

# Di Wu

## List of Publications by Year in descending order

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183  
papers

12,644  
citations

23500

58  
h-index

26548

107  
g-index

187  
all docs

187  
docs citations

187  
times ranked

11350  
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust frequency-upconversion lasing operated at 400 K from inorganic perovskites microcavity. Nano Research, 2022, 15, 492-501.	5.8	9
2	Emerging new-generation white light-emitting diodes based on luminescent lead-free halide perovskites and perovskite derivatives. Nano Select, 2022, 3, 280-297.	1.9	10
3	Boosting the Activity and Stability with Dual-Metal Couplings for Li-O <sub>2</sub> Battery. Energy and Environmental Materials, 2022, 5, 918-927.	7.3	11
4	High-Accuracy and Broadband Wavelength Sensor with Detection Region Ranging from Deep Ultraviolet to Near Infrared Light. Advanced Optical Materials, 2022, 10, 2101735.	3.6	4
5	Optimal Design of a Small-Molecule Crowding Electrolyte and Molecular Dynamics Simulation of an Electrode-Electrolyte Interface for Aqueous Supercapacitors with a Wide Operating Temperature Range. ACS Applied Energy Materials, 2022, 5, 355-366.	2.5	6
6	A UV to NIR Si Wavelength Sensor With Simple Geometry and Good Resolution. IEEE Transactions on Electron Devices, 2022, 69, 2457-2461.	1.6	3
7	<i>In Situ</i> Fabrication of PdSe <sub>2</sub> /GaN Schottky Junction for Polarization-Sensitive Ultraviolet Photodetection with High Dichroic Ratio. ACS Nano, 2022, 16, 5545-5555.	7.3	139
8	Mn and Cu codoped Cs <sub>2</sub> ZnBr <sub>4</sub> metal halide with multiexcitonic emission toward anti-counterfeiting. Journal of Physics Condensed Matter, 2022, 34, 204009.	0.7	10
9	Spectral Engineering of InSe Nanobelts for Full-Color Imaging by Tailoring the Thickness. Journal of Physical Chemistry Letters, 2022, 13, 2668-2673.	2.1	3
10	Polymer additive engineering of K <sub>2</sub> CuBr <sub>3</sub> nanocrystalline films to achieve efficient and stable deep-blue emission. JPhys Photonics, 2022, 4, 014001.	2.2	1
11	Toward eco-friendly and stable halide perovskite-inspired materials for light-emitting devices applications by dimension classification: Recent advances and opportunities. EcoMat, 2022, 4, .	6.8	6
12	Highly sensitive filterless near-infrared wavelength sensors with two self-driven MLG/Ge heterojunctions. Journal of Materials Chemistry C, 2022, 10, 8474-8480.	2.7	1
13	Non-Ultrawide Bandgap Semiconductor GaSe Nanobelts for Sensitive Deep Ultraviolet Light Photodetector Application. Small, 2022, 18, e2200594.	5.2	13
14	Selective Chemical Vapor Deposition Growth of WS <sub>2</sub> /MoS <sub>2</sub> Vertical and Lateral Heterostructures on Gold Foils. Nanomaterials, 2022, 12, 1696.	1.9	2
15	Regulating the Singlet and Triplet Emission of Sb <sup>3+</sup> Ions to Achieve Single-Component White-Light Emitter with Record High Color-Rendering Index and Stability. Nano Letters, 2022, 22, 5046-5054.	4.5	43
16	In-situ prepared WSe <sub>2</sub> /Si 2D-3D vertical heterojunction for high performance self-driven photodetector. Ceramics International, 2022, 48, 29722-29729.	2.3	10
17	Ultra-Sensitive and Low-Power-Consumption Organic Phototransistor Enables Nighttime Illumination Perception for Bionic Mesopic Vision. Laser and Photonics Reviews, 2022, 16, .	4.4	10
18	Ultraviolet Photodetectors Based on Nanometer-Thick Films of the Narrow Band Gap Semiconductor PbS. ACS Applied Nano Materials, 2022, 5, 8894-8901.	2.4	1

