108	Bandgap broadly tunable GaZnSeAs alloy nanowires. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 2912-2966	11	11
107	Large photoluminescence redshift of ZnTe nanostructures: The effect of twin structures. <i>Chemical Physics Letters</i> , <b>2013</b> , 576, 26-30	2.5	8
106	Ag <sub>3</sub> PO <sub>4</sub> Semiconductor Photocatalyst: Possibilities and Challenges. <i>Journal of Nanomaterials</i> , <b>2013</b> , 2013, 1-8	3.2	24
105	Template-free synthesis and photocatalytic activity of CdS nanorings. <i>Materials Letters</i> , <b>2013</b> , 100, 141-144	14.4	13
104	Low-threshold nanowire laser based on composition-symmetric semiconductor nanowires. <i>Nano Letters</i> , <b>2013</b> , 13, 1251-6	11.5	62
103	Luminescence and local photonic confinement of single ZnSe:Mn nanostructure and the shape dependent lasing behavior. <i>Nanotechnology</i> , <b>2013</b> , 24, 055201	3.4	21
102	Complete composition tunability of Cd <sub>1-x</sub> Zn <sub>x</sub> Te alloy nanostructures along a single substrate. <i>Materials Letters</i> , <b>2013</b> , 105, 90-94	3.3	7
101	Fabrication and optical waveguide of Sn-catalyzed CdSe microstructures. <i>Solid State Communications</i> , <b>2013</b> , 167, 31-35	1.6	3
100	Modulated exciton-plasmon interactions in Au-SiO <sub>2</sub> -CdTe composite nanoparticles. <i>Optics Express</i> , <b>2013</b> , 21, 11095-100	3.3	13
99	Plasmonic amplification with ultra-high optical gain at room temperature. <i>Scientific Reports</i> , <b>2013</b> , 3, 1967	4.9	50
98	Synthesis and optical properties of InP quantum dot/nanowire heterostructures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2013</b> , 210, 1898-1902	1.6	8



97	Study on Charge Carriers Behavior at CdS/TiO <sub>2</sub> Interface of One Dimensional TiO <sub>2</sub> @CdS Core-shell Structure by Raman Scattering and Surface Photovoltage Spectroscopy. <i>Acta Chimica Sinica</i> , <b>2013</b> , 71, 634	3.3	3
96	Modulational instability and gap solitons in periodic ferromagnetic films. <i>European Physical Journal B</i> , <b>2012</b> , 85, 1	1.2	7
95	Composition and bandgap-graded semiconductor alloy nanowires. <i>Advanced Materials</i> , <b>2012</b> , 24, 13-33	24	99
94	Enhanced visible-light photoactivity of La-doped ZnS thin films. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 108, 895-900	2.6	29
93	Room-temperature dual-wavelength lasing from single-nanoribbon lateral heterostructures. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 12394-7	16.4	96
92	Wavelength-converted/selective waveguiding based on composition-graded semiconductor nanowires. <i>Nano Letters</i> , <b>2012</b> , 12, 5003-7	11.5	76
91	Synthesis and optical characterizations of chain-like Si@SiSe <sub>2</sub> nanowire heterostructures. <i>Nanoscale</i> , <b>2012</b> , 4, 1481-5	7.7	4
90	Orientation-controlled synthesis and magnetism of single crystalline Co nanowires. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2012</b> , 324, 4043-4047	2.8	8
89	Heteroepitaxial growth of GaSb nanotrees with an ultra-low reflectivity in a broad spectral range. <i>Nano Letters</i> , <b>2012</b> , 12, 1799-805	11.5	36
88	Effects of contact shape on ballistic phonon transport in semiconductor nanowires. <i>Current Applied Physics</i> , <b>2012</b> , 12, 437-442	2.6	
87	Asymmetric light propagation in composition-graded semiconductor nanowires. <i>Scientific Reports</i> , <b>2012</b> , 2, 820	4.9	54
86	Visible whispering-gallery modes in ZnO microwires with varied cross sections. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 033101	2.5	16
85	Spatial bandgap engineering along single alloy nanowires. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 2037-9	16.4	91
84	Color-tunable periodic spatial emission of alloyed CdS <sub>1-x</sub> Se <sub>x</sub> /Sn: CdS <sub>1-x</sub> Se <sub>x</sub> superlattice microwires. <i>Optical Materials Express</i> , <b>2011</b> , 1, 1185	2.6	5
83	Single-crystal erbium chloride silicate nanowires as a Si-compatible light emission material in communication wavelength. <i>Optical Materials Express</i> , <b>2011</b> , 1, 1202	2.6	24
82	Semiconductor Alloy Nanowires and Nanobelts With Tunable Optical Properties. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2011</b> , 17, 808-818	3.8	6
