

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	A library of atomically thin metal chalcogenides. <i>Nature</i> , 2018, 556, 355-359.	13.7	1,225
2	Highly Polarization-Sensitive, Broadband, Self-Powered Photodetector Based on Graphene/PdSe ₂ /Germanium Heterojunction. <i>ACS Nano</i> , 2019, 13, 9907-9917.	7.3	420
3	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
4	Atomically thin noble metal dichalcogenide: a broadband mid-infrared semiconductor. <i>Nature Communications</i> , 2018, 9, 1545.	5.8	367
5	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
6	Multilayered PdSe ₂ /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
7	Controlled Synthesis of 2D Palladium Diselenide for Sensitive Photodetector Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1806878.	7.8	286
8	Ultrabroadband and High-Detectivity Photodetector Based on WS ₂ /Ge Heterojunction through Defect Engineering and Interface Passivation. <i>ACS Nano</i> , 2021, 15, 10119-10129.	7.3	252
9	High Mobility 2D Palladium Diselenide Field-Effect Transistors with Tunable Ambipolar Characteristics. <i>Advanced Materials</i> , 2017, 29, 1602969.	11.1	251
10	In Situ Fabrication of 2D WS ₂ /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
11	Van der Waals Epitaxial Growth of Mosaic-Like 2D Platinum Ditelluride Layers for Room-Temperature Mid-Infrared Photodetection up to 10.6 μm . <i>Advanced Materials</i> , 2020, 32, e2004412.	11.1	202
12	Colloidal Synthesis of Ternary Copper Halide Nanocrystals for High-Efficiency Deep-Blue Light-Emitting Diodes with a Half-Lifetime above 100 h. <i>Nano Letters</i> , 2020, 20, 3568-3576.	4.5	200
13	Stable Yellow Light-Emitting Devices Based on Ternary Copper Halides with Broadband Emissive Self-Trapped Excitons. <i>ACS Nano</i> , 2020, 14, 4475-4486.	7.3	199
14	Controlled Growth of Atomically Thin In ₂ Se ₃ Flakes by van der Waals Epitaxy. <i>Journal of the American Chemical Society</i> , 2013, 135, 13274-13277.	6.6	192
15	In-situ fabrication of PtSe ₂ /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
16	Ultrafast and sensitive photodetector based on a PtSe ₂ /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
17	High-performance perovskite photodetectors based on solution-processed all-inorganic CsPbBr ₃ thin films. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8355-8360.	2.7	182
18	High-performance self-powered deep ultraviolet photodetector based on MoS ₂ /GaN p-n heterojunction. <i>Journal of Materials Chemistry C</i> , 2018, 6, 299-303.	2.7	178

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19	Sensitive Deep Ultraviolet Photodetector and Image Sensor Composed of Inorganic Lead-Free Cs ₃ Cu ₂ I ₅ Perovskite with Wide Bandgap. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5343-5350.	2.1	171
20	Electrically-Driven Violet Light-Emitting Devices Based on Highly Stable Lead-Free Perovskite Cs ₃ Sb ₂ Br ₉ Quantum Dots. <i>ACS Energy Letters</i> , 2020, 5, 385-394.	8.8	169
21	A self-powered solar-blind photodetector based on a MoS ₂ /I ² -Ga ₂ O ₃ heterojunction. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10982-10986.	2.7	166
22	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
23	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
24	Mixed-dimensional PdSe ₂ /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
25	Highly sensitive solar-blind deep ultraviolet photodetector based on graphene/PtSe ₂ /I ² -Ga ₂ O ₃ 2D/3D Schottky junction with ultrafast speed. <i>Nano Research</i> , 2021, 14, 1973-1979.	5.8	152
26	High-efficiency and air-stable photodetectors based on lead-free double perovskite Cs ₂ AgBiBr ₆ thin films. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7982-7988.	2.7	150
27	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
28	Design of 2D Layered PtSe ₂ Heterojunction for the High-Performance, Room-Temperature, Broadband, Infrared Photodetector. <i>ACS Photonics</i> , 2018, 5, 3820-3827.	3.2	144
