Xiao Wei Sun

List of Publications by Year
in descending order

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840	31,573	4146 87	9861 141
papers	citations	h-index	g-index

854	854	854	29276
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Efficient and stable mesoscopic perovskite solar cell in high humidity by localized Dion-Jacobson 2Dâ€3D heterostructures. Nano Energy, 2022, 91, 106666.	16.0	42
2	Enhanced performance of an AlGaN-based deep ultraviolet light-emitting diode using a p⁺-GaN/SiO₂/ITO tunnel junction. Optics Letters, 2022, 47, 798.	3.3	3
3	Realization of inversely designed metagrating for highly efficient large angle beam deflection. Optics Express, 2022, 30, 7566.	3.4	4
4	The mechanism of ligand-induced chiral transmission through a top-down selective domain etching process. Materials Chemistry Frontiers, 2022, 6, 1194-1208.	5.9	2
5	Efficient CsPbBr₃ Nanoplatelet-Based Blue Light-Emitting Diodes Enabled by Engineered Surface Ligands. ACS Energy Letters, 2022, 7, 1137-1145.	17.4	52
6	Light extraction employing optical tunneling in blue InP quantum dot light-emitting diodes. Applied Physics Letters, 2022, 120, .	3.3	11
7	Patterning of quantum dot lightâ€emitting diodes based on IGZO films. Journal of the Society for Information Display, 2022, 30, 585-592.	2.1	0
8	Coherent surface-to-bulk vibrational coupling in the 2D topologically trivial insulator Bi2Se3 monitored by ultrafast transient absorption spectroscopy. Scientific Reports, 2022, 12, 4722.	3.3	3
9	In Situ Growth Mechanism for Highâ€Quality Hybrid Perovskite Singleâ€Crystal Thin Films with High Area to Thickness Ratio: Looking for the Sweet Spot. Advanced Science, 2022, 9, e2104788.	11.2	16
10	Organic-Phase Synthesis of Blue Emission Copper Nanoparticles for Light-Emitting Diodes. ACS Applied Nano Materials, 2022, 5, 3967-3972.	5.0	3
11	Screen printing strategy for fabricating flexible crystallized perovskite nanocomposite patterns with high photoluminescence. Flexible and Printed Electronics, 2022, 7, 015010.	2.7	1
12	Full-Color Quantum Dot Light-Emitting Diodes Based on Microcavities. IEEE Photonics Journal, 2022, 14, 1-9.	2.0	7
13	Red and Green Quantum Dot Color Filter for Full-Color Micro-LED Arrays. Micromachines, 2022, 13, 595.	2.9	10
14	On Cordelairâ€“Greil Model about Electrophoretic Deposition. Small, 2022, 18, .	10.0	2
15	High Quantum Yield Blue InP/ZnS/ZnS Quantum Dots Based on Bromine Passivation for Efficient Blue Lightâ€Emitting Diodes. Advanced Optical Materials, 2022, 10, .	7.3	24
16	On the accurate characterization of quantum-dot light-emitting diodes for display applications. Npj Flexible Electronics, 2022, 6, .	10.7	8
17	Perovskite Phase Analysis by SEM Facilitating Efficient Quasiâ€2D Perovskite Lightâ€Emitting Device Designs. Advanced Optical Materials, 2022, 10, .	7.3	6
18	Capacitanceâ€“voltage characteristics of perovskite light-emitting diodes: Modeling and implementing on the analysis of carrier behaviors. Applied Physics Letters, 2022, 120, .	3.3	16