81	Effect of Gaussian acoustic nanocavities in a narrow constriction on ballistic phonon transmission. <i>Applied Physics A: Materials Science and Processing</i> , <b>2011</b> , 104, 635-642	2.6	1
80	Trapping of surface plasmon polaritons in a multiple-teeth-shaped waveguide at visible wavelengths. <i>Applied Physics B: Lasers and Optics</i> , <b>2011</b> , 103, 883-887	1.9	7

79	Trapping of surface-plasmon polaritons in a subwavelength cut. <i>Optics Communications</i> , <b>2011</b> , 284, 153-155	5
78	Ferromagnetic and metallic properties of the semihydrogenated GaN sheet. <i>Physica Status Solidi (B): Basic Research</i> , <b>2011</b> , 248, 1442-1445	1.3 23
77	Atomic layer deposition assisted template approach for electrochemical synthesis of Au crescent-shaped half-nanotubes. <i>ACS Nano</i> , <b>2011</b> , 5, 788-94	16.7 30
76	Single-Crystalline Cu <sub>4</sub> Bi <sub>4</sub> S <sub>9</sub> Nanoribbons: Facile Synthesis, Growth Mechanism, and Surface Photovoltaic Properties. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 1299-1305	9.6 52
75	On-nanowire spatial band gap design for white light emission. <i>Nano Letters</i> , <b>2011</b> , 11, 5085-9	11.5 72
74	Structure and Photoluminescence of Pure and Indium-Doped ZnTe Microstructures. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 1415-1421	3.8 29
73	Optical transmission through metal/dielectric multilayer films perforated with periodic subwavelength slits. <i>Optics Communications</i> , <b>2011</b> , 284, 471-475	2 15
72	Ballistic phonon transport through a Fibonacci array of acoustic nanocavities in a narrow constriction. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2011</b> , 375, 2000-2006	2.3 1
71	Ballistic phonon transmission in quasiperiodic acoustic nanocavities. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 084310	2.5 3
70	Trap-state whispering-gallery mode lasing from high-quality tin-doped CdS whiskers. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 263101	3.4 22
69	Phase diagram of magnetic multilayers with tilted dual spin torques. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 033905	2.5 16
68	BALLISTIC PHONON TRANSPORT THROUGH GAUSSIAN ACOUSTIC NANOCAVITIES. <i>Modern Physics Letters B</i> , <b>2011</b> , 25, 1631-1642	1.6 3
67	Color-changeable properties of plasmonic waveguides based on Se-doped CdS nanoribbons. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3 16
66	Mechanically and electronically controlled molecular switch behavior in a compound molecular device. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 103506	3.4 13
65	Simple Synthesis and Growth Mechanism of Core/Shell CdSe/SiO <sub>x</sub> Nanowires. <i>Journal of Nanomaterials</i> , <b>2010</b> , 2010, 1-6	3.2 4
64	Hierarchical SnO <sub>2</sub> Nanostructures: Linear Assembly of Nanorods on the Nanowire Backbones. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 1844-1848	3.8 31
63	Spatial composition grading of quaternary ZnCdSSe alloy nanowires with tunable light emission between 350 and 710 nm on a single substrate. <i>ACS Nano</i> , <b>2010</b> , 4, 671-80	16.7 116
62	Current-driven magnetization dynamics in magnetic trilayers with a tilted spin polarizer. <i>European Physical Journal B</i> , <b>2010</b> , 73, 417-421	1.2 26

61	Formation and optical properties of ZnO:ZnFe <sub>2</sub> O <sub>4</sub> superlattice microwires. <i>Nano Research</i> , <b>2010</b> , 3, 326-338	3.2	32
60	TiO <sub>2</sub> nanowires sensitized with CdS quantum dots and the surface photovoltage properties. <i>Materials Letters</i> , <b>2010</b> , 64, 1688-1690	3.3	21
59	Facile preparation of TiO <sub>2</sub> nanostructures by direct annealing of the Ti foil. <i>Materials Letters</i> , <b>2010</b> , 64, 2392-2394	3.3	5
58	Negative differential resistance in polymer molecular devices modulated with molecular length. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2010</b> , 374, 3857-3862	2.3	15
57	Tilted spin torque-driven ferromagnetic resonance in a perpendicular-analyzer magnetic trilayer. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2010</b> , 322, 2264-2267	2.8	11
