

Aanlian Pan

List of Publications by Year in descending order

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342
papers

19,998
citations

8159

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Lateral epitaxial growth of two-dimensional layered semiconductor heterojunctions. <i>Nature Nanotechnology</i> , 2014, 9, 1024-1030.	15.6	1,056
2	Two-dimensional transition metal dichalcogenides as atomically thin semiconductors: opportunities and challenges. <i>Chemical Society Reviews</i> , 2015, 44, 8859-8876.	18.7	917
3	Growth of Alloy MoS_2 / Se_2 Nanosheets with Fully Tunable Chemical Compositions and Optical Properties. <i>Journal of the American Chemical Society</i> , 2014, 136, 3756-3759.	6.6	444
4	Van der Waals epitaxial growth and optoelectronics of large-scale $\text{WSe}_2/\text{SnS}_2$ vertical bilayer p-n junctions. <i>Nature Communications</i> , 2017, 8, 1906.	5.8	369
5	Surface Plasmon-Enhanced Photodetection in Few Layer MoS_2 Phototransistors with Au Nanostructure Arrays. <i>Small</i> , 2015, 11, 2392-2398.	5.2	359
6	Synthesis of WS_2 / Se_2 Alloy Nanosheets with Composition-Tunable Electronic Properties. <i>Nano Letters</i> , 2016, 16, 264-269.	4.5	308
7	Two-Dimensional $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite Nanosheets for Ultrafast Pulsed Fiber Lasers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12759-12765.	4.0	296
8	Directional Growth of Ultralong CsPbBr_3 Perovskite Nanowires for High-Performance Photodetectors. <i>Journal of the American Chemical Society</i> , 2017, 139, 15592-15595.	6.6	260
9	Nitrogen treatment generates tunable nanohybridization of Ni_5P_4 nanosheets with nickel hydr(oxy)oxides for efficient hydrogen production in alkaline, seawater and acidic media. <i>Applied Catalysis B: Environmental</i> , 2019, 251, 181-194.	10.8	260
10	Insights into Enhanced Visible-Light Photocatalytic Hydrogen Evolution of $\text{g-C}_3\text{N}_4$ and Highly Reduced Graphene Oxide Composite: The Role of Oxygen. <i>Chemistry of Materials</i> , 2015, 27, 1612-1621.	3.2	252
11	Novel $\text{Ag}_3\text{PO}_4/\text{CeO}_2$ composite with high efficiency and stability for photocatalytic applications. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1750-1756.	5.2	251
12	Vapor Growth and Tunable Lasing of Band Gap Engineered Cesium Lead Halide Perovskite Micro/Nanorods with Triangular Cross Section. <i>ACS Nano</i> , 2017, 11, 1189-1195.	7.3	245
13	Color-Tunable Photoluminescence of Alloyed $\text{CdS}_x\text{Se}_{1-x}$ Nanobelts. <i>Journal of the American Chemical Society</i> , 2005, 127, 15692-15693.	6.6	221
14	Single-Mode Lasers Based on Cesium Lead Halide Perovskite Submicron Spheres. <i>ACS Nano</i> , 2017, 11, 10681-10688.	7.3	216
15	Unconventional d Hybridization Interaction in PtGa Ultrathin Nanowires Boosts Oxygen Reduction Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2019, 141, 18083-18090.	6.6	216
16	High efficiency and fast van der Waals hetero-photodiodes with a unilateral depletion region. <i>Nature Communications</i> , 2019, 10, 4663.	5.8	213
17	Single-Crystal Thin Films of Cesium Lead Bromide Perovskite Epitaxially Grown on Metal Oxide Perovskite (SrTiO_3). <i>Journal of the American Chemical Society</i> , 2017, 139, 13525-13532.	6.6	209
18	High-Quality In-Plane Aligned CsPbX_3 Perovskite Nanowire Lasers with Composition-Dependent Strong Exciton-Photon Coupling. <i>ACS Nano</i> , 2018, 12, 6170-6178.	7.3	204

