Aanlian Pan

List of Publications by Year
in descending order

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342 papers	19,998 citations	8159 76 h-index	15218 126 g-index
352 all docs	352 docs citations	352 times ranked	20329 citing authors

#	Article	IF	Citations
1	A hostâ€“guest self-assembly strategy to enhance Ï€-electron densities in ultrathin porous carbon nitride nanocages toward highly efficient hydrogen evolution. Chemical Engineering Journal, 2022, 430, 132880.	6.6	33
2	Picosecond electrical response in graphene/MoTe2 heterojunction with high responsivity in the near infrared region. Fundamental Research, 2022, 2, 405-411.	1.6	3
3	Plasmonically engineered light-matter interactions in Au-nanoparticle/MoS2 heterostructures for artificial optoelectronic synapse. Nano Research, 2022, 15, 3539-3547.	5.8	20
4	Efficient modulation of MoS2/WSe2 interlayer excitons via uniaxial strain. Applied Physics Letters, 2022, 120, .	1.5	14
5	A Waveguide-Integrated Two-Dimensional Light-Emitting Diode Based on p-Type WSe₂/n-Type CdS Nanoribbon Heterojunction. ACS Nano, 2022, 16, 4371-4378.	7.3	17
6	Photoluminescence Lightening: Extraordinary Oxygen Modulated Dynamics in WS₂ Monolayers. Nano Letters, 2022, 22, 2112-2119.	4.5	16
7	Infrared photodetector based on 2D monoclinic gold phosphide nanosheets yielded from one-step chemical vapor transport deposition. Applied Physics Letters, 2022, 120, 131104.	1.5	1
8	Strong interfacial coupling in vertical WSe2/WS2 heterostructure for high performance photodetection. Applied Physics Letters, 2022, 120, .	1.5	5
9	Magnetic Doping Induced Strong Circularly Polarized Light Emission and Detection in 2D Layered Halide Perovskite. Advanced Optical Materials, 2022, 10, .	3.6	17
10	Manipulating Picosecond Photoresponse in van der Waals Heterostructure Photodetectors. Advanced Functional Materials, 2022, 32, .	7.8	6
11	Gallium doping-assisted giant photoluminescence enhancement of monolayer MoS₂ grown by chemical vapor deposition. Applied Physics Letters, 2022, 120, 221902.	1.5	2
12	Metasurface-enabled on-chip multiplexed diffractive neural networks in the visible. Light: Science and Applications, 2022, 11, .	7.7	84
13	Defect-induced distinct exciton-exciton interactions in WS2 monolayers. Science China Materials, 2022, 65, 2502-2510.	3.5	4
14	Evidence for moirÃ© intralayer excitons in twisted WSe2/WSe2 homobilayer superlattices. Light: Science and Applications, 2022, 11, .	7.7	29
15	Band Alignment Engineering by Twist Angle and Composition Modulation for Heterobilayer. Small, 2022, 18, .	5.2	2
16	Room Temperature Fluorescence Blinking in MoS₂ Atomic Layers by Single Photon Energy Transfer. Laser and Photonics Reviews, 2022, 16, .	4.4	5
17	Morphology Deformation and Giant Electronic Band Modulation in Long-Wavelength WS₂ MoirÃ© Superlattices. Nano Letters, 2022, 22, 5997-6003.	4.5	6
18	Bottom-up fabrication of semiconducting 2D coordination nanosheets for versatile bioimaging and photodetecting applications. Materials Advances, 2021, 2, 5189-5194.	2.6	5

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19	Ultrathin and Conformable Lead Halide Perovskite Photodetector Arrays for Potential Application in Retinaâ€Like Vision Sensing. Advanced Materials, 2021, 33, e2006006.	11.1	87
20	MoirÃ© superlattices and related moirÃ© excitons in twisted van der Waals heterostructures. Chemical Society Reviews, 2021, 50, 6401-6422.	18.7	38
21	Strain-Stabilized Metastable Face-Centered Tetragonal Gold Overlayer for Efficient CO₂ Electroreduction. Nano Letters, 2021, 21, 1003-1010.	4.5	32
22	A novel visible light sensing and recording system enabled by integration of photodetector and electrochromic devices. Nanoscale, 2021, 13, 9177-9184.	2.8	8
