

# Xiao Wei Sun

## List of Publications by Year in descending order

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840  
papers

31,573  
citations

4370

86  
h-index

9839

141  
g-index

854  
all docs

854  
docs citations

854  
times ranked

29276  
citing authors

#	ARTICLE	IF	CITATIONS
1	Blueshift of optical band gap in ZnO thin films grown by metal-organic chemical-vapor deposition. Journal of Applied Physics, 2005, 98, 013505.	1.1	638
2	Hydrothermally grown oriented ZnO nanorod arrays for gas sensing applications. Nanotechnology, 2006, 17, 4995-4998.	1.3	636
3	Zinc oxide nanocomb biosensor for glucose detection. Applied Physics Letters, 2006, 88, 233106.	1.5	528
4	An inverted organic solar cell employing a sol-gel derived ZnO electron selective layer and thermal evaporated MoO <sub>3</sub> hole selective layer. Applied Physics Letters, 2008, 93, .	1.5	517
5	Optical properties of epitaxially grown zinc oxide films on sapphire by pulsed laser deposition. Journal of Applied Physics, 1999, 86, 408-411.	1.1	510
6	Improved dye-sensitized solar cells with a ZnO-nanoflower photoanode. Applied Physics Letters, 2007, 90, 263501.	1.5	502
7	All-Inorganic Perovskite Nanocrystals for High-Efficiency Light Emitting Diodes: Dual-Phase CsPbBr <sub>3</sub> -CsPb <sub>2</sub> Br <sub>5</sub> Composites. Advanced Functional Materials, 2016, 26, 4595-4600.	7.8	425
8	Enzymatic glucose biosensor based on ZnO nanorod array grown by hydrothermal decomposition. Applied Physics Letters, 2006, 89, 123902.	1.5	415
9	High-Efficiency Light-Emitting Diodes of Organometal Halide Perovskite Amorphous Nanoparticles. ACS Nano, 2016, 10, 6623-6630.	7.3	347
10	Field emission from zinc oxide nanopins. Applied Physics Letters, 2003, 83, 3806-3808.	1.5	332
11	A bi-functional device for self-powered electrochromic window and self-rechargeable transparent battery applications. Nature Communications, 2014, 5, 4921.	5.8	328
12	A ZnO Nanorod Inorganic/Organic Heterostructure Light-Emitting Diode Emitting at 342 nm. Nano Letters, 2008, 8, 1219-1223.	4.5	292
13	Full Visible Range Covering InP/ZnS Nanocrystals with High Photometric Performance and Their Application to White Quantum Dot Light-Emitting Diodes. Advanced Materials, 2012, 24, 4180-4185.	11.1	283
14	Field emission from gallium-doped zinc oxide nanofiber array. Applied Physics Letters, 2004, 84, 1540-1542.	1.5	255
15	Halide-Rich Synthesized Cesium Lead Bromide Perovskite Nanocrystals for Light-Emitting Diodes with Improved Performance. Chemistry of Materials, 2017, 29, 5168-5173.	3.2	253
16	Heterojunction-Depleted Lead-Free Perovskite Solar Cells with Coarse-Grained Ba <sub>0.3</sub> CsSn <sub>3</sub> Thin Films. Advanced Energy Materials, 2016, 6, 1601130.	10.2	247
17	Si nanopillar array optimization on Si thin films for solar energy harvesting. Applied Physics Letters, 2009, 95, .	1.5	245
18	Room Temperature Excitonic Whispering Gallery Mode Lasing from High-Quality Hexagonal ZnO Microdisks. Advanced Materials, 2011, 23, 2199-2204.	11.1	236