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19	Carbazole-Containing Polymer-Assisted Trap Passivation and Hole-Injection Promotion for Efficient and Stable CsCu <sub>2</sub> I <sub>3</sub> -Based Yellow LEDs. <i>Advanced Science</i> , 2022, 9, .	5.6	32
20	Sensitive Silicon Nanowire Ultraviolet B Photodetector Induced by Leakage Mode Resonances. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 32341-32349.	4.0	4
21	High Color-Rendering Index and Stable White Light-Emitting Diodes by Assembling Two Broadband Emissive Self-Trapped Excitons. <i>Advanced Materials</i> , 2021, 33, e2001367.	11.1	162
22	Recent advances toward environment-friendly photodetectors based on lead-free metal halide perovskites and perovskite derivatives. <i>Materials Horizons</i> , 2021, 8, 1367-1389.	6.4	46
23	A defect-induced broadband photodetector based on WS <sub>2</sub> /pyramid Si 2D/3D mixed-dimensional heterojunction with a light confinement effect. <i>Nanoscale</i> , 2021, 13, 13550-13557.	2.8	48
24	Two-dimensional Ti <sub>3</sub> C <sub>2</sub> MXene-based nanostructures for emerging optoelectronic applications. <i>Materials Horizons</i> , 2021, 8, 2929-2963.	6.4	37
25	Dual-source vapor-processed blue-emissive cesium copper iodine microplatelets with high crystallinity and stability. <i>Journal of Materials Chemistry C</i> , 2021, 9, 12535-12544.	2.7	10
26	Recent Advances and Opportunities of Lead-Free Perovskite Nanocrystal for Optoelectronic Application. <i>Energy Material Advances</i> , 2021, 2021, .	4.7	43
27	Fabrication of Addressable Perovskite Film Arrays for High-Performance Photodetection and Real-Time Image Sensing Application. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2930-2936.	2.1	23
28	Highly sensitive solar-blind deep ultraviolet photodetector based on graphene/PtSe <sub>2</sub> /Ga <sub>2</sub> O <sub>3</sub> 2D/3D Schottky junction with ultrafast speed. <i>Nano Research</i> , 2021, 14, 1973-1979.	5.8	152
29	Stable and Self-Powered Solar-Blind Ultraviolet Photodetectors Based on a Cs <sub>3</sub> Cu <sub>2</sub> I <sub>5</sub> /Ga <sub>2</sub> O <sub>3</sub> Heterojunction Prepared by Dual-Source Vapor Codeposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 15409-15419.	4.0	55
30	Stable and ultraviolet-enhanced broadband photodetectors based on Si nanowire arrays-Cs <sub>3</sub> Cu <sub>2</sub> I <sub>5</sub> nanocrystals hybrid structures. <i>Materials Today Physics</i> , 2021, 18, 100398.	2.9	13
31	Ultrabroadband and High-Detectivity Photodetector Based on WS <sub>2</sub> /Ge Heterojunction through Defect Engineering and Interface Passivation. <i>ACS Nano</i> , 2021, 15, 10119-10129.	7.3	252
32	Sensitive Photodetector Arrays Based on Patterned CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> Single Crystal Microplate for Image Sensing Application. <i>Advanced Optical Materials</i> , 2021, 9, 2100371.	3.6	14
33	Self-powered ultraviolet-blue photodetector based on GaN/double halide perovskite/NiO heterostructure. <i>Journal of Materials Science</i> , 2021, 56, 13633-13645.	1.7	7
34	Stable zero-dimensional cesium indium bromide hollow nanocrystals emitting blue light from self-trapped excitons. <i>Nano Today</i> , 2021, 38, 101153.	6.2	33
35	Highly Sensitive Ultraviolet and Visible Wavelength Sensor Composed of Two Identical Perovskite Nanofilm Photodetectors. <i>Small</i> , 2021, 17, e2102987.	5.2	10
36	Strong Interlayer Transition in Few-Layer InSe/PdSe <sub>2</sub> van der Waals Heterostructure for Near-Infrared Photodetection. <i>Advanced Functional Materials</i> , 2021, 31, 2104143.	7.8	69

