

# Xiao Wei Sun

## List of Publications by Year in descending order

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840

papers

31,573

citations

4146

87

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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.	2.5	638
2	Hydrothermally grown oriented ZnO nanorod arrays for gas sensing applications. Nanotechnology, 2006, 17, 4995-4998.	2.6	636
3	Zinc oxide nanocomb biosensor for glucose detection. Applied Physics Letters, 2006, 88, 233106.	3.3	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, .	3.3	517
5	Optical properties of epitaxially grown zinc oxide films on sapphire by pulsed laser deposition. Journal of Applied Physics, 1999, 86, 408-411.	2.5	510
6	Improved dye-sensitized solar cells with a ZnO-nanoflower photoanode. Applied Physics Letters, 2007, 90, 263501.	3.3	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.	14.9	425
8	Enzymatic glucose biosensor based on ZnO nanorod array grown by hydrothermal decomposition. Applied Physics Letters, 2006, 89, 123902.	3.3	415
9	High-Efficiency Light-Emitting Diodes of Organometal Halide Perovskite Amorphous Nanoparticles. ACS Nano, 2016, 10, 6623-6630.	14.6	347
10	Field emission from zinc oxide nanopins. Applied Physics Letters, 2003, 83, 3806-3808.	3.3	332
11	A bi-functional device for self-powered electrochromic window and self-rechargeable transparent battery applications. Nature Communications, 2014, 5, 4921.	12.8	328
12	A ZnO Nanorod Inorganic/Organic Heterostructure Light-Emitting Diode Emitting at 342 nm. Nano Letters, 2008, 8, 1219-1223.	9.1	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.	21.0	283
14	Field emission from gallium-doped zinc oxide nanofiber array. Applied Physics Letters, 2004, 84, 1540-1542.	3.3	255
15	Halide-Rich Synthesized Cesium Lead Bromide Perovskite Nanocrystals for Light-Emitting Diodes with Improved Performance. Chemistry of Materials, 2017, 29, 5168-5173.	6.7	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.	19.5	247
17	Si nanopillar array optimization on Si thin films for solar energy harvesting. Applied Physics Letters, 2009, 95, .	3.3	245
18	Room Temperature Excitonic Whispering Gallery Mode Lasing from High-Quality Hexagonal ZnO Microdisks. Advanced Materials, 2011, 23, 2199-2204.	21.0	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.	21.0	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.	14.6	234
21	Photoluminescent properties of copper-doped zinc oxide nanowires. <i>Nanotechnology</i> , 2004, 15, 856-861.	2.6	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.	3.2	227
23	Recent advances in quantum dot-based light-emitting devices: Challenges and possible solutions. <i>Materials Today</i> , 2019, 24, 69-93.	14.2	213
24	Zinc oxide nanodisk. <i>Applied Physics Letters</i> , 2004, 85, 3878-3880.	3.3	212
25	Single-Crystalline $\text{MFe}_2\text{O}_4$ Nanotubes/Nanorings Synthesized by Thermal Transformation Process for Biological Applications. <i>ACS Nano</i> , 2009, 3, 2798-2808.	14.6	211
26	Stable field emission from hydrothermally grown ZnO nanotubes. <i>Applied Physics Letters</i> , 2006, 88, 213102.	3.3	203
27	Tailoring Zinc Oxide Nanowires for High Performance Amperometric Glucose Sensor. <i>Electroanalysis</i> , 2007, 19, 1008-1014.	2.9	190
28	Growth mechanism of tubular ZnO formed in aqueous solution. <i>Nanotechnology</i> , 2006, 17, 1740-1744.	2.6	177
29	$\text{ZnO}$ -Microrod/ $\text{p-GaN}$ Heterostructured Whispering-Gallery-Mode Microlaser Diodes. <i>Advanced Materials</i> , 2011, 23, 4115-4119.	21.0	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.	19.5	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.	10.3	170
32	An inverted organic solar cell with an ultrathin Ca electron-transporting layer and $\text{MoO}_3$ hole-transporting layer. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	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.	16.0	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.	8.0	163
35	Flexible Piezoelectric Nanocomposite Generators Based on Formamidinium Lead Halide Perovskite Nanoparticles. <i>Advanced Functional Materials</i> , 2016, 26, 7708-7716.	14.9	163
36	Fast Switching Electrochromic Display Using a Viologen-Modified ZnO Nanowire Array Electrode. <i>Nano Letters</i> , 2008, 8, 1884-1889.	9.1	160