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19	Fabrication of Highly Efficient Perovskite Nanocrystal Light-Emitting Diodes via Inkjet Printing. Micromachines, 2022, 13, 983.	2.9	5
20	Absorption Modulation, Enhancement, and Narrowing Using Sub-Wavelength Gratings. , 2022, , .		0
21	Thermally Processed Quantum-Dot Polypropylene Composite Color Converter Film for Displays. ACS Applied Materials & Interfaces, 2022, 14, 31160-31169.	8.0	2
22	Efficient Infrared Solar Cells Employing Quantum Dot Solids with Strong Interâ€Dot Coupling and Efficient Passivation. Advanced Functional Materials, 2021, 31, 2006864.	14.9	16
23	Circularly polarised lasing from all-solid organic semiconductor activated external distributed feedback based on polarisation grating. Liquid Crystals, 2021, 48, 1186-1193.	2.2	1
24	Eliminating light depolarization from metal microstructure in liquid crystal displays. Journal of the Society for Information Display, 2021, 29, 170-178.	2.1	0
25	High-performance perovskite light-emitting diodes based on double hole transport layers. Journal of Materials Chemistry C, 2021, 9, 2115-2122.	5.5	25
26	Green InP/ZnSeS/ZnS Core Multiâ€Shelled Quantum Dots Synthesized with Aminophosphine for Effective Display Applications. Advanced Functional Materials, 2021, 31, 2008453.	14.9	71
27	Pâ€12.3: Investigation of Bowing Effect of 4â€™â€™ Epitaxial Wafer and Reliability of GaNâ€based Microâ€LED Devices. Digest of Technical Papers SID International Symposium, 2021, 52, 601-604.	0.3	0
28	51.1: Invited Paper: Quantum dot displays. Digest of Technical Papers SID International Symposium, 2021, 52, 338-338.	0.3	0
29	37.3: Suppressing the Trapâ€assisted Recombination for High Performance InP/ZnS Green Quantumâ€dot Lightâ€emitting Diodes. Digest of Technical Papers SID International Symposium, 2021, 52, 259-262.	0.3	0
30	EA-Directing Formamidinium-Based Perovskite Microwires with A-Site Doping. ACS Omega, 2021, 6, 7157-7164.	3.5	1
31	Color revolution: toward ultra-wide color gamut displays. Journal Physics D: Applied Physics, 2021, 54, 213002.	2.8	9
32	Colloidal PbS Quantum Dots for Visible-to-Near-Infrared Optical Internet of Things. IEEE Photonics Journal, 2021, 13, 1-11.	2.0	4
33	Nanopatterned metallic transparent electrodes for the near-infrared spectrum. AIP Advances, 2021, 11, 045005.	1.3	3
34	Clarifying Ultrafast Carrier Dynamics in Ultrathin Films of the Topological Insulator Bi₂Se₃ Using Transient Absorption Spectroscopy. ACS Photonics, 2021, 8, 1191-1205.	6.6	20
35	63â€2: Student Paper: Thinâ€film Compatible Process High Resolution Patterning of Quantum Dots Lightâ€emitting Diodes. Digest of Technical Papers SID International Symposium, 2021, 52, 923-925.	0.3	2
36	12â€1: Controlling the Pixel Colors of Quantum Dot Thin Films by Patterning the Substrates. Digest of Technical Papers SID International Symposium, 2021, 52, 143-146.	0.3	1

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37	Pâ€64: Improvement in Inkjet Printed Green QLED Efficiency. Digest of Technical Papers SID International Symposium, 2021, 52, 1305-1307.	0.3	0
38	Strategies Toward Efficient Blue Perovskite Lightâ€Emitting Diodes. Advanced Functional Materials, 2021, 31, 2100516.	14.9	92
39	Improved Ink-Jet-Printed CdSe Quantum Dot Light-Emitting Diodes with Minimized Hole Transport Layer Erosion. ACS Applied Electronic Materials, 2021, 3, 3005-3014.	4.3	11
40	Dynamic Opening of a Gap in Dirac Surface States of the Thin-Film 3D Topological Insulator Bi₂Se₃ Driven by the Dynamic Rashba Effect. Journal of Physical Chemistry Letters, 2021, 12, 5593-5600.	4.6	5
41	Alloyed Green-Emitting CdZnSeS/ZnS Quantum Dots with Dense Protective Layers for Stable Lighting and Display Applications. ACS Applied Materials & Interfaces, 2021, 13, 32217-32225.	8.0	13
42	Identifying the Surface Charges and their Impact on Carrier Dynamics in Quantumâ€Dot Lightâ€Emitting Diodes by Impedance Spectroscopy. Advanced Optical Materials, 2021, 9, 2100389.	7.3	16
43	Efficient transparent quantum-dot light-emitting diodes with an inverted architecture. Optical Materials Express, 2021, 11, 2145.	3.0	2
44	Universal Strategy for Improving Perovskite Photodiode Performance: Interfacial Builtâ€in Electric Field Manipulated by Unintentional Doping. Advanced Science, 2021, 8, e2101729.	11.2	17
45	Large-area patterning of full-color quantum dot arrays beyond 1000 pixels per inch by selective electrophoretic deposition. Nature Communications, 2021, 12, 4603.	12.8	64
46	Pâ€14.3: Inkjet Printed QLED with Enhanced Efficiency and Stability Based on Optimized Hole Transport Layer with Less Side Emission. Digest of Technical Papers SID International Symposium, 2021, 52, 1056-1056.	0.3	0
47	Pâ€4.6: Ultraâ€highâ€resolution Quantum Dots Color Converter with Notable Uniformity. Digest of Technical Papers SID International Symposium, 2021, 52, 765-767.	0.3	1
48	Pâ€4.10: Quantum Dot Films for Color Converter Application by Electrophoretic Deposition. Digest of Technical Papers SID International Symposium, 2021, 52, 775-777.	0.3	0
49	Pâ€4.7: Fundamental Research on High Resolution Full Color Microâ€LED Display with Quantum Dot Color Conversion by Lithography. Digest of Technical Papers SID International Symposium, 2021, 52, 768-770.	0.3	0
50	Pâ€14.1: Improving the Performance of Inkjet Printed QLED by Annealing Postâ€treatment. Digest of Technical Papers SID International Symposium, 2021, 52, 1050-1052.	0.3	0
51	Pâ€14.2: Optimizing the Performance of Inkjet Printed Green QLED by Precisely Control of Shell Thickness. Digest of Technical Papers SID International Symposium, 2021, 52, 1053-1055.	0.3	0
52	Pâ€6.9: Patterning of Quantum Dots Lightâ€emitting Diodes Based on IGZO Films. Digest of Technical Papers SID International Symposium, 2021, 52, 868-871.	0.3	0
53	Hole Scavenging and Electronâ€“Hole Pair Photoproduction Rate: Two Mandatory Key Factors to Control Single-Tip Auâ€“CdSe/CdS Nanoheterodimers. ACS Nano, 2021, 15, 15328-15341.	14.6	7
54	High Performance Inkjetâ€Printed Quantumâ€Dot Lightâ€Emitting Diodes with High Operational Stability. Advanced Optical Materials, 2021, 9, 2101069.	7.3	36