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19	Optical Waveguide through CdS Nanoribbons. <i>Small</i> , 2005, 1, 980-983.	5.2	193
20	Twist-angle-dependent interlayer exciton diffusion in WS ₂ /WSe ₂ heterobilayers. <i>Nature Materials</i> , 2020, 19, 617-623.	13.3	193
21	Continuous Alloy-Composition Spatial Grading and Superbroad Wavelength-Tunable Nanowire Lasers on a Single Chip. <i>Nano Letters</i> , 2009, 9, 784-788.	4.5	191
22	Lateral Growth of Composition Graded Atomic Layer MoS ₂ /Se Nanosheets. <i>Journal of the American Chemical Society</i> , 2015, 137, 5284-5287.	6.6	191
23	Interlayer exciton formation, relaxation, and transport in TMD van der Waals heterostructures. <i>Light: Science and Applications</i> , 2021, 10, 72.	7.7	184
24	Flexible Photodetector Arrays Based on Patterned CH ₃ NH ₃ Pb ₃ Cl Perovskite Film for Real-Time Photosensing and Imaging. <i>Advanced Materials</i> , 2019, 31, e1805913.	11.1	174
25	Germanium/perovskite heterostructure for high-performance and broadband photodetector from visible to infrared telecommunication band. <i>Light: Science and Applications</i> , 2019, 8, 106.	7.7	172
26	How lasing happens in CsPbBr ₃ perovskite nanowires. <i>Nature Communications</i> , 2019, 10, 265.	5.8	168
27	Self-Powered Broad-band Photodetectors Based on Vertically Stacked WSe ₂ /Bi ₂ Te ₃ Heterojunctions. <i>ACS Nano</i> , 2019, 13, 13573-13580.	7.3	165
28	Stimulated Emissions in Aligned CdS Nanowires at Room Temperature. <i>Journal of Physical Chemistry B</i> , 2005, 109, 24268-24272.	1.2	153
29	Strong photoluminescence of nanostructured crystalline tungsten oxide thin films. <i>Applied Physics Letters</i> , 2005, 86, 141901.	1.5	148
30	Incorporating Large A Cations into Lead Iodide Perovskite Cages: Relaxed Goldschmidt Tolerance Factor and Impact on Exciton-Phonon Interaction. <i>ACS Central Science</i> , 2019, 5, 1377-1386.	5.3	142
31	Transferred van der Waals metal electrodes for sub-1-nm MoS ₂ vertical transistors. <i>Nature Electronics</i> , 2021, 4, 342-347.	13.1	140
32	Band Alignment Engineering in Two-Dimensional Lateral Heterostructures. <i>Journal of the American Chemical Society</i> , 2018, 140, 11193-11197.	6.6	136
33	Spatial Composition Grading of Quaternary ZnCdS ₂ Alloy Nanowires with Tunable Light Emission between 350 and 710 nm on a Single Substrate. <i>ACS Nano</i> , 2010, 4, 671-680.	7.3	134
34	Room-Temperature Near-Infrared Photodetectors Based on Single Heterojunction Nanowires. <i>Nano Letters</i> , 2014, 14, 694-698.	4.5	134
35	Visible Light-Assisted High-Performance Mid-Infrared Photodetectors Based on Single InAs Nanowire. <i>Nano Letters</i> , 2016, 16, 6416-6424.	4.5	134
36	Properties of Excitons and Photogenerated Charge Carriers in Metal Halide Perovskites. <i>Advanced Materials</i> , 2019, 31, e1806671.	11.1	134