#	ARTICLE	IF	CITATIONS
19	Hybrid Perovskite Light-Emitting Diodes Based on Perovskite Nanocrystals with Organic-Inorganic Mixed Cations. <i>Advanced Materials</i> , 2017, 29, 1606405.	11.1	235
20	Efficient Red/Green/Blue Tandem Quantum-Dot Light-Emitting Diodes with External Quantum Efficiency Exceeding 21%. <i>ACS Nano</i> , 2018, 12, 697-704.	7.3	234
21	Photoluminescent properties of copper-doped zinc oxide nanowires. <i>Nanotechnology</i> , 2004, 15, 856-861.	1.3	231
22	Synthesis, Characterization, Physical Properties, and OLED Application of Single BN-Fused Perylene Diimide. <i>Journal of Organic Chemistry</i> , 2015, 80, 196-203.	1.7	227
23	Recent advances in quantum dot-based light-emitting devices: Challenges and possible solutions. <i>Materials Today</i> , 2019, 24, 69-93.	8.3	213
24	Zinc oxide nanodisk. <i>Applied Physics Letters</i> , 2004, 85, 3878-3880.	1.5	212
25	Single-Crystalline $MFe_2O_4$ Nanotubes/Nanorings Synthesized by Thermal Transformation Process for Biological Applications. <i>ACS Nano</i> , 2009, 3, 2798-2808.	7.3	211
26	Stable field emission from hydrothermally grown ZnO nanotubes. <i>Applied Physics Letters</i> , 2006, 88, 213102.	1.5	203
27	Tailoring Zinc Oxide Nanowires for High Performance Amperometric Glucose Sensor. <i>Electroanalysis</i> , 2007, 19, 1008-1014.	1.5	190
28	Growth mechanism of tubular ZnO formed in aqueous solution. <i>Nanotechnology</i> , 2006, 17, 1740-1744.	1.3	177
29	ZnO-Microrod/GaN Heterostructured Whispering-Gallery-Mode Microlaser Diodes. <i>Advanced Materials</i> , 2011, 23, 4115-4119.	11.1	177
30	Improving Interfacial Charge Recombination in Planar Heterojunction Perovskite Photovoltaics with Small Molecule as Electron Transport Layer. <i>Advanced Energy Materials</i> , 2017, 7, 1700522.	10.2	173
31	Pushing up the efficiency of planar perovskite solar cells to 18.2% with organic small molecules as the electron transport layer. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7339-7344.	5.2	170
32	An inverted organic solar cell with an ultrathin Ca electron-transporting layer and MoO <sub>3</sub> hole-transporting layer. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	164
33	High-performance piezoelectric nanogenerators composed of formamidinium lead halide perovskite nanoparticles and poly(vinylidene fluoride). <i>Nano Energy</i> , 2017, 37, 126-135.	8.2	164
34	Morphology-Tailored Synthesis of Tungsten Trioxide (Hydrate) Thin Films and Their Photocatalytic Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 229-236.	4.0	163
35	Flexible Piezoelectric Nanocomposite Generators Based on Formamidinium Lead Halide Perovskite Nanoparticles. <i>Advanced Functional Materials</i> , 2016, 26, 7708-7716.	7.8	163
36	Fast Switching Electrochromic Display Using a Viologen-Modified ZnO Nanowire Array Electrode. <i>Nano Letters</i> , 2008, 8, 1884-1889.	4.5	160