23	Controlled growth of SnSe/MoS₂ vertical pâ€“n heterojunction for optoelectronic applications. Nano Futures, 2021, 5, 015002.	1.0	12
24	Light-triggered interfacial charge transfer and enhanced photodetection in CdSe/ZnS quantum dots/MoS₂ mixed-dimensional phototransistors. Opto-Electronic Advances, 2021, 4, 210017-210017.	6.4	19
25	Giant nonlinear optical activity in two-dimensional palladium diselenide. Nature Communications, 2021, 12, 1083.	5.8	76
26	Revealing the many-body interactions and valley-polarization behavior in Re-doped MoS2 monolayers. Applied Physics Letters, 2021, 118, .	1.5	6
27	Recent Advances in Twoâ€Dimensional Heterostructures: From Band Alignment Engineering to Advanced Optoelectronic Applications. Advanced Electronic Materials, 2021, 7, 2001174.	2.6	34
28	Supersaturation-triggered synthesis of 2D/1D phosphide heterostructures as multi-functional catalysts for water splitting. Applied Physics Letters, 2021, 118, .	1.5	10
29	Ultrastable low-cost colloidal quantum dot microlasers of operative temperature up to 450â€‰K. Light: Science and Applications, 2021, 10, 60.	7.7	25
30	Highâ€Throughput Oneâ€Photon Excitation Pathway in 0D/3D Heterojunctions for Visibleâ€Light Driven Hydrogen Evolution. Advanced Functional Materials, 2021, 31, 2100816.	7.8	92
31	Efficient control of emission and carrier polarity in WS2 monolayer by indium doping. Science China Materials, 2021, 64, 1449-1456.	3.5	21
32	An Efficient Deep-Subwavelength Second Harmonic Nanoantenna Based on Surface Plasmon-Coupled Dilute Nitride GaNP Nanowires. Nano Letters, 2021, 21, 3426-3434.	4.5	6
33	Interlayer exciton formation, relaxation, and transport in TMD van der Waals heterostructures. Light: Science and Applications, 2021, 10, 72.	7.7	184
34	Transferred van der Waals metal electrodes for sub-1-nm MoS2 vertical transistors. Nature Electronics, 2021, 4, 342-347.	13.1	140
35	Recent Progress on Electrical and Optical Manipulations of Perovskite Photodetectors. Advanced Science, 2021, 8, e2100569.	5.6	118
36	Liquid-Metal-Assisted Growth of Vertical GaSe/MoS₂ pâ€“n Heterojunctions for Sensitive Self-Driven Photodetectors. ACS Nano, 2021, 15, 10039-10047.	7.3	73

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37	Oneâ€Photon Excitation Pathway: Highâ€Throughput Oneâ€Photon Excitation Pathway in 0D/3D Heterojunctions for Visibleâ€Light Driven Hydrogen Evolution (Adv. Funct. Mater. 18/2021). Advanced Functional Materials, 2021, 31, 2170125.	7.8	1
38	Doubleâ€Gate MoS₂ Fieldâ€Effect Transistors with Fullâ€Range Tunable Threshold Voltage for Multifunctional Logic Circuits. Advanced Materials, 2021, 33, e2101036.	11.1	42
39	Amorphous B-doped graphitic carbon nitride quantum dots with high photoluminescence quantum yield of near 90% and their sensitive detection of Fe2+/Cd2+. Science China Materials, 2021, 64, 3037-3050.	3.5	17
40	Spinâ€Orbit Torque in Van der Waalsâ€Layered Materials and Heterostructures. Advanced Science, 2021, 8, e2100847.	5.6	35
41	Robust and High Photoluminescence in WS₂ Monolayer through In Situ Defect Engineering. Advanced Functional Materials, 2021, 31, 2105339.	7.8	47
42	Orbital-Angular-Momentum-Controlled Hybrid Nanowire Circuit. Nano Letters, 2021, 21, 6220-6227.	4.5	19
43	Polarized photoluminescence spectroscopy in WS₂, WSe₂ atomic layers and heterostructures by cylindrical vector beams*. Chinese Physics B, 2021, 30, 087802.	0.7	1
44	Strong Second- and Third-Harmonic Generation in 1D Chiral Hybrid Bismuth Halides. Journal of the American Chemical Society, 2021, 143, 16095-16104.	6.6	74