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37	Moisture-Induced Reversible Phase Conversion of Cesium Copper Iodine Nanocrystals Enables Advanced Anti-Counterfeiting. <i>Advanced Functional Materials</i> , 2021, 31, 2105771.	7.8	92
38	Fabrication of 2D PdSe <sub>2</sub> /3D CdTe Mixed-Dimensional van der Waals Heterojunction for Broadband Infrared Detection. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 41791-41801.	4.0	30
39	Highly-efficient and stable photocatalytic activity of lead-free Cs <sub>2</sub> AgInCl <sub>6</sub> double perovskite for organic pollutant degradation. <i>Journal of Colloid and Interface Science</i> , 2021, 596, 376-383.	5.0	47
40	Filterless Discrimination of Wavelengths in the Range from Ultraviolet to Near-Infrared Light Using Two PdSe <sub>2</sub> /Thin Si/PdSe <sub>2</sub> Heterojunction Photodetectors. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 43273-43281.	4.0	7
41	Fluorene-terminated hole transporting materials with a spiro[fluorene-9,9'-xanthene] core for perovskite solar cells. <i>New Journal of Chemistry</i> , 2021, 45, 5497-5502.	1.4	7
42	White Light-Emitting Diodes: High Color-Rending Index and Stable White Light-Emitting Diodes by Assembling Two Broadband Emissive Self-Trapped Excitons (Adv. Mater. 2/2021). <i>Advanced Materials</i> , 2021, 33, 2170010.	11.1	5
43	Detection of wavelength in the range from ultraviolet to near infrared light using two parallel PtSe <sub>2</sub> /thin Si Schottky junctions. <i>Materials Horizons</i> , 2021, 8, 1976-1984.	6.4	13
44	Realizing the enhanced cyclability of a cactus-like NiCo <sub>2</sub> O <sub>4</sub> nanocrystal anode fabricated by molecular layer deposition. <i>Dalton Transactions</i> , 2021, 50, 511-519.	1.6	3
45	Vertically aligned 1T-phase PtSe <sub>2</sub> on flexible carbon cloth for efficient and stable hydrogen evolution reaction. <i>Journal of Materials Chemistry C</i> , 2021, 9, 9524-9531.	2.7	8
46	Room-temperature synthesis of blue-emissive zero-dimensional cesium indium halide quantum dots for temperature-stable down-conversion white light-emitting diodes with a half-lifetime of 186 h. <i>Materials Horizons</i> , 2021, 8, 3432-3442.	6.4	18
47	Antisolvent-Processed One-Dimensional Ternary Rubidium Copper Bromine Microwires for Sensitive and Flexible Ultraviolet Photodetectors. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 49007-49016.	4.0	12
48	Leaky Mode Resonance-Induced Sensitive Ultraviolet Photodetector Composed of Graphene/Small Diameter Silicon Nanowire Array Heterojunctions. <i>ACS Nano</i> , 2021, 15, 16729-16737.	7.3	26
49	Polymerized hybrid Hf-based hydroquinone/Al <sub>2</sub> O <sub>3</sub> bilayer structure by molecular/atomic layer deposition for non-volatile resistive random access memory. <i>APL Materials</i> , 2021, 9, 121110.	2.2	6
50	Photovoltaic broadband photodetectors based on CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> thin films grown on silicon nanoporous pillar array. <i>Solar Energy Materials and Solar Cells</i> , 2020, 204, 110230.	3.0	21
51	Water-induced fluorescence enhancement of lead-free cesium bismuth halide quantum dots by 130% for stable white light-emitting devices. <i>Nanoscale</i> , 2020, 12, 3637-3645.	2.8	118
52	Cation exchange synthesis of two-dimensional vertical Cu <sub>2</sub> S/CdS heterojunctions for photovoltaic device applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 789-796.	5.2	23
53	Highly stable and spectrum-selective ultraviolet photodetectors based on lead-free copper-based perovskites. <i>Materials Horizons</i> , 2020, 7, 530-540.	6.4	164
54	Ultrahigh Speed and Broadband Few-Layer MoTe <sub>2</sub> /Si <sub>2</sub> D <sub>8</sub> 3D Heterojunction-Based Photodiodes Fabricated by Pulsed Laser Deposition. <i>Advanced Functional Materials</i> , 2020, 30, 1907951.	7.8	119

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55	Simulation of Biologic Synapse Through Organic-Inorganic Hybrid Memristors Using Novel Ti-Based Maleic Acid/TiO <sub>2</sub> Ultrathin Films. IEEE Electron Device Letters, 2020, 41, 155-158.	2.2	14
56	Ultrathin Polymer Nanofibrils for Solar-Blind Deep Ultraviolet Light Photodetectors Application. Nano Letters, 2020, 20, 644-651.	4.5	38
57	Electrically-Driven Violet Light-Emitting Devices Based on Highly Stable Lead-Free Perovskite Cs <sub>3</sub> Sb <sub>2</sub> Br <sub>9</sub> Quantum Dots. ACS Energy Letters, 2020, 5, 385-394.	8.8	169
58	Direct Tellurization of Pt to Synthesize 2D PtTe <sub>2</sub> for High-Performance Broadband Photodetectors and NIR Image Sensors. ACS Applied Materials & Interfaces, 2020, 12, 53921-53931.	4.0	48
59	Strategy of All-Inorganic Cs <sub>3</sub> Cu <sub>2</sub> I <sub>5</sub> /Si-Core/Shell Nanowire Heterojunction for Stable and Ultraviolet-Enhanced Broadband Photodetectors with Imaging Capability. ACS Applied Materials & Interfaces, 2020, 12, 37363-37374.	4.0	51
60	Atomic-Scale Interface Engineering for Constructing p-CuPc/n-CdS Core-Shell Heterojunctions toward Light-Harvesting Application. ACS Applied Energy Materials, 2020, 3, 8765-8773.	2.5	2
61	Graphene-Quantum-Dots-Induced Centimeter-Sized Growth of Monolayer Organic Crystals for High-Performance Transistors. Advanced Materials, 2020, 32, e2003315.	11.1	27
62	Ultrastable Lead-Free Double Perovskite Warm-White Light-Emitting Devices with a Lifetime above 1000 Hours. ACS Applied Materials & Interfaces, 2020, 12, 46330-46339.	4.0	61
63	High-performance light trajectory tracking and image sensing devices based on a $\text{In}_2\text{Se}_3/\text{GaAs}$ heterostructure. Journal of Materials Chemistry C, 2020, 8, 13762-13769.	2.7	11
64	A solution-processed ternary copper halide thin films for air-stable and deep-ultraviolet-sensitive photodetector. Nanoscale, 2020, 12, 17213-17221.	2.8	55
65	Van der Waals Epitaxial Growth of Mosaic-Like 2D Platinum Ditelluride Layers for Room-Temperature Mid-Infrared Photodetection up to 10.6 $\mu\text{m}$ . Advanced Materials, 2020, 32, e2004412.	11.1	202
66	Colloidal Synthesis of Ternary Copper Halide Nanocrystals for High-Efficiency Deep-Blue Light-Emitting Diodes with a Half-Lifetime above 100 h. Nano Letters, 2020, 20, 3568-3576.	4.5	200
67	Stable Yellow Light-Emitting Devices Based on Ternary Copper Halides with Broadband Emissive Self-Trapped Excitons. ACS Nano, 2020, 14, 4475-4486.	7.3	199
68	Controllable synthesis of Cs <sub>x</sub> Pb <sub>y</sub> Br <sub>z</sub> -based perovskites by a polar solvent-triggered transformation method and its application as an invisible security ink. Journal of Materials Science, 2020, 55, 6826-6833.	1.7	5
69	Fabrication of MAPbBr <sub>3</sub> Single Crystal $\pi$ -n Photodiode and $n$ - $\pi$ Phototriode for Sensitive Light Detection Application. Advanced Functional Materials, 2020, 30, 2001033.	7.8	40
70	Highly Sensitive Narrowband Si Photodetector With Peak Response at Around 1060 nm. IEEE Transactions on Electron Devices, 2020, 67, 3211-3214.	1.6	26
71	Controlled 2D growth of organic semiconductor crystals by suppressing "coffee-ring" effect. Nano Research, 2020, 13, 2478-2484.	5.8	11
72	Boron doping and structure control of carbon materials for supercapacitor application: the effect of freeze-drying and air-drying for porosity engineering. Journal of Solid State Electrochemistry, 2020, 24, 641-654.	1.2	17