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37	High-bendability flexible dye-sensitized solar cell with a nanoparticle-modified ZnO-nanowire electrode. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	151
38	A Versatile Light-Switchable Nanorod Memory: Wurtzite ZnO on Perovskite SrTiO <sub>3</sub> . <i>Advanced Functional Materials</i> , 2013, 23, 4977-4984.	7.8	147
39	Enhanced photoelectrochemical water-splitting effect with a bent ZnO nanorod photoanode decorated with Ag nanoparticles. <i>Nanotechnology</i> , 2012, 23, 235401.	1.3	146
40	Advances in the LED Materials and Architectures for Energy-Saving Solid-State Lighting Toward "Lighting Revolution". <i>IEEE Photonics Journal</i> , 2012, 4, 613-619.	1.0	145
41	An Azaacene Derivative as Promising Electron-Transport Layer for Inverted Perovskite Solar Cells. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2135-2138.	1.7	144
42	p-type conduction in unintentional carbon-doped ZnO thin films. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	143
43	Carbon nanotube-ZnO nanocomposite electrodes for supercapacitors. <i>Solid State Ionics</i> , 2009, 180, 1525-1528.	1.3	142
44	A photometric investigation of ultra-efficient LEDs with high color rendering index and high luminous efficacy employing nanocrystal quantum dot luminophores. <i>Optics Express</i> , 2010, 18, 340.	1.7	141
45	Efficient tandem organic solar cells with an Al/MoO <sub>3</sub> intermediate layer. <i>Applied Physics Letters</i> , 2008, 93, 083305.	1.5	137
46	Highly Flexible, Electrically Driven, Top-Emitting, Quantum Dot Light-Emitting Stickers. <i>ACS Nano</i> , 2014, 8, 8224-8231.	7.3	135
47	An oleic acid-capped CdSe quantum-dot sensitized solar cell. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	126
48	N <sup>+</sup> P transition sensing behaviors of ZnO nanotubes exposed to NO <sub>2</sub> gas. <i>Nanotechnology</i> , 2009, 20, 465501.	1.3	126
49	Polarized emission from CsPbX <sub>3</sub> perovskite quantum dots. <i>Nanoscale</i> , 2016, 8, 11565-11570.	2.8	125
50	Photochromic transparent wood for photo-switchable smart window applications. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8649-8654.	2.7	125
51	Synthesis, Physical Properties, and Light-Emitting Diode Performance of Phenazine-Based Derivatives with Three, Five, and Nine Fused Six-Membered Rings. <i>Journal of Organic Chemistry</i> , 2015, 80, 3030-3035.	1.7	122
52	Synthesis, structure, and optoelectronic properties of a new twistacene 1,2,3,4,6,13-hexaphenyl-7,11-bisbenzo-pentacene. <i>Journal of Materials Chemistry</i> , 2010, 20, 8167.	6.7	121
53	Influence of Channel Layer Thickness on the Electrical Performances of Inkjet-Printed In-Ga-Zn Oxide Thin-Film Transistors. <i>IEEE Transactions on Electron Devices</i> , 2011, 58, 480-485.	1.6	121
54	Synthesis and Nonvolatile Memory Behaviors of Dioxatetraazapentacene Derivatives. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 6458-6462.	4.0	121

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55	Over 100 cd A <sup>-1</sup> Efficient Quantum Dot Light-Emitting Diodes with Inverted Tandem Structure. <i>Advanced Functional Materials</i> , 2017, 27, 1700610.	7.8	117
56	Development of InP Quantum Dot-Based Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2020, 5, 1095-1106.	8.8	115
57	Propagation dynamics of an optical vortex imposed on an Airy beam. <i>Optics Letters</i> , 2010, 35, 4075.	1.7	114
58	Carbon nanotube-zinc oxide electrode and gel polymer electrolyte for electrochemical supercapacitors. <i>Journal of Alloys and Compounds</i> , 2009, 480, L17-L19.	2.8	112
59	Synthesis, Structure, and Physical Properties of 5,7,14,16-Tetraphenyl-8:9,12:13-bisbenzo-hexatwistacene. <i>Chemistry - an Asian Journal</i> , 2012, 7, 561-564.	1.7	112
60	Synthesis, Characterization, and Bipolar Transporting Behavior of a New Twisted Polycyclic Aromatic Hydrocarbon: 1,4-Diphenyl-naphtho(2,3-b)pyrene-6-nitro-7-methyl Carboxylate. <i>Journal of Materials Chemistry - A European Journal</i> , 2010, 16, 7422-7426.	1.5	110
61	Highly Efficient Lead-Free (Bi,Ce)-Codoped Cs <sub>2</sub> Ag <sub>0.4</sub> Na <sub>0.6</sub> InCl <sub>6</sub> Double Perovskites for White Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2020, 32, 7814-7821.	3.2	108
62	Optimization of an inverted organic solar cell. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 985-991.	3.0	107
63	Hydrothermally grown nanostructured WO <sub>3</sub> films and their electrochromic characteristics. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 285501.	1.3	107
64	Thin film perovskite light-emitting diode based on CsPbBr <sub>3</sub> powders and interfacial engineering. <i>Nano Energy</i> , 2017, 37, 40-45.	8.2	107
65	Irreversible accumulated SERS behavior of the molecule-linked silver and silver-doped titanium dioxide hybrid system. <i>Nature Communications</i> , 2020, 11, 1785.	5.8	107
66	Giant enhancement of top emission from ZnO thin film by nanopatterned Pt. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	106
67	Polydopamine-assisted decoration of ZnO nanorods with Ag nanoparticles: an improved photoelectrochemical anode. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5045-5052.	5.2	104
68	On the initial growth of indium tin oxide on glass. <i>Applied Physics Letters</i> , 1996, 68, 2663-2665.	1.5	103
69	Printed all-solid flexible microsupercapacitors: towards the general route for high energy storage devices. <i>Nanotechnology</i> , 2014, 25, 094010.	1.3	100
70	Improved ITO thin films with a thin ZnO buffer layer by sputtering. <i>Thin Solid Films</i> , 2000, 360, 75-81.	0.8	99
71	Electrochromic properties of nanostructured tungsten trioxide (hydrate) films and their applications in a complementary electrochromic device. <i>Electrochimica Acta</i> , 2012, 63, 153-160.	2.6	98
72	Low propagation loss SiN optical waveguide prepared by optimal low-hydrogen module. <i>Optics Express</i> , 2008, 16, 20809.	1.7	97