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37	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> , 2019, 254, 321-328.	10.8	134
38	Perovskite-Erbium Silicate Nanosheet Hybrid Waveguide Photodetectors at the Near-Infrared Telecommunication Band. <i>Advanced Materials</i> , 2017, 29, 1604431.	11.1	132
39	Two-Dimensional MoS ₂ -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> , 2017, 29, 5504-5512.	3.2	131
40	ZnO flowers made up of thin nanosheets and their optical properties. <i>Journal of Crystal Growth</i> , 2005, 282, 165-172.	0.7	128
41	Broken Symmetry Induced Strong Nonlinear Optical Effects in Spiral WS ₂ Nanosheets. <i>ACS Nano</i> , 2017, 11, 4892-4898.	7.3	123
42	High-Performance Flexible Photodetectors based on High-Quality Perovskite Thin Films by a Vapor Solution Method. <i>Advanced Materials</i> , 2017, 29, 1703256.	11.1	121
43	Lasing Mechanism of ZnO Nanowires/Nanobelts at Room Temperature. <i>Journal of Physical Chemistry B</i> , 2006, 110, 12865-12873.	1.2	120
44	Rayleigh-Instability-Induced Metal Nanoparticle Chains Encapsulated in Nanotubes Produced by Atomic Layer Deposition. <i>Nano Letters</i> , 2008, 8, 114-118.	4.5	118
45	Recent Progress on Electrical and Optical Manipulations of Perovskite Photodetectors. <i>Advanced Science</i> , 2021, 8, e2100569.	5.6	118
46	Direct Vapor Growth of Perovskite CsPbBr ₃ Nanoplate Electroluminescence Devices. <i>ACS Nano</i> , 2017, 11, 9869-9876.	7.3	117
47	Composition and Bandgap-Graded Semiconductor Alloy Nanowires. <i>Advanced Materials</i> , 2012, 24, 13-33.	11.1	113
48	Cesium lead halide perovskite triangular nanorods as high-gain medium and effective cavities for multiphoton-pumped lasing. <i>Nano Research</i> , 2017, 10, 3385-3395.	5.8	113
49	Photocurrent detection of the orbital angular momentum of light. <i>Science</i> , 2020, 368, 763-767.	6.0	113
50	Van der Waals epitaxial growth of vertically stacked Sb ₂ Te ₃ /MoS ₂ p-n heterojunctions for high performance optoelectronics. <i>Nano Energy</i> , 2019, 59, 66-74.	8.2	112
51	Facile <i>in situ</i> construction of mediator-free direct Z-scheme g-C ₃ N ₄ /CeO ₂ heterojunctions with highly efficient photocatalytic activity. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 275302.	1.3	110
52	Room-Temperature Dual-Wavelength Lasing from Single-Nanoribbon Lateral Heterostructures. <i>Journal of the American Chemical Society</i> , 2012, 134, 12394-12397.	6.6	109
53	Epitaxial nucleation and lateral growth of high-crystalline black phosphorus films on silicon. <i>Nature Communications</i> , 2020, 11, 1330.	5.8	102
54	Spatial Bandgap Engineering along Single Alloy Nanowires. <i>Journal of the American Chemical Society</i> , 2011, 133, 2037-2039.	6.6	101