56	Magnetic properties in nitrogen-doped CeO <sub>2</sub> from first-principles calculations. <i>Physica B: Condensed Matter</i> , <b>2010</b> , 405, 4858-4862	2.8	7
55	Electronic structure and magnetic properties in Nitrogen-doped from density functional calculations. <i>Solid State Communications</i> , <b>2010</b> , 150, 852-856	1.6	10
54	Ab initio studies of half-metallic ferromagnetism in carbon-doped. <i>Solid State Communications</i> , <b>2010</b> , 150, 923-927	1.6	13
53	Preparation and elastic properties of helical nanotubes obtained by atomic layer deposition with carbon nanocoils as templates. <i>Small</i> , <b>2010</b> , 6, 910-4	11	51
52	Spatially composition-graded alloy semiconductor nanowires and wavelength specific lateral-multijunction full-spectrum solar cells <b>2009</b> ,		8
51	Broadband coherent emission observed in polycrystalline CdSSe nanowires under high excitation. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 375302	1.8	3
50	Ordered CdS micro/nanostructures on CdSe nanostructures. <i>Nanotechnology</i> , <b>2009</b> , 20, 125601	3.4	12
49	Optical waveguide behavior of Se-doped and undoped CdS one-dimensional nanostructures using near-field optical microscopy <b>2009</b> , 52, 26-30		
48	Quaternary alloy semiconductor nanobelts with bandgap spanning the entire visible spectrum. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 9502-3	16.4	70
47	Continuous alloy-composition spatial grading and superbroad wavelength-tunable nanowire lasers on a single chip. <i>Nano Letters</i> , <b>2009</b> , 9, 784-8	11.5	180
46	Structural stability and Raman scattering of ZnSe nanoribbons under high pressure. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 480, 798-801	5.7	25
45	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> , <b>2009</b> , 9, 978-81	1.3	2
44	Rayleigh-instability-induced metal nanoparticle chains encapsulated in nanotubes produced by atomic layer deposition. <i>Nano Letters</i> , <b>2008</b> , 8, 114-8	11.5	106

43	Controllable Fabrication of High-Quality 6-Fold Symmetry-Branched CdS Nanostructures with ZnS Nanowires as Templates. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 9253-9260	3.8	45
42	Si-CdSSe core/shell nanowires with continuously tunable light emission. <i>Nano Letters</i> , <b>2008</b> , 8, 3413-7	11.5	55
41	One-step synthesis of low-dimensional CdSe nanostructures and optical waveguide of CdSe nanowires. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 135301	3	18
40	Observation of delayed fluorescence in CdS <sub>x</sub> Se <sub>1-x</sub> nanobelts by femtosecond time-resolved fluorescence spectroscopy. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 032102	3.4	15
39	Theory of ferromagnetic resonance in magnetic trilayers with a tilted spin polarizer. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	28
38	Growth of Oriented Zinc Oxide Nanowire Array into Novel Hierarchical Structures in Aqueous Solutions. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 17546-17553	3.8	29
37	Synthesis of Tower-like ZnO Structures and Visible Photoluminescence Origins of Varied-Shaped ZnO Nanostructures. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 7655-7660	3.8	59
36	Fabrication and Red-Color Lasing of Individual Highly Uniform Single-Crystal CdSe Nanobelts. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 14253-14256	3.8	32
35	Color-changeable optical transport through Se-doped CdS 1D nanostructures. <i>Nano Letters</i> , <b>2007</b> , 7, 2970-5	11.5	63
34	Stimulated emission from trapped excitons in SnO <sub>2</sub> nanowires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2007</b> , 39, 223-229	3	28
33	The optical properties of ZnO sheets electrodeposited on ITO glass. <i>Materials Letters</i> , <b>2007</b> , 61, 2000-2003	3.3	49
32	A simple and cheap way to produce porous ZnO ribbons and their photovoltaic response. <i>Materials Letters</i> , <b>2007</b> , 61, 4459-4462	3.3	14
31	Structure and stimulated emission of ZnSe nanoribbons grown by thermal evaporation. <i>Nanotechnology</i> , <b>2007</b> , 18, 305705	3.4	26
30	Photoluminescence and electroluminescence properties of ZnO films on p-type silicon wafers. <i>Chinese Physics B</i> , <b>2007</b> , 16, 1790-1795		13