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73	Low work function metal modified ITO as cathode for inverted polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 1618-1621.	3.0	96
74	Spectral conversion for solar cell efficiency enhancement using YVO <sub>4</sub> :Bi <sup>3+</sup> ,Ln <sup>3+</sup> (Ln= Dy, Er, Ho, Eu, Sm), Tl <sup>+</sup> . <i>ETQq0 0,0 rgBT /C</i>	1.1	96
75	Solution Processed Tungsten Oxide Interfacial Layer for Efficient Hole Injection in Quantum Dot Light-Emitting Diodes. <i>Small</i> , 2014, 10, 247-252.	5.2	96
76	Beyond OLED: Efficient Quantum Dot Light-Emitting Diodes for Display and Lighting Application. <i>Chemical Record</i> , 2019, 19, 1729-1752.	2.9	95
77	Nanostructural zinc oxide and its electrical and optical properties. <i>Journal of Applied Physics</i> , 2004, 95, 661-666.	1.1	93
78	Application of Nanostructures in Electrochromic Materials and Devices: Recent Progress. <i>Materials</i> , 2010, 3, 5029-5053.	1.3	93
79	Free-standing ZnO-CuO composite nanowire array films and their gas sensing properties. <i>Nanotechnology</i> , 2011, 22, 325704.	1.3	93
80	Near-white emitting QD-LED based on hydrophilic CdS nanocrystals. <i>Journal of Luminescence</i> , 2012, 132, 467-473.	1.5	93
81	Hole Transport Bilayer Structure for Quasi-2D Perovskite Based Blue Light-Emitting Diodes with High Brightness and Good Spectral Stability. <i>Advanced Functional Materials</i> , 2019, 29, 1905339.	7.8	92
82	InP/ZnS/ZnS Core/Shell Blue Quantum Dots for Efficient Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2020, 30, 2005303.	7.8	92
83	Strategies Toward Efficient Blue Perovskite Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2021, 31, 2100516.	7.8	92
84	Ultraviolet emission from a ZnO rod homojunction light-emitting diode. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	91
85	Plasmonic Perovskite Light-Emitting Diodes Based on the Ag-CsPbBr <sub>3</sub> System. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 4926-4931.	4.0	91
86	Directly assembled CdSe quantum dots on TiO <sub>2</sub> in aqueous solution by adjusting pH value for quantum dot sensitized solar cells. <i>Electrochemistry Communications</i> , 2009, 11, 2265-2267.	2.3	90
87	Ferroelectric Transistors with Nanowire Channel: Toward Nonvolatile Memory Applications. <i>ACS Nano</i> , 2009, 3, 700-706.	7.3	89
88	InGaN/GaN light-emitting diode with a polarization tunnel junction. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	89
89	Simultaneous Low-Order Phase Suppression and Defect Passivation for Efficient and Stable Blue Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2020, 5, 2569-2579.	8.8	89
90	A p-n homojunction ZnO nanorod light-emitting diode formed by As ion implantation. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	88