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37	High-bendability flexible dye-sensitized solar cell with a nanoparticle-modified ZnO-nanowire electrode. Applied Physics Letters, 2008, 92, .	3.3	151
38	A Versatile Light-Switchable Nanorod Memory: Wurtzite ZnO on Perovskite SrTiO <sub>3</sub> . Advanced Functional Materials, 2013, 23, 4977-4984.	14.9	147
39	Enhanced photoelectrochemical water-splitting effect with a bent ZnO nanorod photoanode decorated with Ag nanoparticles. Nanotechnology, 2012, 23, 235401.	2.6	146
40	Advances in the LED Materials and Architectures for Energy-Saving Solid-State Lighting Toward "Lighting Revolution". IEEE Photonics Journal, 2012, 4, 613-619.	2.0	145
41	An Azaacene Derivative as Promising Electron-Transport Layer for Inverted Perovskite Solar Cells. Chemistry - an Asian Journal, 2016, 11, 2135-2138.	3.3	144
42	p-type conduction in unintentional carbon-doped ZnO thin films. Applied Physics Letters, 2007, 91, .	3.3	143
43	Carbon nanotube-ZnO nanocomposite electrodes for supercapacitors. Solid State Ionics, 2009, 180, 1525-1528.	2.7	142
44	A photometric investigation of ultra-efficient LEDs with high color rendering index and high luminous efficacy employing nanocrystal quantum dot luminophores. Optics Express, 2010, 18, 340.	3.4	141
45	Efficient tandem organic solar cells with an Al/MoO <sub>3</sub> intermediate layer. Applied Physics Letters, 2008, 93, 083305.	3.3	137
46	Highly Flexible, Electrically Driven, Top-Emitting, Quantum Dot Light-Emitting Stickers. ACS Nano, 2014, 8, 8224-8231.	14.6	135
47	An oleic acid-capped CdSe quantum-dot sensitized solar cell. Applied Physics Letters, 2009, 94, .	3.3	126
48	Ni <sup>2+</sup> transition sensing behaviors of ZnO nanotubes exposed to NO <sub>2</sub> gas. Nanotechnology, 2009, 20, 465501.	2.6	126
49	Polarized emission from CsPbX <sub>3</sub> perovskite quantum dots. Nanoscale, 2016, 8, 11565-11570.	5.6	125
50	Photochromic transparent wood for photo-switchable smart window applications. Journal of Materials Chemistry C, 2019, 7, 8649-8654.	5.5	125
51	Synthesis, Physical Properties, and Light-Emitting Diode Performance of Phenazine-Based Derivatives with Three, Five, and Nine Fused Six-Membered Rings. Journal of Organic Chemistry, 2015, 80, 3030-3035.	3.2	122
52	Synthesis, structure, and optoelectronic properties of a new twistacene 1,2,3,4,6,13-hexaphenyl-7,11-bisbenzo-pentacene. Journal of Materials Chemistry, 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. IEEE Transactions on Electron Devices, 2011, 58, 480-485.	3.0	121
54	Synthesis and Nonvolatile Memory Behaviors of Dioxatetraazapentacene Derivatives. ACS Applied Materials & Interfaces, 2013, 5, 6458-6462.	8.0	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.	14.9	117
56	Development of InP Quantum Dot-Based Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2020, 5, 1095-1106.	17.4	115
57	Propagation dynamics of an optical vortex imposed on an Airy beam. <i>Optics Letters</i> , 2010, 35, 4075.	3.3	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.	5.5	112
59	Synthesis, Structure, and Physical Properties of 5,7,14,16-Tetraphenyl-8,9,12,13-bisbenzo[ <i>a</i> ]hexatwistacene. <i>Chemistry - an Asian Journal</i> , 2012, 7, 561-564.	3.3	112
60	Synthesis, Characterization, and Bipolar Transporting Behavior of a New Twisted Polycyclic Aromatic Hydrocarbon: 1,4-Diphenyl-naphtho[2,3- <i>b</i> ]pyrene-6,7-dinitro-9-methyl Carboxylate. <i>Journal of Materials Chemistry - A</i> , 2010, 16, 7422-7426.	11.0	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.	6.7	108
62	Optimization of an inverted organic solar cell. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 985-991.	6.2	107
63	Hydrothermally grown nanostructured WO <sub>3</sub> films and their electrochromic characteristics. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 285501.	2.8	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.	16.0	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.	12.8	107
66	Giant enhancement of top emission from ZnO thin film by nanopatterned Pt. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	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.	10.3	104
68	On the initial growth of indium tin oxide on glass. <i>Applied Physics Letters</i> , 1996, 68, 2663-2665.	3.3	103
69	Printed all-solid flexible microsupercapacitors: towards the general route for high energy storage devices. <i>Nanotechnology</i> , 2014, 25, 094010.	2.6	100
70	Improved ITO thin films with a thin ZnO buffer layer by sputtering. <i>Thin Solid Films</i> , 2000, 360, 75-81.	1.8	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.	5.2	98
72	Low propagation loss SiN optical waveguide prepared by optimal low-hydrogen module. <i>Optics Express</i> , 2008, 16, 20809.	3.4	97