29	Sodium Doping-Enhanced Emission Efficiency and Stability of CsPbBr ₃ Nanocrystals for White Light-Emitting Devices. <i>Chemistry of Materials</i> , 2019, 31, 3917-3928.	3.2	141
30	<i>In Situ</i> Fabrication of PdSe ₂ /GaN Schottky Junction for Polarization-Sensitive Ultraviolet Photodetection with High Dichroic Ratio. <i>ACS Nano</i> , 2022, 16, 5545-5555.	7.3	139
31	The ultra-high NO ₂ response of ultra-thin WS ₂ nanosheets synthesized by hydrothermal and calcination processes. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 789-796.	4.0	130
32	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
33	Metal-Semiconductor Phase Transition in WSe ₂ (1-x)/x Te ₂ x Monolayer. <i>Advanced Materials</i> , 2017, 29, 1603991.	11.1	123
34	Solution-processed one-dimensional CsCu ₂ I ₃ nanowires for polarization-sensitive and flexible ultraviolet photodetectors. <i>Materials Horizons</i> , 2020, 7, 1613-1622.	6.4	120
35	Ultrahigh Speed and Broadband Few-Layer MoTe ₂ /Si 2D-3D Heterojunction-Based Photodiodes Fabricated by Pulsed Laser Deposition. <i>Advanced Functional Materials</i> , 2020, 30, 1907951.	7.8	119
36	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

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37	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
38	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
39	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
40	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
41	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
42	High-performance planar green light-emitting diodes based on a PEDOT:PSS/CH ₃ NH ₃ PbBr ₃ /ZnO sandwich structure. <i>Nanoscale</i> , 2016, 8, 10035-10042.	2.8	93
43	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
44	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
45	Highly Stable Perovskite Photodetector Based on Vapor-Processed Micrometer-Scale CsPbBr ₃ Microplatelets. <i>Chemistry of Materials</i> , 2018, 30, 6744-6755.	3.2	89
46	Synergetic Effect of the Surfactant and Silica Coating on the Enhanced Emission and Stability of Perovskite Quantum Dots for Anticounterfeiting. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 28013-28022.	4.0	88
47	Boron(III)-Containing Donor-Acceptor Compound with Goldlike Reflective Behavior for Organic Resistive Memory Devices. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3647-3651.	7.2	86
48	A self-powered high-performance photodetector based on a MoS ₂ /GaAs heterojunction with high polarization sensitivity. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3817-3821.	2.7	83
49	A room-temperature near-infrared photodetector based on a MoS ₂ /CdTe p-n heterojunction with a broadband response up to 1700 nm. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4861-4865.	2.7	81
50	High-response NO ₂ resistive gas sensor based on bilayer MoS ₂ grown by a new two-step chemical vapor deposition method. <i>Journal of Alloys and Compounds</i> , 2017, 725, 253-259.	2.8	80
51	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
52	Strong Interlayer Transition in Few-Layer InSe/PdSe ₂ van der Waals Heterostructure for Near-Infrared Photodetection. <i>Advanced Functional Materials</i> , 2021, 31, 2104143.	7.8	69
53	Photovoltaic high-performance broadband photodetector based on MoS ₂ /Si nanowire array heterojunction. <i>Solar Energy Materials and Solar Cells</i> , 2018, 182, 272-280.	3.0	67
54	Chlorine-doped n-type CdS nanowires with enhanced photoconductivity. <i>Nanotechnology</i> , 2010, 21, 505203.	1.3	66

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55	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
56	High-performance MoS ₂ /Si heterojunction broadband photodetectors from deep ultraviolet to near infrared. <i>Optics Letters</i> , 2017, 42, 3335.	1.7	64