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55	Single-Crystalline InGaAs Nanowires for Room-Temperature High-Performance Near-Infrared Photodetectors. <i>Nano-Micro Letters</i> , 2016, 8, 29-35.	14.4	101
56	Composition-Modulated Two-Dimensional Semiconductor Lateral Heterostructures via Layer-Selected Atomic Substitution. <i>ACS Nano</i> , 2017, 11, 961-967.	7.3	99
57	Composition modulation in one-dimensional and two-dimensional chalcogenide semiconductor nanostructures. <i>Chemical Society Reviews</i> , 2018, 47, 7504-7521.	18.7	99
58	Generation of helical topological exciton-polaritons. <i>Science</i> , 2020, 370, 600-604.	6.0	97
59	Generalized Synthetic Strategy for Amorphous Transition Metal Oxide-Based 2D Heterojunctions with Superb Photocatalytic Hydrogen and Oxygen Evolution. <i>Advanced Functional Materials</i> , 2021, 31, 2009230.	7.8	97
60	Highly stable lead-free Cs ₃ Bi ₂ I ₉ perovskite nanoplates for photodetection applications. <i>Nano Research</i> , 2019, 12, 1894-1899.	5.8	96
61	Multicolor Heterostructures of Two-Dimensional Layered Halide Perovskites that Show Interlayer Energy Transfer. <i>Journal of the American Chemical Society</i> , 2018, 140, 15675-15683.	6.6	95
62	Controlled Vapor Growth and Nonlinear Optical Applications of Large-Area 3R Phase WS ₂ and WSe ₂ Atomic Layers. <i>Advanced Functional Materials</i> , 2019, 29, 1806874.	7.8	92
63	High-Throughput One-Photon Excitation Pathway in 0D/3D Heterojunctions for Visible-Light Driven Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2021, 31, 2100816.	7.8	92
64	Growth of dendritic cobalt nanocrystals at room temperature. <i>Journal of Crystal Growth</i> , 2004, 260, 427-434.	0.7	91
65	On-Nanowire Axial Heterojunction Design for High-Performance Photodetectors. <i>ACS Nano</i> , 2016, 10, 8474-8481.	7.3	88
66	Controllable Growth and Formation Mechanisms of Dislocated WS ₂ Spirals. <i>Nano Letters</i> , 2018, 18, 3885-3892.	4.5	88
67	Light Emission Properties of 2D Transition Metal Dichalcogenides: Fundamentals and Applications. <i>Advanced Optical Materials</i> , 2018, 6, 1800420.	3.6	88
68	Wavelength-Converted/Selective Waveguiding Based on Composition-Graded Semiconductor Nanowires. <i>Nano Letters</i> , 2012, 12, 5003-5007.	4.5	87
69	Direct Vapor Growth of 2D Vertical Heterostructures with Tunable Band Alignments and Interfacial Charge Transfer Behaviors. <i>Advanced Science</i> , 2019, 6, 1802204.	5.6	87
70	Ultrathin and Conformable Lead Halide Perovskite Photodetector Arrays for Potential Application in Retina-Like Vision Sensing. <i>Advanced Materials</i> , 2021, 33, e2006006.	11.1	87
71	Strain-activated light-induced halide segregation in mixed-halide perovskite solids. <i>Nature Communications</i> , 2020, 11, 6328.	5.8	86
72	Tin(IV)-Tolerant Vapor-Phase Growth and Photophysical Properties of Aligned Cesium Tin Halide Perovskite (CsSnX ₃ ; X = Br, I) Nanowires. <i>ACS Energy Letters</i> , 2019, 4, 1045-1052.	8.8	84