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91	Ultraviolet and visible electroluminescence from n-ZnO $\hat{\cdot}$ SiOx $\hat{\cdot}$ (n,p)-Si heterostructured light-emitting diodes. Applied Physics Letters, 2008, 93, .	1.5	88
92	Properties of polycrystalline ZnO thin films by metal organic chemical vapor deposition. Journal of Crystal Growth, 2005, 281, 571-576.	0.7	87
93	Room-Temperature Ultraviolet Lasing from Zinc Oxide Microtubes. Japanese Journal of Applied Physics, 2003, 42, L1229-L1231.	0.8	86
94	Graphene-based transparent conductive electrodes for GaN-based light emitting diodes: Challenges and countermeasures. Nano Energy, 2015, 12, 419-436.	8.2	86
95	Double [4 + 2] Cycloaddition Reaction To Approach a Large Acene with Even-Number Linearly Fused Benzene Rings: 6,9,16,19-Tetraphenyl-1.20,4.5,10.11,14.15-Tetrabenzooctatwistacene. Journal of Organic Chemistry, 2015, 80, 109-113.	1.7	86
96	Bond contraction and lone pair interaction at nitride surfaces. Journal of Applied Physics, 2001, 90, 2615-2617.	1.1	85
97	A two-step hydrothermally grown ZnO microtube array for CO gas sensing. Applied Physics A: Materials Science and Processing, 2007, 88, 611-615.	1.1	85
98	Holographic Polymer-Dispersed Liquid Crystals: Materials, Formation, and Applications. Advances in OptoElectronics, 2008, 2008, 1-52.	0.6	85
99	Growth and characterization of zinc oxide nano/micro-fibers by thermal chemical reactions and vapor transport deposition in air. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 103-107.	1.3	84
100	An extended 'quantum confinement' theory: surface-coordination imperfection modifies the entire band structure of a nanosolid. Journal Physics D: Applied Physics, 2001, 34, 3470-3479.	1.3	82
101	Broadband absorption enhancement in randomly positioned silicon nanowire arrays for solar cell applications. Optics Letters, 2011, 36, 1884.	1.7	82
102	Advanced three-component ZnO/Ag/CdS nanocomposite photoanode for photocatalytic water splitting. Journal of Power Sources, 2014, 269, 466-472.	4.0	82
103	Employing Polar Solvent Controlled Ionization in Precursors for Synthesis of High-Quality Inorganic Perovskite Nanocrystals at Room Temperature. Advanced Functional Materials, 2018, 28, 1706000.	7.8	82
104	Airy beams generated by a binary phase element made of polymer-dispersed liquid crystals. Optics Express, 2009, 17, 19365.	1.7	81
105	Inverted Quantum-Dot Light-Emitting Diodes Fabricated by All-Solution Processing. ACS Applied Materials & Interfaces, 2016, 8, 5493-5498.	4.0	81
106	Growth of c-axis oriented gallium nitride thin films on an amorphous substrate by the liquid-target pulsed laser deposition technique. Journal of Applied Physics, 1996, 80, 4226-4228.	1.1	79
107	Effect of electric field strength on the length of anodized titania nanotube arrays. Journal of Electroanalytical Chemistry, 2009, 637, 6-12.	1.9	79
108	Solution-processed vanadium oxide as an efficient hole injection layer for quantum-dot light-emitting diodes. Journal of Materials Chemistry C, 2017, 5, 817-823.	2.7	79