57	Ultrastable Lead-Free Double Perovskite Photodetectors with Imaging Capability. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900188.	1.9	62
58	Ultrastable Lead-Free Double Perovskite Warm-White Light-Emitting Devices with a Lifetime above 1000 Hours. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46330-46339.	4.0	61
59	Near-infrared random lasing realized in a perovskite CH ₃ NH ₃ PbI ₃ thin film. <i>Journal of Materials Chemistry C</i> , 2016, 4, 8373-8379.	2.7	57
60	An ultrasensitive self-driven broadband photodetector based on a 2D-WS ₂ /GaAs type-II Zener heterojunction. <i>Nanoscale</i> , 2020, 12, 4435-4444.	2.8	56
61	A solution-processed ternary copper halide thin films for air-stable and deep-ultraviolet-sensitive photodetector. <i>Nanoscale</i> , 2020, 12, 17213-17221.	2.8	55
62	Stable and Self-Powered Solar-Blind Ultraviolet Photodetectors Based on a Cs ₃ Cu ₂ I ₅ /β ² -Ga ₂ O ₃ Heterojunction Prepared by Dual-Source Vapor Codeposition. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15409-15419.	4.0	55
63	Synthesis of large-area 2D WS ₂ 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
64	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
65	Enhanced p-Type Conductivity of ZnTe Nanoribbons by Nitrogen Doping. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7980-7985.	1.5	51
66	Light Confinement Effect Induced Highly Sensitive, Self-Driven Near-Infrared Photodetector and Image Sensor Based on Multilayer PdSe ₂ /Pyramid Si Heterojunction. <i>Small</i> , 2019, 15, e1903831.	5.2	51
67	Strategy of All-Inorganic Cs ₃ Cu ₂ I ₅ /Si-Core/Shell Nanowire Heterojunction for Stable and Ultraviolet-Enhanced Broadband Photodetectors with Imaging Capability. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37363-37374.	4.0	51
68	Direct Tellurization of Pt to Synthesize 2D PtTe ₂ for High-Performance Broadband Photodetectors and NIR Image Sensors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53921-53931.	4.0	48
69	A defect-induced broadband photodetector based on WS ₂ /pyramid Si 2D/3D mixed-dimensional heterojunction with a light confinement effect. <i>Nanoscale</i> , 2021, 13, 13550-13557.	2.8	48
70	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
71	Highly-efficient and stable photocatalytic activity of lead-free Cs ₂ AgInCl ₆ double perovskite for organic pollutant degradation. <i>Journal of Colloid and Interface Science</i> , 2021, 596, 376-383.	5.0	47
72	Vapor-Assisted Solution Approach for High-Quality Perovskite CH ₃ NH ₃ PbBr ₃ Thin Films for High-Performance Green Light-Emitting Diode Applications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42893-42904.	4.0	46

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73	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
74	Humidity sensing properties of the hydrothermally synthesized WS ₂ -modified SnO ₂ hybrid nanocomposite. <i>Applied Surface Science</i> , 2018, 447, 325-330.	3.1	43
75	Recent Advances and Opportunities of Lead-Free Perovskite Nanocrystal for Optoelectronic Application. <i>Energy Material Advances</i> , 2021, 2021, .	4.7	43
76	Regulating the Singlet and Triplet Emission of Sb ³⁺ Ions to Achieve Single-Component White-Light Emitter with Record High Color-Rendering Index and Stability. <i>Nano Letters</i> , 2022, 22, 5046-5054.	4.5	43
77	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
78	High-performance CdS:P nanoribbon field-effect transistors constructed with high- ϵ dielectric and top-gate geometry. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	41
79	Construction of high-quality CdS:Ga nanoribbon/silicon heterojunctions and their nano-optoelectronic applications. <i>Nanotechnology</i> , 2011, 22, 405201.	1.3	40
80	Construction of MoS ₂ /Si nanowire array heterojunction for ultrahigh-sensitivity gas sensor. <i>Nanotechnology</i> , 2017, 28, 435503.	1.3	40