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55	Highly efficient transparent quantum-dot light-emitting diodes based on inorganic double electron-transport layers. Photonics Research, 2021, 9, 1979.	7.0	8
56	Improved blue quantum dot light-emitting diodes via chlorine passivated ZnO nanoparticle layer*. Chinese Physics B, 2021, 30, 118503.	1.4	3
57	Highâ€Performance Ultrapure Green CdSe/CdS Core/Crown Nanoplatelet Lightâ€Emitting Diodes by Suppressing Nonradiative Energy Transfer. Advanced Electronic Materials, 2021, 7, 2000965.	5.1	17
58	Operando structure degradation study of PbS quantum dot solar cells. Energy and Environmental Science, 2021, 14, 3420-3429.	30.8	17
59	Analyzing and modulating energy transfer in ternary-emissive system of quantum dot light-emitting diodes towards efficient emission. Optics Express, 2021, 29, 36964.	3.4	4
60	Realizing White Emission of Single-Layer Dual-Color Perovskite Light-Emitting Devices by Modulating the Electroluminescence Emission Spectra. Journal of Physical Chemistry Letters, 2021, 12, 10197-10203.	4.6	16
61	Enhancing hole injection by electric dipoles for efficient blue InP QLEDs. Applied Physics Letters, 2021, 119, .	3.3	13
62	On the impact of a metalâ€“insulatorâ€“semiconductor structured n-electrode for AlGaN-based DUV LEDs. Applied Optics, 2021, 60, 11222.	1.8	4
63	Controlling morphological and electro-optical properties via the phase separation in polymer/liquid-crystal composite materials. Liquid Crystals, 2020, 47, 238-247.	2.2	18
64	A Highly Stable and Tunable Visibleâ€Nearâ€IR Electrochromic Allâ€inâ€One Gel Device. ChemPhotoChem, 2020, 4, 357-365.	3.0	15
65	Printable CsPbBr₃ perovskite quantum dot ink for coffee ring-free fluorescent microarrays using inkjet printing. Nanoscale, 2020, 12, 2569-2577.	5.6	73
66	Deep Blue Emission of All-Bromide-Based Cesium Lead Perovskite Nanocrystals. Journal of Physical Chemistry C, 2020, 124, 1617-1622.	3.1	14
67	Exciton-Polariton Properties in Planar Microcavity of Millimeter-Sized Two-Dimensional Perovskite Sheet. ACS Applied Materials & Interfaces, 2020, 12, 5081-5089.	8.0	14
68	Circularly polarized luminescence from semiconductor quantum rods templated by self-assembled cellulose nanocrystals. Journal of Materials Chemistry C, 2020, 8, 1048-1053.	5.5	32
69	Low reabsorption and stability enhanced luminescent solar concentrators based on silica encapsulated quantum rods. Solar Energy Materials and Solar Cells, 2020, 206, 110321.	6.2	17
70	Ultrapure Green Light-Emitting Diodes Based on CdSe/CdS Core/Crown Nanoplatelets. IEEE Journal of Quantum Electronics, 2020, 56, 1-6.	1.9	14
71	51â€3: Efficient InP/ZnS Quantum Dot Lightâ€emitting Diodes with Improved Electron Confinement. Digest of Technical Papers SID International Symposium, 2020, 51, 754-757.	0.3	1
72	65â€2: High Luminescent Red Quantum Dot Lightâ€Emitting Diodes by Inkjet Printing. Digest of Technical Papers SID International Symposium, 2020, 51, 964-967.	0.3	2