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73	An ultrasensitive self-driven broadband photodetector based on a 2D-WS <sub>2</sub> /GaAs type-II Zener heterojunction. <i>Nanoscale</i> , 2020, 12, 4435-4444.	2.8	56
74	Mixed-dimensional PdSe <sub>2</sub> /SiNWA heterostructure based photovoltaic detectors for self-driven, broadband photodetection, infrared imaging and humidity sensing. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3632-3642.	5.2	158
75	Solution-processed one-dimensional CsCu <sub>2</sub> I <sub>3</sub> nanowires for polarization-sensitive and flexible ultraviolet photodetectors. <i>Materials Horizons</i> , 2020, 7, 1613-1622.	6.4	120
76	Construction of mixed-dimensional WS <sub>2</sub> /Si heterojunctions for high-performance infrared photodetection and imaging applications. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6877-6882.	2.7	25
77	Fabrication of PdSe <sub>2</sub> /GaAs heterojunction for sensitive near-infrared photovoltaic detector and image sensor application. <i>Chinese Journal of Chemical Physics</i> , 2020, 33, 733-742.	0.6	7
78	Research Progress of Capacitive Flexible Pressure Sensors. <i>Lecture Notes in Electrical Engineering</i> , 2020, , 533-541.	0.3	0
79	Multilayered PdSe <sub>2</sub> /Perovskite Schottky Junction for Fast, Self-Powered, Polarization-Sensitive, Broadband Photodetectors, and Image Sensor Application. <i>Advanced Science</i> , 2019, 6, 1901134.	5.6	308
80	Synergetic Effect of the Surfactant and Silica Coating on the Enhanced Emission and Stability of Perovskite Quantum Dots for Anticounterfeiting. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 28013-28022.	4.0	88
81	Highly Polarization-Sensitive, Broadband, Self-Powered Photodetector Based on Graphene/PdSe <sub>2</sub> /Germanium Heterojunction. <i>ACS Nano</i> , 2019, 13, 9907-9917.	7.3	420
82	Light Confinement Effect Induced Highly Sensitive, Self-Driven Near-Infrared Photodetector and Image Sensor Based on Multilayer PdSe <sub>2</sub> /Pyramid Si Heterojunction. <i>Small</i> , 2019, 15, e1903831.	5.2	51
83	Sensitive Deep Ultraviolet Photodetector and Image Sensor Composed of Inorganic Lead-Free Cs <sub>3</sub> Cu <sub>2</sub> I <sub>5</sub> Perovskite with Wide Bandgap. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5343-5350.	2.1	171
84	High-Performance Nanofloating Gate Memory Based on Lead Halide Perovskite Nanocrystals. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 24367-24376.	4.0	23
85	Dual-Band, High-Performance Phototransistors from Hybrid Perovskite and Organic Crystal Array for Secure Communication Applications. <i>ACS Nano</i> , 2019, 13, 5910-5919.	7.3	72
86	Sodium Doping-Enhanced Emission Efficiency and Stability of CsPbBr <sub>3</sub> Nanocrystals for White Light-Emitting Devices. <i>Chemistry of Materials</i> , 2019, 31, 3917-3928.	3.2	141
87	Influence of the pore size on the sensitivity of flexible and wearable pressure sensors based on porous Ecoflex dielectric layers. <i>Materials Research Express</i> , 2019, 6, 066304.	0.8	27
88	Ultrastable Lead-Free Double Perovskite Photodetectors with Imaging Capability. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900188.	1.9	62
89	A self-powered high-performance photodetector based on a MoS <sub>2</sub> /GaAs heterojunction with high polarization sensitivity. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3817-3821.	2.7	83
90	Growth Mechanism, Ambient Stability, and Charge Trapping Ability of Ti-Based Maleic Acid Hybrid Films by Molecular Layer Deposition. <i>Langmuir</i> , 2019, 35, 3020-3030.	1.6	10