81	Fabrication of MAPbBr ₃ Single Crystal μ LED Photodiode and μ LED Phototriode for Sensitive Light Detection Application. <i>Advanced Functional Materials</i> , 2020, 30, 2001033.	7.8	40
82	Ultrathin Polymer Nanofibrils for Solar-Blind Deep Ultraviolet Light Photodetectors Application. <i>Nano Letters</i> , 2020, 20, 644-651.	4.5	38
83	Ultrahigh Mobility of n -Type CdS Nanowires: Surface Charge Transfer Doping and Photovoltaic Devices. <i>Advanced Energy Materials</i> , 2013, 3, 579-583.	10.2	37
84	Polarized emission effect realized in CH ₃ NH ₃ PbI ₃ perovskite nanocrystals. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8699-8706.	2.7	37
85	Two-dimensional Ti ₃ C ₂ MXene-based nanostructures for emerging optoelectronic applications. <i>Materials Horizons</i> , 2021, 8, 2929-2963.	6.4	37
86	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
87	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
88	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
89	Stable down-conversion white light-emitting devices based on highly luminescent copper halides synthesized at room temperature. <i>Journal of Materials Chemistry C</i> , 0, .	2.7	33
90	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

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91	Carbazole-Containing Polymer-Assisted Trap Passivation and Hole-Injection Promotion for Efficient and Stable CsCu ₂ I ₃ -Based Yellow LEDs. <i>Advanced Science</i> , 2022, 9, .	5.6	32
92	Fabrication of 2D PdSe ₂ /3D CdTe Mixed-Dimensional van der Waals Heterojunction for Broadband Infrared Detection. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 41791-41801.	4.0	30
93	Boron(III)-Containing Donor-Acceptor Compound with Goldlike Reflective Behavior for Organic Resistive Memory Devices. <i>Angewandte Chemie</i> , 2016, 128, 3711-3715.	1.6	28
94	Hole-Injection Layer-Free Perovskite Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32289-32297.	4.0	28
95	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
96	Graphene-Quantum-Dots-Induced Centimeter-Sized Growth of Monolayer Organic Crystals for High-Performance Transistors. <i>Advanced Materials</i> , 2020, 32, e2003315.	11.1	27
97	Highly Sensitive Narrowband Si Photodetector With Peak Response at Around 1060 nm. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 3211-3214.	1.6	26
98	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
99	Dual-mode high-sensitivity humidity sensor based on MoS ₂ /Si nanowires array heterojunction. <i>Journal of Alloys and Compounds</i> , 2017, 726, 632-637.	2.8	25
100	Construction of mixed-dimensional WS ₂ /Si heterojunctions for high-performance infrared photodetection and imaging applications. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6877-6882.	2.7	25
101	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
102	Rhodium(I) Complexes of Tridentate <i>N</i> -Donor Ligands and Their Supramolecular Assembly Studies. <i>Inorganic Chemistry</i> , 2016, 55, 3685-3691.	1.9	24
103	Heterojunctions Based on II-VI Compound Semiconductor One-Dimensional Nanostructures and Their Optoelectronic Applications. <i>Crystals</i> , 2017, 7, 307.	1.0	23
104	High-Performance Nanofloating Gate Memory Based on Lead Halide Perovskite Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24367-24376.	4.0	23
105	Cation exchange synthesis of two-dimensional vertical Cu ₂ S/CdS heterojunctions for photovoltaic device applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 789-796.	5.2	23
106	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
107	Effect of CH ₃ NH ₃ I concentration on the physical properties of solution-processed organometal halide perovskite CH ₃ NH ₃ PbI ₃ . <i>Journal of Alloys and Compounds</i> , 2017, 706, 274-279.	2.8	22
108	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