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73	Pâ€113: In Situ Fabrication of Organicâ€inorganic Perovskite Polymer Composite Films for Ultrawide Color Gamut LCD display. Digest of Technical Papers SID International Symposium, 2020, 51, 1775-1778.	0.3	1
74	Dopantâ€Free and Greenâ€Solventâ€Processable Holeâ€Transporting Materials for Highly Efficient Inverted Planar Perovskite Solar Cells. Solar Rrl, 2020, 4, 2070105.	5.8	4
75	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
76	Enhanced hole injection assisted by electric dipoles for efficient perovskite light-emitting diodes. Communications Materials, 2020, 1, .	6.9	33
77	Dopantâ€Free and Greenâ€Solventâ€Processable Holeâ€Transporting Materials for Highly Efficient Inverted Planar Perovskite Solar Cells. Solar Rrl, 2020, 4, 2000327.	5.8	16
78	Highly Efficient Lead-Free (Bi,Ce)-Codoped Cs₂Ag_{0.4}Na_{0.6}InCl₆ Double Perovskites for White Light-Emitting Diodes. Chemistry of Materials, 2020, 32, 7814-7821.	6.7	108
79	Spray-deposited PbS colloidal quantum dot solid for near-infrared photodetectors. Nano Energy, 2020, 78, 105254.	16.0	35
80	Observing dynamic and static Rashba effects in a thin layer of 3D hybrid perovskite nanocrystals using transient absorption spectroscopy. AIP Advances, 2020, 10, .	1.3	13
81	Multiple Cations Enhanced Defect Passivation of Blue Perovskite Quantum Dots Enabling Efficient Lightâ€Emitting Diodes. Advanced Optical Materials, 2020, 8, 2001494.	7.3	30
82	Structural phase transitions and photoluminescence mechanism in a layer of 3D hybrid perovskite nanocrystals. AIP Advances, 2020, 10, .	1.3	14
83	Impact of the resistive switching effects in ZnMgO electron transport layer on the aging characteristics of quantum dot light-emitting diodes. Applied Physics Letters, 2020, 117, .	3.3	26
84	In situ Grazing-Incidence Small-Angle X-ray Scattering Observation of Gold Sputter Deposition on a PbS Quantum Dot Solid. ACS Applied Materials & Interfaces, 2020, 12, 46942-46952.	8.0	7
85	Establishing Multifunctional Interface Layer of Perovskite Ligand Modified Lead Sulfide Quantum Dots for Improving the Performance and Stability of Perovskite Solar Cells. Small, 2020, 16, e2002628.	10.0	20
86	Enhancing stability of CsPbBr 3 nanocrystals lightâ€emitting diodes through polymethylmethacrylate physical adsorption. Nano Select, 2020, 1, 372-381.	3.7	5
87	Suppressing Strong Excitonâ€“Phonon Coupling in Blue Perovskite Nanoplatelet Solids by Binary Systems. Angewandte Chemie, 2020, 132, 22340-22346.	2.0	2
88	Enhanced light emission of quantum dot films by scattering of poly(zinc methacrylate) coating CdZnSeS/ZnS quantum dots and high refractive index BaTiO₃ nanoparticles. RSC Advances, 2020, 10, 31705-31710.	3.6	9
89	InP/ZnS/ZnS Core/Shell Blue Quantum Dots for Efficient Lightâ€Emitting Diodes. Advanced Functional Materials, 2020, 30, 2005303.	14.9	92
90	Suppressing Strong Excitonâ€“Phonon Coupling in Blue Perovskite Nanoplatelet Solids by Binary Systems. Angewandte Chemie - International Edition, 2020, 59, 22156-22162.	13.8	24