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91	Synthesis of large-area 2D WS <sub>2</sub> films and fabrication of a heterostructure for self-powered ultraviolet photodetection and imaging applications. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12121-12126.	2.7	54
92	In-situ fabrication of PtSe <sub>2</sub> /GaN heterojunction for self-powered deep ultraviolet photodetector with ultrahigh current on/off ratio and detectivity. <i>Nano Research</i> , 2019, 12, 183-189.	5.8	189
93	Photodetectors: Controlled Synthesis of 2D Palladium Diselenide for Sensitive Photodetector Applications ( <i>Adv. Funct. Mater.</i> 1/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970005.	7.8	13
94	Controlled Synthesis of 2D Palladium Diselenide for Sensitive Photodetector Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1806878.	7.8	286
95	In Situ Fabrication of 2D WS <sub>2</sub> /Si Type-II Heterojunction for Self-Powered Broadband Photodetector with Response up to Mid-Infrared. <i>ACS Photonics</i> , 2019, 6, 565-572.	3.2	221
96	Fabrication of morphology-controlled and highly-crystallized perovskite microwires for long-term stable photodetectors. <i>Solar Energy Materials and Solar Cells</i> , 2019, 191, 275-282.	3.0	36
97	Localized Surface Plasmon Enhanced All-Inorganic Perovskite Quantum Dot Light-Emitting Diodes Based on Coaxial Core/Shell Heterojunction Architecture. <i>Advanced Functional Materials</i> , 2018, 28, 1707031.	7.8	125
98	Ultrafast and sensitive photodetector based on a PtSe <sub>2</sub> /silicon nanowire array heterojunction with a multiband spectral response from 200 to 1550 nm. <i>NPG Asia Materials</i> , 2018, 10, 352-362.	3.8	187
99	Atomically thin noble metal dichalcogenide: a broadband mid-infrared semiconductor. <i>Nature Communications</i> , 2018, 9, 1545.	5.8	367
100	A library of atomically thin metal chalcogenides. <i>Nature</i> , 2018, 556, 355-359.	13.7	1,225
101	Photovoltaic high-performance broadband photodetector based on MoS <sub>2</sub> /Si nanowire array heterojunction. <i>Solar Energy Materials and Solar Cells</i> , 2018, 182, 272-280.	3.0	67
102	Humidity sensing properties of the hydrothermally synthesized WS <sub>2</sub> -modified SnO <sub>2</sub> hybrid nanocomposite. <i>Applied Surface Science</i> , 2018, 447, 325-330.	3.1	43
103	A room-temperature near-infrared photodetector based on a MoS <sub>2</sub> /CdTe heterojunction with a broadband response up to 1700 nm. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4861-4865.	2.7	81
104	The ultra-high NO <sub>2</sub> response of ultra-thin WS <sub>2</sub> nanosheets synthesized by hydrothermal and calcination processes. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 789-796.	4.0	130
105	Strategy of Solution-Processed All-Inorganic Heterostructure for Humidity/Temperature-Stable Perovskite Quantum Dot Light-Emitting Diodes. <i>ACS Nano</i> , 2018, 12, 1462-1472.	7.3	331
106	Controllable Vapor-Phase Growth of Inorganic Perovskite Microwire Networks for High-Efficiency and Temperature-Stable Photodetectors. <i>ACS Photonics</i> , 2018, 5, 2524-2532.	3.2	100
107	ZnSe nanoribbon-Si nanowire crossed p-n nano-heterojunctions: Electrical characterizations and photovoltaic applications. <i>Solar Energy Materials and Solar Cells</i> , 2018, 176, 411-417.	3.0	2
108	High-performance self-powered deep ultraviolet photodetector based on MoS <sub>2</sub> /GaN heterojunction. <i>Journal of Materials Chemistry C</i> , 2018, 6, 299-303.	2.7	178