45	Acid-induced topological morphology modulation of graphitic carbon nitride homojunctions as advanced metal-free catalysts for OER and pollutant degradation. Journal of Materials Science and Technology, 2021, 86, 210-218.	5.6	18
46	Controlled vapor growth of 2D magnetic Cr₂Se₃ and its magnetic proximity effect in heterostructures*. Chinese Physics B, 2021, 30, 097601.	0.7	11
47	Strain-controlled synthesis of ultrathin hexagonal GaTe/MoS2 heterostructure for sensitive photodetection. IScience, 2021, 24, 103031.	1.9	6
48	Indirect to direct band gap crossover in two-dimensional WS2(1â^'x)Se2x alloys. Npj 2D Materials and Applications, 2021, 5, .	3.9	31
49	Generalized Synthetic Strategy for Amorphous Transition Metal Oxidesâ€Based 2D Heterojunctions with Superb Photocatalytic Hydrogen and Oxygen Evolution. Advanced Functional Materials, 2021, 31, 2009230.	7.8	97
50	Enhancing circular polarization of photoluminescence of two-dimensional Ruddlesdenâ€“Popper perovskites by constructing van der Waals heterostructures. Applied Physics Letters, 2021, 119, .	1.5	3
51	Electrically switchable valley polarization, spin/valley filter, and valve effects in transition-metal dichalcogenide monolayers interfaced with two-dimensional ferromagnetic semiconductors. Physical Review B, 2021, 104, .	1.1	14
52	Interface engineering of ferroelectricity in thin films of thiophosphate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>A</mml:mi><mml:mi>B</mml:mi></mml:mrow><mml:mr		

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55	Interfacial charge modulation: carbon quantum dot implanted carbon nitride double-deck nanoframes for robust visible-light photocatalytic tetracycline degradation. Nanoscale, 2020, 12, 3135-3145.	2.8	45
56	Light-triggered two-dimensional lateral homogeneous p-n diodes for opto-electrical interconnection circuits. Science Bulletin, 2020, 65, 293-299.	4.3	29
57	Large-Scale Growth of Ultrathin Low-Dimensional Perovskite Nanosheets for High-Detectivity Photodetectors. ACS Applied Materials & Interfaces, 2020, 12, 2884-2891.	4.0	26
58	Dualâ€channel type tunable fieldâ€effect transistors based on vertical bilayer WS_{2(1â€‰â^'â€‰x)}Se_{2x}/SnS₂ heterostructures. InformaÄnÃ¡ MateriÃ¡ly, 2020, 2, 752-760.	15	32
59	Observation and Active Control of a Collective Polariton Mode and Polaritonic Band Gap in Few-Layer WS₂ Strongly Coupled with Plasmonic Lattices. Nano Letters, 2020, 20, 790-798.	4.5	25
60	CVD growth of perovskite/graphene films for high-performance flexible image sensor. Science Bulletin, 2020, 65, 343-349.	4.3	72
61	Rubidium Doping to Enhance Carrier Transport in CsPbBr₃ Single Crystals for High-Performance X-Ray Detection. ACS Applied Materials & Interfaces, 2020, 12, 989-996.	4.0	84
62	Effects of the substrate-surface reconstruction and orientation on the spin valley polarization in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Mo</mml:mi><mml:msub><mml:mi>Te</mml:mi><mml:mi><mml:r mathvariant="normal">O</mml:mi></mml:mrow></mml:math>. Physical Review B, 2020, 102, .	1.1	10
63	Generation of helical topological exciton-polaritons. Science, 2020, 370, 600-604.	6.0	97
64	General Synthesis of Nanoporous 2D Metal Compounds with 3D Bicontinous Structure. Advanced Materials, 2020, 32, e2004055.	11.1	20
65	Record high photoresponse observed in CdS-black phosphorous van der Waals heterojunction photodiode. Science China Materials, 2020, 63, 1570-1578.	3.5	13
66	Planar Heterojunction Organic Photodetectors Based on Fullerene and Non-fullerene Acceptor Bilayers for a Tunable Spectral Response. ACS Applied Materials & Interfaces, 2020, 12, 55064-55071.	4.0	15