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73	Rubidium Doping to Enhance Carrier Transport in CsPbBr ₃ Single Crystals for High-Performance X-Ray Detection. ACS Applied Materials & Interfaces, 2020, 12, 989-996.	4.0	84
74	Metasurface-enabled on-chip multiplexed diffractive neural networks in the visible. Light: Science and Applications, 2022, 11, .	7.7	84
75	On-Nanowire Spatial Band Gap Design for White Light Emission. Nano Letters, 2011, 11, 5085-5089.	4.5	81
76	Enhancing Light Emission of ZnO Nanofilm/Si Micropillar Heterostructure Arrays by Piezoelectric Phototronic Effect. Advanced Materials, 2015, 27, 4447-4453.	11.1	81
77	Rational Kinetics Control toward Universal Growth of 2D Vertically Stacked Heterostructures. Advanced Materials, 2019, 31, e1901351.	11.1	79
78	Quaternary Alloy Semiconductor Nanobelts with Bandgap Spanning the Entire Visible Spectrum. Journal of the American Chemical Society, 2009, 131, 9502-9503.	6.6	77
79	Giant nonlinear optical activity in two-dimensional palladium diselenide. Nature Communications, 2021, 12, 1083.	5.8	76
80	Strain-Tuning Atomic Substitution in Two-Dimensional Atomic Crystals. ACS Nano, 2018, 12, 4853-4860.	7.3	75
81	Near Full-Composition-Range High-Quality GaAs _{1-x} Sb _x Nanowires Grown by Molecular-Beam Epitaxy. Nano Letters, 2017, 17, 622-630.	4.5	74
82	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
83	Liquid-Metal-Assisted Growth of Vertical GaSe/MoS ₂ n Heterojunctions for Sensitive Self-Driven Photodetectors. ACS Nano, 2021, 15, 10039-10047.	7.3	73
84	A Noble Metal Dichalcogenide for High-Performance Field-Effect Transistors and Broadband Photodetectors. Advanced Functional Materials, 2020, 30, 1907945.	7.8	72
85	CVD growth of perovskite/graphene films for high-performance flexible image sensor. Science Bulletin, 2020, 65, 343-349.	4.3	72
86	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
87	Doping-Induced Hydrogen-Bond Engineering in Polymeric Carbon Nitride To Significantly Boost the Photocatalytic H ₂ Evolution Performance. ACS Applied Materials & Interfaces, 2019, 11, 17341-17349.	4.0	71
88	Semiconductor Alloy Nanoribbon Lateral Heterostructures for High-Performance Photodetectors. Advanced Materials, 2014, 26, 2844-2849.	11.1	70
89	WO ₃ /WS ₂ Vertical Bilayer Heterostructures with High Photoluminescence Quantum Yield. Journal of the American Chemical Society, 2019, 141, 11754-11758.	6.6	69
90	Changeable position of SPR peak of Ag nanoparticles embedded in mesoporous SiO ₂ glass by annealing treatment. Applied Surface Science, 2003, 205, 323-328.	3.1	67

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91	Fabrication and photoluminescence of high-quality ternary CdSSe nanowires and nanoribbons. <i>Nanotechnology</i> , 2006, 17, 1083-1086.	1.3	67
92	Low-Threshold Nanowire Laser Based on Composition-Symmetric Semiconductor Nanowires. <i>Nano Letters</i> , 2013, 13, 1251-1256.	4.5	67
93	Band-Selective Infrared Photodetectors with Complete Composition Range InAs _x P _{1-x} Alloy Nanowires. <i>Advanced Materials</i> , 2014, 26, 7444-7449.	11.1	67
94	Color-Changeable Optical Transport through Se-Doped CdS 1D Nanostructures. <i>Nano Letters</i> , 2007, 7, 2970-2975.	4.5	65
95	Space-Confined Synthesis of 2D All-Inorganic CsPbI ₃ Perovskite Nanosheets for Multiphoton-Pumped Lasing. <i>Advanced Optical Materials</i> , 2018, 6, 1800879.	3.6	65
96	Ultrahigh-Performance Optoelectronics Demonstrated in Ultrathin Perovskite-Based Vertical Semiconductor Heterostructures. <i>ACS Nano</i> , 2019, 13, 7996-8003.	7.3	64
97	High-performance optoelectronic devices based on van der Waals vertical MoS ₂ /MoSe ₂ heterostructures. <i>Nano Research</i> , 2020, 13, 1053-1059.	5.8	63
98	Synthesis of Tower-like ZnO Structures and Visible Photoluminescence Origins of Varied-Shaped ZnO Nanostructures. <i>Journal of Physical Chemistry C</i> , 2007, 111, 7655-7660.	1.5	62
99	Vapor growth and interfacial carrier dynamics of high-quality CdS-CdSSe-CdS axial nanowire heterostructures. <i>Nano Energy</i> , 2017, 32, 28-35.	8.2	62
100	Ultrahigh Hole Mobility of Sn-Catalyzed GaSb Nanowires for High Speed Infrared Photodetectors. <i>Nano Letters</i> , 2019, 19, 5920-5929.	4.5	61
101	Asymmetric light propagation in composition-graded semiconductor nanowires. <i>Scientific Reports</i> , 2012, 2, 820.	1.6	60
102	Si-CdSSe Core/Shell Nanowires with Continuously Tunable Light Emission. <i>Nano Letters</i> , 2008, 8, 3413-3417.	4.5	58
103	Single-Crystalline Cu ₄ Bi ₄ S ₉ Nanoribbons: Facile Synthesis, Growth Mechanism, and Surface Photovoltaic Properties. <i>Chemistry of Materials</i> , 2011, 23, 1299-1305.	3.2	58
104	Crystal structure and electron transition underlying photoluminescence of methylammonium lead bromide perovskites. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7739-7745.	2.7	58
105	The optical properties of ZnO sheets electrodeposited on ITO glass. <i>Materials Letters</i> , 2007, 61, 2000-2003.	1.3	57
106	Preparation and Elastic Properties of Helical Nanotubes Obtained by Atomic Layer Deposition with Carbon Nanocoils as Templates. <i>Small</i> , 2010, 6, 910-914.	5.2	57
107	Preparation of nanosized particles of FeNi and FeCo alloy in solution. <i>Journal of Materials Science</i> , 2003, 38, 4581-4585.	1.7	56
108	High-Quality Alloyed Cd _x Se _{1-x} Whiskers as Waveguides with Tunable Stimulated Emission. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22313-22317.	1.2	56