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109	Silica coating enhances the stability of inorganic perovskite nanocrystals for efficient and stable down-conversion in white light-emitting devices. <i>Nanoscale</i> , 2018, 10, 20131-20139.	2.8	147
110	A self-powered solar-blind photodetector based on a MoS <sub>2</sub> /Ga <sub>2</sub> O <sub>3</sub> heterojunction. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10982-10986.	2.7	166
111	Ultra-highly sensitive, low hysteric and flexible pressure sensor based on porous MWCNTs/Ecoflex elastomer composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 20978-20983.	1.1	32
112	Hole-Injection Layer-Free Perovskite Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 32289-32297.	4.0	28
113	Highly Stable Perovskite Photodetector Based on Vapor-Processed Micrometer-Scale CsPbBr <sub>3</sub> Microplatelets. <i>Chemistry of Materials</i> , 2018, 30, 6744-6755.	3.2	89
114	High-efficiency and air-stable photodetectors based on lead-free double perovskite Cs <sub>2</sub> AgBiBr <sub>6</sub> thin films. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7982-7988.	2.7	150
115	Luminescence: Localized Surface Plasmon Enhanced All-Inorganic Perovskite Quantum Dot Light-Emitting Diodes Based on Coaxial Core/Shell Heterojunction Architecture ( <i>Adv. Funct. Mater.</i> )	11.0	314
116	Fabrication and Characterization of ZnO Nano-Clips by the Polyol-Mediated Process. <i>Nanoscale Research Letters</i> , 2018, 13, 47.	3.1	14
117	Design of 2D Layered PtSe <sub>2</sub> Heterojunction for the High-Performance, Room-Temperature, Broadband, Infrared Photodetector. <i>ACS Photonics</i> , 2018, 5, 3820-3827.	3.2	144
118	Effect of CH <sub>3</sub> NH <sub>3</sub> I concentration on the physical properties of solution-processed organometal halide perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> . <i>Journal of Alloys and Compounds</i> , 2017, 706, 274-279.	2.8	22
119	Controllable synthesis of ternary Zn <sub>x</sub> Se <sub>1-x</sub> nanowires with tunable band-gaps for optoelectronic applications. <i>Journal of Alloys and Compounds</i> , 2017, 708, 623-627.	2.8	13
120	High-response NO <sub>2</sub> resistive gas sensor based on bilayer MoS <sub>2</sub> grown by a new two-step chemical vapor deposition method. <i>Journal of Alloys and Compounds</i> , 2017, 725, 253-259.	2.8	80
121	Porous NiO hollow quasi-nanospheres derived from a new metal-organic framework template as high-performance anode materials for lithium ion batteries. <i>Ionics</i> , 2017, 23, 3273-3280.	1.2	53
122	High Mobility 2D Palladium Diselenide Field-Effect Transistors with Tunable Ambipolar Characteristics. <i>Advanced Materials</i> , 2017, 29, 1602969.	11.1	251
123	High-Efficiency and Air-Stable Perovskite Quantum Dots Light-Emitting Diodes with an All-Inorganic Heterostructure. <i>Nano Letters</i> , 2017, 17, 313-321.	4.5	402
124	Deep oxidative desulfurization catalyzed by (NH <sub>4</sub> ) <sub>x</sub> H <sub>4</sub> PMo <sub>11</sub> VO <sub>40</sub> (x = 1, 2, 3, 4) using O <sub>2</sub> as an oxidant. <i>RSC Advances</i> , 2017, 7, 48454-48460.	1.7	20
125	Overexpression of Arabidopsis ICR1 gene affects vegetative growth and anthesis. <i>Biologia (Poland)</i> , 2017, 72, 869-876.	0.8	0
126	Construction of MoS <sub>2</sub> /Si nanowire array heterojunction for ultrahigh-sensitivity gas sensor. <i>Nanotechnology</i> , 2017, 28, 435503.	1.3	40