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73	Low work function metal modified ITO as cathode for inverted polymer solar cells. Solar Energy Materials and Solar Cells, 2010, 94, 1618-1621.	6.2	96
74	Spectral conversion for solar cell efficiency enhancement using YVO <sub>4</sub> :Bi <sup>3+</sup> ,Ln <sup>3+</sup> (Ln=Eu,Dy, Er, Ho, Eu, Sm,Ti)ETQq0.00rgBT /C	2.5	96
75	Solution Processed Tungsten Oxide Interfacial Layer for Efficient Hole-Injection in Quantum Dot Light-Emitting Diodes. Small, 2014, 10, 247-252.	10.0	96
76	Beyond OLED: Efficient Quantum Dot Light-Emitting Diodes for Display and Lighting Application. Chemical Record, 2019, 19, 1729-1752.	5.8	95
77	Nanostructural zinc oxide and its electrical and optical properties. Journal of Applied Physics, 2004, 95, 661-666.	2.5	93
78	Application of Nanostructures in Electrochromic Materials and Devices: Recent Progress. Materials, 2010, 3, 5029-5053.	2.9	93
79	Free-standing ZnO-CuO composite nanowire array films and their gas sensing properties. Nanotechnology, 2011, 22, 325704.	2.6	93
80	Near-white emitting QD-LED based on hydrophilic CdS nanocrystals. Journal of Luminescence, 2012, 132, 467-473.	3.1	93
81	Hole Transport Bilayer Structure for Quasi-2D Perovskite Based Blue Light-Emitting Diodes with High Brightness and Good Spectral Stability. Advanced Functional Materials, 2019, 29, 1905339.	14.9	92
82	InP/ZnS/ZnS Core/Shell Blue Quantum Dots for Efficient Light-Emitting Diodes. Advanced Functional Materials, 2020, 30, 2005303.	14.9	92
83	Strategies Toward Efficient Blue Perovskite Light-Emitting Diodes. Advanced Functional Materials, 2021, 31, 2100516.	14.9	92
84	Ultraviolet emission from a ZnO rod homojunction light-emitting diode. Applied Physics Letters, 2009, 95, .	3.3	91
85	Plasmonic Perovskite Light-Emitting Diodes Based on the Ag-CsPbBr <sub>3</sub> System. ACS Applied Materials & Interfaces, 2017, 9, 4926-4931.	8.0	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. Electrochemistry Communications, 2009, 11, 2265-2267.	4.7	90
87	Ferroelectric Transistors with Nanowire Channel: Toward Nonvolatile Memory Applications. ACS Nano, 2009, 3, 700-706.	14.6	89
88	InGaN/GaN light-emitting diode with a polarization tunnel junction. Applied Physics Letters, 2013, 102, .	3.3	89
89	Simultaneous Low-Order Phase Suppression and Defect Passivation for Efficient and Stable Blue Light-Emitting Diodes. ACS Energy Letters, 2020, 5, 2569-2579.	17.4	89
90	A p-n homojunction ZnO nanorod light-emitting diode formed by As ion implantation. Applied Physics Letters, 2008, 93, .	3.3	88