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109	Effect of the Geometry of the Anodized Titania Nanotube Array on the Performance of Dye-Sensitized Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 4551-4561.	0.9	77
110	Warm-white light-emitting diodes integrated with colloidal quantum dots for high luminous efficacy and color rendering. <i>Optics Letters</i> , 2010, 35, 3372.	1.7	77
111	Onion-like carbon matrix supported Co <sub>3</sub> O <sub>4</sub> nanocomposites: a highly reversible anode material for lithium ion batteries with excellent cycling stability. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5212.	5.2	77
112	Effect of surfactant on the electro-optical properties of holographic polymer dispersed liquid crystal Bragg gratings. <i>Optical Materials</i> , 2005, 27, 1451-1455.	1.7	76
113	Efficient light-emitting diodes based on green perovskite nanocrystals with mixed-metal cations. <i>Nano Energy</i> , 2016, 30, 511-516.	8.2	76
114	Thermally stable transparent conducting and highly infrared reflective Ga-doped ZnO thin films by metal organic chemical vapor deposition. <i>Optical Materials</i> , 2011, 33, 768-772.	1.7	75
115	Refractive indices of textured indium tin oxide and zinc oxide thin films. <i>Thin Solid Films</i> , 2006, 510, 95-101.	0.8	74
116	Band parameters and electronic structures of wurtzite ZnO and ZnO <sup>x</sup> MgZnO quantum wells. <i>Journal of Applied Physics</i> , 2006, 99, 013702.	1.1	74
117	Exciton radiative lifetime in ZnO nanorods fabricated by vapor phase transport method. <i>Applied Physics Letters</i> , 2007, 90, 013107.	1.5	74
118	Defects Passivation With Dithienobenzodithiophene <sup>2</sup> -based $\pi$ -conjugated Polymer for Enhanced Performance of Perovskite Solar Cells. <i>Solar Rrl</i> , 2019, 3, 1900029.	3.1	74
119	A negative <sup>+</sup> positive tunable liquid-crystal microlens array by printing. <i>Optics Express</i> , 2009, 17, 4317.	1.7	73
120	Printable CsPbBr <sub>3</sub> perovskite quantum dot ink for coffee ring-free fluorescent microarrays using inkjet printing. <i>Nanoscale</i> , 2020, 12, 2569-2577.	2.8	73
121	Dye-sensitized solar cell with a titanium-oxide-modified carbon nanotube transparent electrode. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	71
122	Green InP/ZnSeS/ZnS Core Multi <sup>6</sup> shelled Quantum Dots Synthesized with Aminophosphine for Effective Display Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2008453.	7.8	71
123	Twinned Zn <sub>2</sub> TiO <sub>4</sub> Spinel Nanowires Using ZnO Nanowires as a Template. <i>Advanced Materials</i> , 2007, 19, 1839-1844.	11.1	70
124	Inverted tandem organic solar cells with a MoO <sub>3</sub> /Ag/Al/Ca intermediate layer. <i>Applied Physics Letters</i> , 2010, 97, 053303.	1.5	69
125	Homogenous Alloys of Formamidinium Lead Triiodide and Cesium Tin Triiodide for Efficient Ideal <sup>6</sup> bandgap Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12658-12662.	7.2	69
126	Enhanced field emission from injector-like ZnO nanostructures with minimized screening effect. <i>Nanotechnology</i> , 2007, 18, 135604.	1.3	68