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109	Wavelength-Tunable Mid-Infrared Lasing from Black Phosphorus Nanosheets. <i>Advanced Materials</i> , 2020, 32, e1808319.	11.1	56
110	Plasmonic Amplification with Ultra-High Optical Gain at Room Temperature. <i>Scientific Reports</i> , 2013, 3, 1967.	1.6	55
111	Bandgap-engineered GaAsSb alloy nanowires for near-infrared photodetection at 1.31 μm . <i>Semiconductor Science and Technology</i> , 2015, 30, 105033.	1.0	52
112	Nonvolatile MoTe ₂ Diodes for Optoelectronic Logics. <i>ACS Nano</i> , 2019, 13, 7216-7222.	7.3	52
113	High-responsivity two-dimensional p-Pb ₂ /n-WS ₂ vertical heterostructure photodetectors enhanced by photogating effect. <i>Materials Horizons</i> , 2019, 6, 1474-1480.	6.4	51
114	Cooperative excitonic quantum ensemble in perovskite-assembly superlattice microcavities. <i>Nature Communications</i> , 2020, 11, 329.	5.8	51
115	Origin of enhanced photocatalytic activity of F-doped CeO ₂ nanocubes. <i>Applied Surface Science</i> , 2016, 370, 427-432.	3.1	50
116	Nanolaser arrays based on individual waved CdS nanoribbons. <i>Laser and Photonics Reviews</i> , 2016, 10, 458-464.	4.4	49
117	Ultrahigh Quality Upconverted Single-Mode Lasing in Cesium Lead Bromide Spherical Microcavity. <i>Advanced Optical Materials</i> , 2018, 6, 1800391.	3.6	47
118	Robust and High Photoluminescence in WS ₂ Monolayer through In Situ Defect Engineering. <i>Advanced Functional Materials</i> , 2021, 31, 2105339.	7.8	47
119	Low threshold, single-mode laser based on individual CdS nanoribbons in dielectric DBR microcavity. <i>Nano Energy</i> , 2016, 30, 481-487.	8.2	46
120	Thermal Stability and Lasing of CdS Nanowires Coated by Amorphous Silica. <i>Small</i> , 2005, 1, 1058-1062.	5.2	45
121	Controllable Fabrication of High-Quality 6-Fold Symmetry-Branched CdS Nanostructures with ZnS Nanowires as Templates. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9253-9260.	1.5	45
122	Novel 3D flower-like Ag ₃ PO ₄ microspheres with highly enhanced visible light photocatalytic activity. <i>Materials Letters</i> , 2014, 116, 209-211.	1.3	45
123	Few-layer WO ₃ nanosheets for high-performance UV-photodetectors. <i>Materials Letters</i> , 2015, 148, 184-187.	1.3	45
124	Strategy to boost catalytic activity of polymeric carbon nitride: synergistic effect of controllable <i>in situ</i> surface engineering and morphology. <i>Nanoscale</i> , 2019, 11, 16393-16405.	2.8	45
125	Controlled Synthesis and Photonics Applications of Metal Halide Perovskite Nanowires. <i>Small Methods</i> , 2019, 3, 1800294.	4.6	45
126	Interfacial charge modulation: carbon quantum dot implanted carbon nitride double-deck nanoframes for robust visible-light photocatalytic tetracycline degradation. <i>Nanoscale</i> , 2020, 12, 3135-3145.	2.8	45