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127	Remarkable lignin degradation in paper wastewaters over Fe <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts using the catalytic wet peroxide oxidation method. RSC Advances, 2017, 7, 37487-37494.	1.7	12
128	Dual-mode high-sensitivity humidity sensor based on MoS <sub>2</sub> /Si nanowires array heterojunction. Journal of Alloys and Compounds, 2017, 726, 632-637.	2.8	25
129	Polarized emission effect realized in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite nanocrystals. Journal of Materials Chemistry C, 2017, 5, 8699-8706.	2.7	37
130	Vapor-Assisted Solution Approach for High-Quality Perovskite CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> Thin Films for High-Performance Green Light-Emitting Diode Applications. ACS Applied Materials & Interfaces, 2017, 9, 42893-42904.	4.0	46
131	Interfacial, Electrical, and Band Alignment Characteristics of HfO <sub>2</sub> /Ge Stacks with In Situ-Formed SiO <sub>2</sub> Interlayer by Plasma-Enhanced Atomic Layer Deposition. Nanoscale Research Letters, 2017, 12, 370.	3.1	8
132	High-performance perovskite photodetectors based on solution-processed all-inorganic CsPbBr <sub>3</sub> thin films. Journal of Materials Chemistry C, 2017, 5, 8355-8360.	2.7	182
133	Two-terminal nonvolatile resistive switching memory devices based on n-CdSe NR/p-Si heterojunctions. Journal of Alloys and Compounds, 2017, 695, 1653-1657.	2.8	6
134	Metal-Semiconductor Phase Transition in WSe <sub>2</sub> (1-x)Te <sub>2x</sub> Monolayer. Advanced Materials, 2017, 29, 1603991.	11.1	123
135	Fabrication of p-type ZnTe NW/In Schottky diodes for high-speed photodetectors. Journal of Materials Science: Materials in Electronics, 2017, 28, 1720-1725.	1.1	4
136	Heterojunctions Based on II-VI Compound Semiconductor One-Dimensional Nanostructures and Their Optoelectronic Applications. Crystals, 2017, 7, 307.	1.0	23
137	High-performance MoS <sub>2</sub> /Si heterojunction broadband photodetectors from deep ultraviolet to near infrared. Optics Letters, 2017, 42, 3335.	1.7	64
138	Boron(III)-Containing Donor-Acceptor Compound with Goldlike Reflective Behavior for Organic Resistive Memory Devices. Angewandte Chemie, 2016, 128, 3711-3715.	1.6	28
139	Gate-controllable photoresponse of nitrogen-doped p-type ZnSe nanoribbons top-gate FETs. Materials Letters, 2016, 164, 84-88.	1.3	12
140	Synthesis, Electrochemistry, and Photophysical Studies of Ruthenium(II) Polypyridine Complexes with D-A Type Ligands and Their Application Studies as Organic Memories. Chemistry - A European Journal, 2016, 22, 14013-14021.	1.7	17
141	An efficient and recyclable polyoxometalate-based hybrid catalyst for heterogeneous deep oxidative desulfurization of dibenzothiophene derivatives with oxygen. RSC Advances, 2016, 6, 79520-79525.	1.7	14
142	Near-infrared random lasing realized in a perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> thin film. Journal of Materials Chemistry C, 2016, 4, 8373-8379.	2.7	57
143	Boron(III)-Containing Donor-Acceptor Compound with Goldlike Reflective Behavior for Organic Resistive Memory Devices. Angewandte Chemie - International Edition, 2016, 55, 3647-3651.	7.2	86
144	Facile synthesis of 3-amino-5-aryl-1,2,4-oxadiazoles via PIDA-mediated intramolecular oxidative cyclization. RSC Advances, 2016, 6, 54277-54280.	1.7	9

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145	Construction of ZnTe nanowires/Si $\mu$ n heterojunctions for electronic and optoelectronic applications. <i>Journal of Alloys and Compounds</i> , 2016, 661, 231-236.	2.8	11
146	Rhodium(I) Complexes of Tridentate $\pi$ -Donor Ligands and Their Supramolecular Assembly Studies. <i>Inorganic Chemistry</i> , 2016, 55, 3685-3691.	1.9	24
147	High-performance planar green light-emitting diodes based on a PEDOT:PSS/CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> /ZnO sandwich structure. <i>Nanoscale</i> , 2016, 8, 10035-10042.	2.8	93
148	Improved Electrical Transport and Electroluminescence Properties of p-ZnO/n-Si Heterojunction via Introduction of Patterned SiO <sub>2</sub> Intermediate Layer. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4504-4510.	1.5	18
149	Semi-transparent all-oxide ultraviolet light-emitting diodes based on ZnO/NiO-core/shell nanowires. <i>Nanoscale</i> , 2016, 8, 9997-10003.	2.8	42
150	Robust Anti-Collective Noise Quantum Secure Direct Dialogue Using Logical Bell States. <i>International Journal of Theoretical Physics</i> , 2016, 55, 457-469.	0.5	7
151	Electrically pumped ultraviolet lasing in polygonal hollow microresonators: investigation on optical cavity effect. <i>Optics Letters</i> , 2016, 41, 5608.	1.7	5
152	Controlled Synthesis of Organic/Inorganic van der Waals Solid for Tunable Light-Matter Interactions. <i>Advanced Materials</i> , 2015, 27, 7800-7808.	11.1	109
153	A Solution-Processable Donor-Acceptor Compound Containing Boron(III) Centers for Small-Molecule-Based High-Performance Ternary Electronic Memory Devices. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10569-10573.	7.2	113
154	HfO <sub>2</sub> /GeO <sub>2</sub> /Ge gate stacks with sub-nanometer capacitance equivalent thickness and low interface trap density by in situ NH <sub>3</sub> plasma pretreatment. <i>Applied Surface Science</i> , 2015, 325, 13-19.	3.1	7
155	Growth characteristics of Ti-based fumaric acid hybrid thin films by molecular layer deposition. <i>Dalton Transactions</i> , 2015, 44, 14782-14792.	1.6	24
156	Organic Memory Devices Based on a Bis-Cyclometalated Alkynylgold(III) Complex. <i>Journal of the American Chemical Society</i> , 2015, 137, 4654-4657.	6.6	92
157	Construction of crossed heterojunctions from p-ZnTe and n-CdSe nanoribbons and their photoresponse properties. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6547.	2.7	16
158	Controlled Growth of Atomically Thin In <sub>2</sub> Se <sub>3</sub> Flakes by van der Waals Epitaxy. <i>Journal of the American Chemical Society</i> , 2013, 135, 13274-13277.	6.6	192
159	Large conductance switching nonvolatile memories based on p-ZnS nanoribbon/n-Si heterojunction. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1238-1244.	2.7	10
160	Ultrahigh Mobility of $\mu$ -Type CdS Nanowires: Surface Charge Transfer Doping and Photovoltaic Devices. <i>Advanced Energy Materials</i> , 2013, 3, 579-583.	10.2	37
161	Improved interfacial and electrical properties of atomic layer deposition HfO <sub>2</sub> films on Ge with La <sub>2</sub> O <sub>3</sub> passivation. <i>Applied Surface Science</i> , 2013, 264, 783-786.	3.1	20
162	Effect of annealing on interfacial and band alignment characteristics of HfO <sub>2</sub> /SiO <sub>2</sub> gate stacks on Ge substrates. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012, 30, 010602.	0.6	2