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91	Ultraviolet and visible electroluminescence from n-ZnO $\hat{\cdot}$ SiO $\hat{\cdot}$ (n,p)-Si heterostructured light-emitting diodes. Applied Physics Letters, 2008, 93, .	3.3	88
92	Properties of polycrystalline ZnO thin films by metal organic chemical vapor deposition. Journal of Crystal Growth, 2005, 281, 571-576.	1.5	87
93	Room-Temperature Ultraviolet Lasing from Zinc Oxide Microtubes. Japanese Journal of Applied Physics, 2003, 42, L1229-L1231.	1.5	86
94	Graphene-based transparent conductive electrodes for GaN-based light emitting diodes: Challenges and countermeasures. Nano Energy, 2015, 12, 419-436.	16.0	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.	3.2	86
96	Bond contraction and lone pair interaction at nitride surfaces. Journal of Applied Physics, 2001, 90, 2615-2617.	2.5	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.	2.3	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.	2.7	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.	2.8	82
101	Broadband absorption enhancement in randomly positioned silicon nanowire arrays for solar cell applications. Optics Letters, 2011, 36, 1884.	3.3	82
102	Advanced three-component ZnO/Ag/CdS nanocomposite photoanode for photocatalytic water splitting. Journal of Power Sources, 2014, 269, 466-472.	7.8	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.	14.9	82
104	Airy beams generated by a binary phase element made of polymer-dispersed liquid crystals. Optics Express, 2009, 17, 19365.	3.4	81
105	Inverted Quantum-Dot Light-Emitting Diodes Fabricated by All-Solution Processing. ACS Applied Materials & Interfaces, 2016, 8, 5493-5498.	8.0	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.	2.5	79
107	Effect of electric field strength on the length of anodized titania nanotube arrays. Journal of Electroanalytical Chemistry, 2009, 637, 6-12.	3.8	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.	5.5	79