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127	Enhanced optical absorption in nanopatterned silicon thin films with a nano-cone-hole structure for photovoltaic applications. <i>Optics Letters</i> , 2011, 36, 1713.	1.7	68
128	Light Extraction Efficiency Enhancement of Colloidal Quantum Dot Light-Emitting Diodes Using Large-Scale Nanopillar Arrays. <i>Advanced Functional Materials</i> , 2014, 24, 5977-5984.	7.8	68
129	Excitronics of semiconductor quantum dots and wires for lighting and displays. <i>Laser and Photonics Reviews</i> , 2014, 8, 73-93.	4.4	67
130	Bright and efficient light-emitting diodes based on MA/Cs double cation perovskite nanocrystals. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6123-6128.	2.7	67
131	Stable, Efficient, and All-Solution-Processed Quantum Dot Light-Emitting Diodes with Double-Sided Metal Oxide Nanoparticle Charge Transport Layers. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 495-499.	4.0	66
132	A high-performance UV/visible photodetector of Cu <sub>2</sub> O/ZnO hybrid nanofilms on SWNT-based flexible conducting substrates. <i>Journal of Materials Chemistry C</i> , 2014, 2, 9536-9542.	2.7	66
133	Ultraviolet amplified spontaneous emission from self-organized network of zinc oxide nanofibers. <i>Applied Physics Letters</i> , 2005, 86, 011118.	1.5	65
134	Propagation properties of an optical vortex carried by an Airy beam: experimental implementation. <i>Optics Letters</i> , 2011, 36, 1617.	1.7	65
135	Co-sensitized quantum dot solar cell based on ZnO nanowire. <i>Applied Surface Science</i> , 2010, 256, 7438-7441.	3.1	64
136	A quantum dot sensitized solar cell based on vertically aligned carbon nanotube templated ZnO arrays. <i>Electrochemistry Communications</i> , 2010, 12, 1432-1435.	2.3	64
137	Two-dimensional electron gas in Zn-polar ZnMgO/ZnO heterostructure grown by metal-organic vapor phase epitaxy. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	64
138	Optical absorption enhancement in nanopore textured-silicon thin film for photovoltaic application. <i>Optics Letters</i> , 2010, 35, 40.	1.7	64
139	A bright cadmium-free, hybrid organic/quantum dot white light-emitting diode. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	64
140	Large-area patterning of full-color quantum dot arrays beyond 1000 pixels per inch by selective electrophoretic deposition. <i>Nature Communications</i> , 2021, 12, 4603.	5.8	64
141	Gain narrowing and random lasing from dye-doped polymer-dispersed liquid crystals with nanoscale liquid crystal droplets. <i>Applied Physics Letters</i> , 2006, 89, 011111.	1.5	63
142	Efficient synthesis of plate-like crystalline hydrated tungsten trioxide thin films with highly improved electrochromic performance. <i>Chemical Communications</i> , 2012, 48, 365-367.	2.2	63
143	Self-screening of the quantum confined Stark effect by the polarization induced bulk charges in the quantum barriers. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	63
144	A Study on Graphene-Metal Contact. <i>Crystals</i> , 2013, 3, 257-274.	1.0	61

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145	All Solution-processed Stable White Quantum Dot Light-emitting Diodes with Hybrid ZnO@TiO <sub>2</sub> as Blue Emitters. <i>Scientific Reports</i> , 2014, 4, 4085.	1.6	61
146	Physicochemical properties and oral bioavailability of ursolic acid nanoparticles using supercritical anti-solvent (SAS) process. <i>Food Chemistry</i> , 2012, 132, 319-325.	4.2	60
147	Correlation between carrier recombination and p-type doping in P monodoped and In <sup>δ</sup> P codoped ZnO epilayers. <i>Applied Physics Letters</i> , 2007, 90, 152108.	1.5	59
148	Electroluminescence from a n-ZnO nanorod/p-CuAlO <sub>2</sub> heterojunction light-emitting diode. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 635-639.	1.3	59
149	Dependence of the properties of hydrothermally grown ZnO on precursor concentration. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 1423-1426.	1.3	59
150	Electroluminescence Efficiency Enhancement in Quantum Dot Light-Emitting Diodes by Embedding a Silver Nanoisland Layer. <i>Advanced Optical Materials</i> , 2015, 3, 1439-1445.	3.6	59
151	Electrically tunable two-dimensional holographic photonic crystal fabricated by a single diffractive element. <i>Applied Physics Letters</i> , 2006, 89, 171101.	1.5	58
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