29	Optical processes in the formation of stimulated emission from ZnO nanowires. <i>Chinese Physics B</i> , <b>2007</b> , 16, 1129-1134		11
28	Phonon-assisted stimulated emission in Mn-doped ZnO nanowires. <i>Journal of Physics Condensed Matter</i> , <b>2007</b> , 19, 136206	1.8	24
27	Synthesis of PbS microcrystals via a hydrothermal process. <i>Materials Letters</i> , <b>2006</b> , 60, 1242-1246	3.3	32
26	Fabrication and photoluminescence of high-quality ternary CdSSe nanowires and nanoribbons. <i>Nanotechnology</i> , <b>2006</b> , 17, 1083-6	3.4	62

25	Phonon-assisted stimulated emission from single CdS nanoribbons at room temperature. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 173102	3.4	38
24	High-quality alloyed CdS <sub>x</sub> Se <sub>1-x</sub> whiskers as waveguides with tunable stimulated emission. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 22313-7	3.4	47
23	Lasing mechanism of ZnO nanowires/nanobelts at room temperature. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 12865-73	3.4	112
22	Simulated emission behaviors from Excitons in CdS nanoribbons. <i>Journal of Physics: Conference Series</i> , <b>2006</b> , 28, 12-17	0.3	4
21	Self-Absorption Effect in the Spatial Resolved Spectra of CdS Nano-Ribbon Optical Waveguide Observed by Near-Field Spectroscopy. <i>Optical Review</i> , <b>2006</b> , 13, 235-238	0.9	7
20	Strong photoluminescence of nanostructured crystalline tungsten oxide thin films. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 141901	3.4	136
19	Color-tunable photoluminescence of alloyed CdS(x)Se(1-x) nanobelts. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 15692-3	16.4	206
18	Study of Eu(DBM) <sub>3</sub> phen-doped optical polymer waveguides. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2005</b> , 22, 820	1.7	17
17	Study of rhodamine B-doped polymer optical waveguides by using scanning near-field optical microscopy <b>2005</b> , 6019, 702		
16	Controllable growth and optical properties of large scale ZnO arrays. <i>Journal of Crystal Growth</i> , <b>2005</b> , 282, 125-130	1.6	20
15	ZnO flowers made up of thin nanosheets and their optical properties. <i>Journal of Crystal Growth</i> , <b>2005</b> , 282, 165-172	1.6	119
14	Stimulated emissions in aligned CdS nanowires at room temperature. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 24268-72	3.4	143
13	Optical waveguide through CdS nanoribbons. <i>Small</i> , <b>2005</b> , 1, 980-3	11	184
12	Thermal stability and lasing of CdS nanowires coated by amorphous silica. <i>Small</i> , <b>2005</b> , 1, 1058-62	11	44
11	Surface crystallization effects on the optical and electric properties of CdS nanorods. <i>Nanotechnology</i> , <b>2005</b> , 16, 2402-6	3.4	19
10	Growth of dendritic cobalt nanocrystals at room temperature. <i>Journal of Crystal Growth</i> , <b>2004</b> , 260, 427-434	4.4	83
9	Preparation of nanosized particles of FeNi and FeCo alloy in solution. <i>Journal of Materials Science</i> , <b>2003</b> , 38, 4581-4585	4.3	53
8	Gamma-irradiation-induced Ag/SiO <sub>2</sub> composite films and their optical absorption properties. <i>Materials Research Bulletin</i> , <b>2003</b> , 38, 789-796	5.1	16

7	Changeable position of SPR peak of Ag nanoparticles embedded in mesoporous SiO <sub>2</sub> glass by annealing treatment. <i>Applied Surface Science</i> , <b>2003</b> , 205, 323-328	6.7	59
6	Non-Traditional Positively-Biased Narrow-Band Perovskite Single-Crystal Photodetectors Enabled by Interfacial Engineering. <i>Advanced Optical Materials</i> , 2102225	8.1	1
5	Plasmonically engineered light-matter interactions in Au-nanoparticle/MoS <sub>2</sub> heterostructures for artificial optoelectronic synapse. <i>Nano Research</i> , 1	10	5
4	Amorphous B-doped graphitic carbon nitride quantum dots with high photoluminescence quantum yield of near 90% and their sensitive detection of Fe <sup>2+</sup> /Cd <sup>2+</sup> . <i>Science China Materials</i> , 1	7.1	3
3	Low Thresholds and Tunable Modes in Plasmon-Assisted Perovskite Microlasers. <i>Advanced Optical Materials</i> , 2102777	8.1	1
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	