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109	Effect of the Geometry of the Anodized Titania Nanotube Array on the Performance of Dye-Sensitized Solar Cells. Journal of Nanoscience and Nanotechnology, 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. Optics Letters, 2010, 35, 3372.	3.3	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. Journal of Materials Chemistry A, 2013, 1, 5212.	10.3	77
112	Effect of surfactant on the electro-optical properties of holographic polymer dispersed liquid crystal Bragg gratings. Optical Materials, 2005, 27, 1451-1455.	3.6	76
113	Efficient light-emitting diodes based on green perovskite nanocrystals with mixed-metal cations. Nano Energy, 2016, 30, 511-516.	16.0	76
114	Thermally stable transparent conducting and highly infrared reflective Ga-doped ZnO thin films by metal organic chemical vapor deposition. Optical Materials, 2011, 33, 768-772.	3.6	75
115	Refractive indices of textured indium tin oxide and zinc oxide thin films. Thin Solid Films, 2006, 510, 95-101.	1.8	74
116	Band parameters and electronic structures of wurtzite ZnO and ZnO <sup>+</sup> MgZnO quantum wells. Journal of Applied Physics, 2006, 99, 013702.	2.5	74
117	Exciton radiative lifetime in ZnO nanorods fabricated by vapor phase transport method. Applied Physics Letters, 2007, 90, 013107.	3.3	74
118	Defects Passivation With Dithienobenzodithiophene <sup>+</sup> -based <sup>+</sup> -conjugated Polymer for Enhanced Performance of Perovskite Solar Cells. Solar Rrl, 2019, 3, 1900029.	5.8	74
119	A negative <sup>+</sup> -positive tunable liquid-crystal microlens array by printing. Optics Express, 2009, 17, 4317.	3.4	73
120	Printable CsPbBr <sub>3</sub> perovskite quantum dot ink for coffee ring-free fluorescent microarrays using inkjet printing. Nanoscale, 2020, 12, 2569-2577.	5.6	73
121	Dye-sensitized solar cell with a titanium-oxide-modified carbon nanotube transparent electrode. Applied Physics Letters, 2011, 99, .	3.3	71
122	Green InP/ZnSeS/ZnS Core Multi <sup>+</sup> -shelled Quantum Dots Synthesized with Aminophosphine for Effective Display Applications. Advanced Functional Materials, 2021, 31, 2008453.	14.9	71
123	Twinned Zn <sub>2</sub> TiO <sub>4</sub> Spinel Nanowires Using ZnO Nanowires as a Template. Advanced Materials, 2007, 19, 1839-1844.	21.0	70
124	Inverted tandem organic solar cells with a MoO <sub>3</sub> /Ag/Al/Ca intermediate layer. Applied Physics Letters, 2010, 97, 053303.	3.3	69
125	Homogenous Alloys of Formamidinium Lead Triiodide and Cesium Tin Triiodide for Efficient Ideal <sup>+</sup> -bandgap Perovskite Solar Cells. Angewandte Chemie - International Edition, 2017, 56, 12658-12662.	13.8	69
126	Enhanced field emission from injector-like ZnO nanostructures with minimized screening effect. Nanotechnology, 2007, 18, 135604.	2.6	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.	3.3	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.	14.9	68
129	Excitonics of semiconductor quantum dots and wires for lighting and displays. <i>Laser and Photonics Reviews</i> , 2014, 8, 73-93.	8.7	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.	5.5	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.	8.0	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.	5.5	66
133	Ultraviolet amplified spontaneous emission from self-organized network of zinc oxide nanofibers. <i>Applied Physics Letters</i> , 2005, 86, 011118.	3.3	65
134	Propagation properties of an optical vortex carried by an Airy beam: experimental implementation. <i>Optics Letters</i> , 2011, 36, 1617.	3.3	65
135	Co-sensitized quantum dot solar cell based on ZnO nanowire. <i>Applied Surface Science</i> , 2010, 256, 7438-7441.	6.1	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.	4.7	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, .	3.3	64
138	Optical absorption enhancement in nanopore textured-silicon thin film for photovoltaic application. <i>Optics Letters</i> , 2010, 35, 40.	3.3	64
139	A bright cadmium-free, hybrid organic/quantum dot white light-emitting diode. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	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.	12.8	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.	3.3	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.	4.1	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, .	3.3	63
144	A Study on Graphene-Metal Contact. <i>Crystals</i> , 2013, 3, 257-274.	2.2	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. Scientific Reports, 2014, 4, 4085.	3.3	61
146	Physicochemical properties and oral bioavailability of ursolic acid nanoparticles using supercritical anti-solvent (SAS) process. Food Chemistry, 2012, 132, 319-325.	8.2	60
147	Correlation between carrier recombination and p-type doping in P monodoped and In <sup>+</sup> P codoped ZnO epilayers. Applied Physics Letters, 2007, 90, 152108.	3.3	59
148	Electroluminescence from a n-ZnO nanorod/p-CuAlO <sub>2</sub> heterojunction light-emitting diode. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 41, 635-639.	2.7	59
149	Dependence of the properties of hydrothermally grown ZnO on precursor concentration. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 41, 1423-1426.	2.7	59
150	Electroluminescence Efficiency Enhancement in Quantum Dot Light-Emitting Diodes by Embedding a Silver Nanoisland Layer. Advanced Optical Materials, 2015, 3, 1439-1445.	7.3	59
151	Electrically tunable two-dimensional holographic photonic crystal fabricated by a single diffractive element. Applied Physics Letters, 2006, 89, 171101.	3.3	58
152	A plasmonically enhanced polymer solar cell with gold-silica core-shell nanorods. Organic Electronics, 2013, 14, 2360-2368.	2.6	58
153	Highly Luminescent and Stable Green Quasi-2D Perovskite-Embedded Polymer Sheets by Inkjet Printing. Advanced Functional Materials, 2020, 30, 1910817.	14.9	58
154	Cluster coarsening in zinc oxide thin films by postgrowth annealing. Journal of Applied Physics, 2006, 100, 033502.	2.5	57
155	Ligand capping effect for dye solar cells with a CdSe quantum dot sensitized ZnO nanorod photoanode. Optics Express, 2010, 18, 1296.	3.4	57
156	Low power CMOS level shifters by bootstrapping technique. Electronics Letters, 2002, 38, 876.	1.0	56
157	Bilayer ZnO nanostructure fabricated by chemical bath and its application in quantum dot sensitized solar cell. Applied Surface Science, 2009, 255, 7508-7511.	6.1	56
158	Aligned ZnO nanorods synthesized by a simple hydrothermal reaction. Journal Physics D: Applied Physics, 2006, 39, 1690-1693.	2.8	55
159	Quenching of surface-exciton emission from ZnO nanocombs by plasma immersion ion implantation. Applied Physics Letters, 2007, 91, .	3.3	55
160	One-dimensional anisotropic photonic crystal with a tunable bandgap. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 159.	2.1	54
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