67	Twist Angle-Dependent Optical Responses in Controllably Grown WS₂ Vertical Homojunctions. Chemistry of Materials, 2020, 32, 9721-9729.	3.2	25
68	Seamlessly Splicing Metallic Sn_xMo_{1â^'}_xS₂ at MoS₂ Edge for Enhanced Photoelectrocatalytic Performance in Microreactor. Advanced Science, 2020, 7, 2002172.	5.6	30
69	Enhanced Trion Emission and Carrier Dynamics in Monolayer WS₂ Coupled with Plasmonic Nanocavity. Advanced Optical Materials, 2020, 8, 2001147.	3.6	36
70	Broadband emission in all-inorganic metal halide perovskites with intrinsic vacancies. Journal of Materials Chemistry C, 2020, 8, 13976-13981.	2.7	13
71	Triphenylamineâ€“Polystyrene Blends for Perovskite Solar Cells with Simultaneous Energy Loss Suppression and Stability Improvement. Solar Rrl, 2020, 4, 2000490.	3.1	6
72	Room temperature near unity spin polarization in 2D Van der Waals heterostructures. Nature Communications, 2020, 11, 4442.	5.8	44

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73	Strain-activated light-induced halide segregation in mixed-halide perovskite solids. Nature Communications, 2020, 11, 6328.	5.8	86
74	Carrier Transport Across a CdS_xSe_{1â€“x} Lateral Heterojunction Visualized by Ultrafast Microscopy. Journal of Physical Chemistry C, 2020, 124, 11325-11332.	1.5	11
75	Twist-angle-dependent interlayer exciton diffusion in WS2â€“WSe2 heterobilayers. Nature Materials, 2020, 19, 617-623.	13.3	193
76	Photocurrent detection of the orbital angular momentum of light. Science, 2020, 368, 763-767.	6.0	113
77	Ultra-thin tubular graphitic carbon Nitride-Carbon Dot lateral heterostructures: One-Step synthesis and highly efficient catalytic hydrogen generation. Chemical Engineering Journal, 2020, 397, 125470.	6.6	72
78	Nearâ€Unity Polarization of Valleyâ€Dependent Secondâ€Harmonic Generation in Stacked TMDC Layers and Heterostructures at Room Temperature. Advanced Materials, 2020, 32, e1908061.	11.1	36
79	Wavelengthâ€Tunable Midâ€Infrared Lasing from Black Phosphorus Nanosheets. Advanced Materials, 2020, 32, e1808319.	11.1	56
80	Epitaxial nucleation and lateral growth of high-crystalline black phosphorus films on silicon. Nature Communications, 2020, 11, 1330.	5.8	102
81	Mechanism of Extreme Optical Nonlinearities in Spiral WS₂ above the Bandgap. Nano Letters, 2020, 20, 2667-2673.	4.5	25
82	Contact and injection engineering for low SS reconfigurable FETs and high gain complementary inverters. Science Bulletin, 2020, 65, 2007-2013.	4.3	13
83	Magnetic-brightening and control of dark exciton in CsPbBr3 perovskite. Science China Materials, 2020, 63, 1503-1509.	3.5	8
84	Epitaxial synthesis of ultrathin Î²-In₂Se₃/MoS₂ heterostructures with high visible/near-infrared photoresponse. Nanoscale, 2020, 12, 6480-6488.	2.8	42
85	Hierarchical Self-assembly of Well-Defined Louver-Like P-Doped Carbon Nitride Nanowire Arrays with Highly Efficient Hydrogen Evolution. Nano-Micro Letters, 2020, 12, 52.	14.4	45
86	An Electrically Controlled Wavelength-Tunable Nanoribbon Laser. ACS Nano, 2020, 14, 3397-3404.	7.3	26
87	Cooperative excitonic quantum ensemble in perovskite-assembly superlattice microcavities. Nature Communications, 2020, 11, 329.	5.8	51
88	Revealing Excitonic and Electron-Hole Plasma States in Stimulated Emission of Single <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>Cs</mml:mi><mml:mi>Pb</mml:mi><mml:mi>Br</mml:mi></mml:mrow><mml:n Nanowires at Room Temperature. Physical Review Applied, 2020, 13, .	1.5	19
89	Wavelength-Tunable Interlayer Exciton Emission at the Near-Infrared Region in van der Waals Semiconductor Heterostructures. Nano Letters, 2020, 20, 3361-3368.	4.5	35
90	High-performance optoelectronic devices based on van der Waals vertical MoS2/MoSe2 heterostructures. Nano Research, 2020, 13, 1053-1059.	5.8	63