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163	Self-powered and fast-speed photodetectors based on CdS:Ga nanoribbon/Au Schottky diodes. <i>Journal of Materials Chemistry</i> , 2012, 22, 23272.	6.7	116
164	Nonvolatile multibit Schottky memory based on single n-type Ga doped CdSe nanowires. <i>Nanotechnology</i> , 2012, 23, 485203.	1.3	15
165	Device structure-dependent field-effect and photoresponse performances of p-type ZnTe:Sb nanoribbons. <i>Journal of Materials Chemistry</i> , 2012, 22, 6206.	6.7	96
166	High-gain visible-blind UV photodetectors based on chlorine-doped n-type ZnS nanoribbons with tunable optoelectronic properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 12632.	6.7	64
167	Tuning the electrical transport properties of n-type CdS nanowires via Ga doping and their nano-optoelectronic applications. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 14663.	1.3	47
168	Construction of high-quality CdS:Ga nanoribbon/silicon heterojunctions and their nano-optoelectronic applications. <i>Nanotechnology</i> , 2011, 22, 405201.	1.3	40
169	Magnificent CdS three-dimensional nanostructure arrays: the synthesis of a novel nanostructure family for nanotechnology. <i>CrystEngComm</i> , 2011, 13, 145-152.	1.3	12
170	Large-Scale Growth of a Novel Hierarchical ZnO Three-Dimensional Nanostructure with Preformed Patterned Substrate. <i>Crystal Growth and Design</i> , 2011, 11, 3837-3843.	1.4	21
171	Synthesis and nano-field-effect transistors of p-type Zn <sub>0.3</sub> Cd <sub>0.7</sub> Te nanoribbons. <i>Materials Letters</i> , 2011, 65, 1753-1755.	1.3	14
172	Synthesis of p-type ZnSe nanowires by atmosphere compensating technique. <i>Micro and Nano Letters</i> , 2011, 6, 459.	0.6	13
173	Synthesis and X-ray responsivity of Zn <sub>0.75</sub> Cd <sub>0.25</sub> Te nanoribbons. <i>Micro and Nano Letters</i> , 2011, 6, 624.	0.6	4
174	Structure and electrical properties of p-type twin ZnTe nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 102, 469-475.	1.1	19
175	Nano-Schottky barrier diodes based on Sb-doped ZnS nanoribbons with controlled p-type conductivity. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	35
176	Nitrogen Doped n-Type CdS Nanoribbons with Tunable Electrical and Photoelectrical Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 2003-2011.	0.9	4
177	High-performance CdS:P nanoribbon field-effect transistors constructed with high- $\epsilon$ dielectric and top-gate geometry. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	41
178	Field Effect Properties of Phosphorus Doped CdS Single-Crystal Nanoribbon via Co-Thermal-Evaporation. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 433-439.	0.9	10
179	Coaxial ZnSe/Si nanocables with controlled p-type shell doping. <i>Nanotechnology</i> , 2010, 21, 285206.	1.3	15
180	Enhanced p-Type Conductivity of ZnTe Nanoribbons by Nitrogen Doping. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7980-7985.	1.5	51

#	ARTICLE	IF	CITATIONS
181	Chlorine-doped n-type CdS nanowires with enhanced photoconductivity. Nanotechnology, 2010, 21, 505203.	1.3	66
182	Distinguishing wavelength using two parallelly stacking graphene/thin Si/graphene heterojunctions. Journal of Materials Chemistry C, 0, , .	2.7	6
183	Stable down-conversion white light-emitting devices based on highly luminescent copper halides synthesized at room temperature. Journal of Materials Chemistry C, 0, , .	2.7	33