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127	Hierarchical Self-assembly of Well-Defined Louver-Like P-Doped Carbon Nitride Nanowire Arrays with Highly Efficient Hydrogen Evolution. <i>Nano-Micro Letters</i> , 2020, 12, 52.	14.4	45
128	Up-conversion luminescence and optical temperature-sensing properties of Er ³⁺ -doped perovskite Na _{0.5} Bi _{0.5} TiO ₃ nanocrystals. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 98, 28-31.	1.9	44
129	Room temperature near unity spin polarization in 2D Van der Waals heterostructures. <i>Nature Communications</i> , 2020, 11, 4442.	5.8	44
130	High Gain Submicrometer Optical Amplifier at Near-Infrared Communication Band. <i>Physical Review Letters</i> , 2015, 115, 027403.	2.9	43
131	Probing and Manipulating Carrier Interlayer Diffusion in van der Waals Multilayer by Constructing Type-I Heterostructure. <i>Nano Letters</i> , 2019, 19, 7217-7225.	4.5	42
132	Epitaxial synthesis of ultrathin In ₂ Se ₃ /MoS ₂ heterostructures with high visible/near-infrared photoresponse. <i>Nanoscale</i> , 2020, 12, 6480-6488.	2.8	42
133	Double-Gate MoS ₂ Field-Effect Transistors with Full-Range Tunable Threshold Voltage for Multifunctional Logic Circuits. <i>Advanced Materials</i> , 2021, 33, e2101036.	11.1	42
134	Nonlinear photoluminescence in monolayer WS ₂ : parabolic emission and excitation fluence-dependent recombination dynamics. <i>Nanoscale</i> , 2017, 9, 7235-7241.	2.8	41
135	Phonon-assisted stimulated emission from single CdS nanoribbons at room temperature. <i>Applied Physics Letters</i> , 2006, 88, 173102.	1.5	40
136	Heteroepitaxial Growth of GaSb Nanotrees with an Ultra-Low Reflectivity in a Broad Spectral Range. <i>Nano Letters</i> , 2012, 12, 1799-1805.	4.5	39
137	Spatially composition-modulated two-dimensional WS ₂ xSe _{2(1-x)} nanosheets. <i>Nanoscale</i> , 2017, 9, 4707-4712.	2.8	39
138	Strong interlayer hybridization in the aligned SnS ₂ /WSe ₂ hetero-bilayer structure. <i>Npj 2D Materials and Applications</i> , 2019, 3, .	3.9	39
139	Formation and optical properties of ZnO:ZnFe ₂ O ₄ superlattice microwires. <i>Nano Research</i> , 2010, 3, 326-338.	5.8	38
140	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{Ag} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn mathvariant="bold"} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{PO} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn mathvariant="bold"} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \text{Semiconductor Photocatalyst: Possibilities and Challenges. } \langle \text{mml:mtext} \rangle \text{Journal of Nanomaterials, 2013, 2013, 1-8.}$	11.5	38
141	Visualizing Carrier Transport in Metal Halide Perovskite Nanoplates via Electric Field Modulated Photoluminescence Imaging. <i>Nano Letters</i> , 2018, 18, 3024-3031.	4.5	38
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