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91	Trap-Mediated Energy Transfer in Er-Doped Cesium Lead Halide Perovskite. Journal of Physical Chemistry Letters, 2020, 11, 3320-3326.	2.1	6
92	Two ultra-stable novel allotropes of tellurium few-layers*. Chinese Physics B, 2020, 29, 097103.	0.7	5
93	Polarization-Dependent Optical Properties and Optoelectronic Devices of 2D Materials. Research, 2020, 2020, 5464258.	2.8	21
94	Room temperature exciton-polaritons in high-quality 2D Ruddlesdenâ€“Popper perovskites (BA)2(MA)n-1PbnI3n+1 (n = 3, 4). Applied Physics Letters, 2020, 117, .	1.5	7
95	Ultrahigh Hole Mobility of Sn-Catalyzed GaSb Nanowires for High Speed Infrared Photodetectors. Nano Letters, 2019, 19, 5920-5929.	4.5	61
96	Strategy to boost catalytic activity of polymeric carbon nitride: synergistic effect of controllable in situ surface engineering and morphology. Nanoscale, 2019, 11, 16393-16405.	2.8	45
97	WO₃â€“WS₂ Vertical Bilayer Heterostructures with High Photoluminescence Quantum Yield. Journal of the American Chemical Society, 2019, 141, 11754-11758.	6.6	69
98	Incorporating Large A Cations into Lead Iodide Perovskite Cages: Relaxed Goldschmidt Tolerance Factor and Impact on Excitonâ€“Phonon Interaction. ACS Central Science, 2019, 5, 1377-1386.	5.3	142
99	Strong interlayer hybridization in the aligned SnS2/WSe2 hetero-bilayer structure. Npj 2D Materials and Applications, 2019, 3, .	3.9	39
100	Surface functionalized 3D carbon fiber boosts the lithium storage behaviour of transition metal oxide nanowires via strong electronic interaction and tunable adsorption energy. Nanoscale Horizons, 2019, 4, 1402-1410.	4.1	19
101	Steering charge kinetics boost the photocatalytic activity of graphitic carbon nitride: heteroatom-mediated spatial charge separation and transfer. Journal Physics D: Applied Physics, 2019, 53, 015502.	1.3	28
102	High efficiency and fast van der Waals hetero-photodiodes with a unilateral depletion region. Nature Communications, 2019, 10, 4663.	5.8	213
103	Self-Powered Broad-band Photodetectors Based on Vertically Stacked WSe₂/Bi₂Te₃ pâ€“n Heterojunctions. ACS Nano, 2019, 13, 13573-13580.	7.3	165
104	Carrier-Funneling-Induced Efficient Energy Transfer in CdSxSe1â€“x Heterostructure Microplates. ACS Energy Letters, 2019, 4, 2796-2804.	8.8	15
105	Cavity Engineering of Photonâ€“Phonon Interactions in Si Nanocavities. Nano Letters, 2019, 19, 7950-7956.	4.5	5
106	Enhanced luminescent intensity in a free-standing erbium silicate microplate. Journal of Modern Optics, 2019, 66, 1951-1955.	0.6	0
107	Vapor growth of WSe2/WS2 heterostructures with stacking dependent optical properties. Nano Research, 2019, 12, 3123-3128.	5.8	32
108	Unconventional pâ€“d Hybridization Interaction in PtGa Ultrathin Nanowires Boosts Oxygen Reduction Electrocatalysis. Journal of the American Chemical Society, 2019, 141, 18083-18090.	6.6	216

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109	Probing and Manipulating Carrier Interlayer Diffusion in van der Waals Multilayer by Constructing Type-I Heterostructure. Nano Letters, 2019, 19, 7217-7225.	4.5	42
110	Room-temperature high-performance CsPbBr₃ perovskite tetrahedral microlasers. Nanoscale, 2019, 11, 2393-2400.	2.8	38
111	Controlled Vapor Growth and Nonlinear Optical Applications of Largeâ€Area 3R Phase WS₂ and WSe₂ Atomic Layers. Advanced Functional Materials, 2019, 29, 1806874.	7.8	92
112	Nanocavity-Enhanced Giant Stimulated Raman Scattering in Si Nanowires in the Visible Light Region. Nano Letters, 2019, 19, 1204-1209.	4.5	17
113	Trion-Induced Distinct Transient Behavior and Stokes Shift in WS₂ Monolayers. Journal of Physical Chemistry Letters, 2019, 10, 3763-3772.	2.1	13