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109	Photovoltaic broadband photodetectors based on CH ₃ NH ₃ PbI ₃ thin films grown on silicon nanoporous pillar array. <i>Solar Energy Materials and Solar Cells</i> , 2020, 204, 110230.	3.0	21
110	Improved interfacial and electrical properties of atomic layer deposition HfO ₂ films on Ge with La ₂ O ₃ passivation. <i>Applied Surface Science</i> , 2013, 264, 783-786.	3.1	20
111	Deep oxidative desulfurization catalyzed by (NH ₄) _x H ₄ PMo ₁₁ VO ₄₀ (x = 1, 2, 3, 4) using O ₂ as an oxidant. <i>RSC Advances</i> , 2017, 7, 48454-48460.	1.7	20
112	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
113	Improved Electrical Transport and Electroluminescence Properties of p-ZnO/n-Si Heterojunction via Introduction of Patterned SiO ₂ Intermediate Layer. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4504-4510.	1.5	18
114	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
115	Synthesis, Electrochemistry, and Photophysical Studies of Ruthenium(II) Polypyridine Complexes with D ^π -A ^π -D Type Ligands and Their Application Studies as Organic Memories. <i>Chemistry - A European Journal</i> , 2016, 22, 14013-14021.	1.7	17
116	Boron doping and structure control of carbon materials for supercapacitor application: the effect of freeze-drying and air-drying for porosity engineering. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 641-654.	1.2	17
117	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
118	Coaxial ZnSe/Si nanocables with controlled p-type shell doping. <i>Nanotechnology</i> , 2010, 21, 285206.	1.3	15
119	Nonvolatile multibit Schottky memory based on single n-type Ga doped CdSe nanowires. <i>Nanotechnology</i> , 2012, 23, 485203.	1.3	15
120	Synthesis and nano-field-effect transistors of p-type Zn _{0.3} Cd _{0.7} Te nanoribbons. <i>Materials Letters</i> , 2011, 65, 1753-1755.	1.3	14
121	An efficient and recyclable polyoxometalate-based hybrid catalyst for heterogeneous deep oxidative desulfurization of dibenzothiophene derivatives with oxygen. <i>RSC Advances</i> , 2016, 6, 79520-79525.	1.7	14
122	Fabrication and Characterization of ZnO Nano-Clips by the Polyol-Mediated Process. <i>Nanoscale Research Letters</i> , 2018, 13, 47.	3.1	14
123	Simulation of Biologic Synapse Through Organic-Inorganic Hybrid Memristors Using Novel Ti-Based Maleic Acid/TiO ₂ Ultrathin Films. <i>IEEE Electron Device Letters</i> , 2020, 41, 155-158.	2.2	14
124	Sensitive Photodetector Arrays Based on Patterned CH ₃ NH ₃ PbBr ₃ Single Crystal Microplate for Image Sensing Application. <i>Advanced Optical Materials</i> , 2021, 9, 2100371.	3.6	14
125	Synthesis of p-type ZnSe nanowires by atmosphere compensating technique. <i>Micro and Nano Letters</i> , 2011, 6, 459.	0.6	13
126	Controllable synthesis of ternary Zn _x Se _{1-x} nanowires with tunable band-gaps for optoelectronic applications. <i>Journal of Alloys and Compounds</i> , 2017, 708, 623-627.	2.8	13

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127	Photodetectors: Controlled Synthesis of 2D Palladium Diselenide for Sensitive Photodetector Applications (Adv. Funct. Mater. 1/2019). Advanced Functional Materials, 2019, 29, 1970005.	7.8	13
128	Stable and ultraviolet-enhanced broadband photodetectors based on Si nanowire arrays-Cs ₃ Cu ₂ I ₅ nanocrystals hybrid structures. Materials Today Physics, 2021, 18, 100398.	2.9	13
129	Detection of wavelength in the range from ultraviolet to near infrared light using two parallel PtSe ₂ /thin Si Schottky junctions. Materials Horizons, 2021, 8, 1976-1984.	6.4	13
130	Non-ultrawide Bandgap Semiconductor GaSe Nanobelts for Sensitive Deep Ultraviolet Light Photodetector Application. Small, 2022, 18, e2200594.	5.2	13
131	Magnificent CdS three-dimensional nanostructure arrays: the synthesis of a novel nanostructure family for nanotechnology. CrystEngComm, 2011, 13, 145-152.	1.3	12
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