114	Ultrahigh-Performance Optoelectronics Demonstrated in Ultrathin Perovskite-Based Vertical Semiconductor Heterostructures. ACS Nano, 2019, 13, 7996-8003.	7.3	64
115	Phononâ€Assisted Electroâ€Optical Switches and Logic Gates Based on Semiconductor Nanostructures. Advanced Materials, 2019, 31, e1901263.	11.1	21
116	Nonvolatile MoTe₂ pâ€“n Diodes for Optoelectronic Logics. ACS Nano, 2019, 13, 7216-7222.	7.3	52
117	Magneto-spectroscopy of exciton Rydberg states in a CVD grown WSe2 monolayer. Applied Physics Letters, 2019, 114, .	1.5	17
118	Highly stable lead-free Cs3Bi2I9 perovskite nanoplates for photodetection applications. Nano Research, 2019, 12, 1894-1899.	5.8	96
119	Multicolor Semiconductor Lasers. Advanced Optical Materials, 2019, 7, 1900071.	3.6	28
120	Properties of Excitons and Photogenerated Charge Carriers in Metal Halide Perovskites. Advanced Materials, 2019, 31, e1806671.	11.1	134
121	Rational Kinetics Control toward Universal Growth of 2D Vertically Stacked Heterostructures. Advanced Materials, 2019, 31, e1901351.	11.1	79
122	Optically manipulated nanomechanics of semiconductor nanowires. Chinese Physics B, 2019, 28, 054204.	0.7	5
123	Vapor growth of CdS nanowires/WS₂ nanosheet heterostructures with sensitive photodetections. Nanotechnology, 2019, 30, 345603.	1.3	18
124	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. Applied Catalysis B: Environmental, 2019, 254, 321-328.	10.8	134
125	Nitrogen treatment generates tunable nanohybridization of Ni5P4 nanosheets with nickel hydr(oxy)oxides for efficient hydrogen production in alkaline, seawater and acidic media. Applied Catalysis B: Environmental, 2019, 251, 181-194.	10.8	260
126	Doping-Induced Hydrogen-Bond Engineering in Polymeric Carbon Nitride To Significantly Boost the Photocatalytic H₂ Evolution Performance. ACS Applied Materials & Interfaces, 2019, 11, 17341-17349.	4.0	71

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127	Polar-Induced Selective Epitaxial Growth of Multijunction Nanoribbons for High-Performance Optoelectronics. ACS Applied Materials & Interfaces, 2019, 11, 15813-15820.	4.0	7
128	Tin(IV)-Tolerant Vapor-Phase Growth and Photophysical Properties of Aligned Cesium Tin Halide Perovskite (CsSnX₃; X = Br, I) Nanowires. ACS Energy Letters, 2019, 4, 1045-1052.	8.8	84
129	Ultra-long distance carrier transportation in bandgap-graded CdS_xSe_{1â^'x} nanowire waveguides. Nanoscale, 2019, 11, 8494-8501.	2.8	11
130	Controlled fabrication, lasing behavior and excitonic recombination dynamics in single crystal CH3NH3PbBr3 perovskite cuboids. Science Bulletin, 2019, 64, 698-704.	4.3	33
131	Near-infrared photodetection based on erbium chloride borate nanobelts. Applied Physics Express, 2019, 12, 035001.	1.1	3
132	High-responsivity two-dimensional p-PbI₂/n-WS₂ vertical heterostructure photodetectors enhanced by photogating effect. Materials Horizons, 2019, 6, 1474-1480.	6.4	51
133	Low-temperature synthesis of all-inorganic perovskite nanocrystals for UV-photodetectors. Journal of Materials Chemistry C, 2019, 7, 5488-5496.	2.7	19
134	Protonated supramolecular complex-induced porous graphitic carbon nitride nanosheets as bifunctional catalyst for water oxidation and organic pollutant degradation. Journal of Materials Science, 2019, 54, 7637-7650.	1.7	16
135	High-Temperature Upconverted Single-Mode Lasing in 3D Fully Inorganic Perovskite Microcubic Cavity. ACS Photonics, 2019, 6, 793-801.	3.2	35
136	Van der Waals epitaxial growth of vertically stacked Sb2Te3/MoS2 pâ€“n heterojunctions for high performance optoelectronics. Nano Energy, 2019, 59, 66-74.	8.2	112
137	Direct Vapor Growth of 2D Vertical Heterostructures with Tunable Band Alignments and Interfacial Charge Transfer Behaviors. Advanced Science, 2019, 6, 1802204.	5.6	87
138	Germanium/perovskite heterostructure for high-performance and broadband photodetector from visible to infrared telecommunication band. Light: Science and Applications, 2019, 8, 106.	7.7	172
139	Flexible Photodetector Arrays Based on Patterned CH₃NH₃PbI_{3â^'}_xCl_x Perovskite Film for Realâ€Time Photosensing and Imaging. Advanced Materials, 2019, 31, e1805913.	11.1	174
140	Focus on 2D material nanophotonics. Nanotechnology, 2019, 30, 030201.	1.3	4
141	How lasing happens in CsPbBr3 perovskite nanowires. Nature Communications, 2019, 10, 265.	5.8	168
142	Controlled Synthesis and Photonics Applications of Metal Halide Perovskite Nanowires. Small Methods, 2019, 3, 1800294.	4.6	45
143	Bandgap and Interface Engineering of Two-dimensional Layered Semiconductors. , 2019, , .		0
144	Self-assembled hierarchical carbon/g-C₃N₄ composite with high photocatalytic activity. Journal Physics D: Applied Physics, 2018, 51, 135501.	1.3	12

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145	Non-fullerene acceptors for large-open-circuit-voltage and high-efficiency organic solar cells. Materials Today Nano, 2018, 1, 47-59.	2.3	10
146	Strain-Tuning Atomic Substitution in Two-Dimensional Atomic Crystals. ACS Nano, 2018, 12, 4853-4860.	7.3	75
147	Wavelength Selective Photodetectors Integrated on a Single Compositionâ€Graded Semiconductor Nanowire. Advanced Optical Materials, 2018, 6, 1800293.	3.6	21
148	Facilein situsynthesis of wurtzite ZnS/ZnO core/shell heterostructure with highly efficient visible-light photocatalytic activity and photostability. Journal Physics D: Applied Physics, 2018, 51, 075501.	1.3	36
149	Visualizing Carrier Transport in Metal Halide Perovskite Nanoplates via Electric Field Modulated Photoluminescence Imaging. Nano Letters, 2018, 18, 3024-3031.	4.5	38
150	Understanding the Different Excitonâ€“Plasmon Coupling Regimes in Two-Dimensional Semiconductors Coupled with Plasmonic Lattices: A Combined Experimental and Unified Equation of Motion Approach. ACS Photonics, 2018, 5, 192-204.	3.2	30
151	Single-mode lasing and 3D confinement from perovskite micro-cubic cavity. Journal of Materials Chemistry C, 2018, 6, 11740-11748.	2.7	37
152	Theory-Driven Heterojunction Photocatalyst Design with Continuously Adjustable Band Gap Materials. Journal of Physical Chemistry C, 2018, 122, 28065-28074.	1.5	20
153	Spaceâ€Confined Synthesis of 2D Allâ€Inorganic CsPbI₃ Perovskite Nanosheets for Multiphotonâ€Pumped Lasing. Advanced Optical Materials, 2018, 6, 1800879.	3.6	65
154	Multicolor Heterostructures of Two-Dimensional Layered Halide Perovskites that Show Interlayer Energy Transfer. Journal of the American Chemical Society, 2018, 140, 15675-15683.	6.6	95
155	Composition modulation in one-dimensional and two-dimensional chalcogenide semiconductor nanostructures. Chemical Society Reviews, 2018, 47, 7504-7521.	18.7	99
156	Temperature Difference Triggering Controlled Growth of Allâ€Inorganic Perovskite Nanowire Arrays in Air. Small, 2018, 14, e1803010.	5.2	29
157	Active optical antennas driven by inelastic electron tunneling. Nanophotonics, 2018, 7, 1503-1516.	2.9	15
158	Controllable Growth and Formation Mechanisms of Dislocated WS₂ Spirals. Nano Letters, 2018, 18, 3885-3892.	4.5	88
159	Facile in situ construction of mediator-free direct Z-scheme g-C₃N₄/CeO₂ heterojunctions with highly efficient photocatalytic activity. Journal Physics D: Applied Physics, 2018, 51, 275302.	1.3	110
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