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91	Optical Tunneling to Improve Light Extraction in Quantum Dot and Perovskite Light-Emitting Diodes. IEEE Photonics Journal, 2020, 12, 1-14.	2.0	5
92	Pâ€110: Investigation of Bowing Effect of 4" Epitaxial Wafer and Reliability of GaNâ€based Microâ€LED Devices. Digest of Technical Papers SID International Symposium, 2020, 51, 1764-1767.	0.3	3
93	Facile In Situ Fabrication of Cs₄PbBr₆/CsPbBr₃ Nanocomposite Containing Polymer Films for Ultrawide Color Gamut Displays. Advanced Optical Materials, 2020, 8, 2000232.	7.3	45
94	Bright infra-red quantum dot light-emitting diodes through efficient suppressing of electrons. Applied Physics Letters, 2020, 116, .	3.3	11
95	High performance top-emitting quantum dot light-emitting diodes with interfacial modification. AIP Advances, 2020, 10, .	1.3	5
96	Quantumâ€Dot Luminescent Microspheres: Atomic Layer Deposition Assisted Encapsulation of Quantum Dot Luminescent Microspheres toward Display Applications (Advanced Optical Materials 12/2020). Advanced Optical Materials, 2020, 8, 2070048.	7.3	0
97	Spectral Dynamics and Multiphoton Absorption Properties of All-Inorganic Perovskite Nanorods. Journal of Physical Chemistry Letters, 2020, 11, 4817-4825.	4.6	26
98	Development of InP Quantum Dot-Based Light-Emitting Diodes. ACS Energy Letters, 2020, 5, 1095-1106.	17.4	115
99	Hybrid plasmonic nano-emitters with controlled single quantum emitter positioning on the local excitation field. Nature Communications, 2020, 11, 3414.	12.8	33
100	Colloidal PbS quantum dot stacking kinetics during deposition via printing. Nanoscale Horizons, 2020, 5, 880-885.	8.0	21
101	Cost-Efficient Printing of Graphene Nanostructures on Smart Contact Lenses. ACS Applied Materials & Interfaces, 2020, 12, 10820-10828.	8.0	13
102	In Situ Tin(II) Complex Antisolvent Process Featuring Simultaneous Quasiâ€Coreâ€“Shell Structure and Heterojunction for Improving Efficiency and Stability of Lowâ€Bandgap Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 1903013.	19.5	31
103	Enhanced frequency and amplitude modulation of THz metasurfaces based on CdSe/CdS quantum rods. Optics Communications, 2020, 471, 126014.	2.1	2
104	Highly Luminescent and Stable Green Quasiâ€2D Perovskiteâ€Embedded Polymer Sheets by Inkjet Printing. Advanced Functional Materials, 2020, 30, 1910817.	14.9	58
105	Efficient defect-passivation and charge-transfer with interfacial organophosphorus ligand modification for enhanced performance of perovskite solar cells. Solar Energy Materials and Solar Cells, 2020, 211, 110527.	6.2	54
106	Up-Conversion Device Based on Quantum Dots With High-Conversion Efficiency Over 6%. IEEE Access, 2020, 8, 71041-71049.	4.2	9
107	In Situ Growth of Allâ€Inorganic Perovskite Single Crystal Arrays on Electron Transport Layer. Advanced Science, 2020, 7, 1902767.	11.2	21
108	Atomic Layer Deposition Assisted Encapsulation of Quantum Dot Luminescent Microspheres toward Display Applications. Advanced Optical Materials, 2020, 8, 1902118.	7.3	22

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109	Strong hot-phonon bottleneck effect in all-inorganic perovskite nanocrystals. Applied Physics Letters, 2020, 116, .	3.3	19
110	Irreversible accumulated SERS behavior of the molecule-linked silver and silver-doped titanium dioxide hybrid system. Nature Communications, 2020, 11, 1785.	12.8	107
111	Factors influencing the working temperature of quantum dot light-emitting diodes. Optics Express, 2020, 28, 34167.	3.4	9
112	(Invited) Quantum Dot Displays. ECS Meeting Abstracts, 2020, MA2020-01, 1086-1086.	0.0	0
113	Lead Sulfide Quantum Dot Photodetector with Enhanced Responsivity through a Two-Step Ligand-Exchange Method. ACS Applied Nano Materials, 2019, 2, 6135-6143.	5.0	52
114	Hole Transport Bilayer Structure for Quasiâ€2D Perovskite Based Blue Lightâ€Emitting Diodes with High Brightness and Good Spectral Stability. Advanced Functional Materials, 2019, 29, 1905339.	14.9	92
115	Direct and Indirect Recombination and Thermal Kinetics of Excitons in Colloidal All-Inorganic Lead Halide Perovskite Nanocrystals. Journal of Physical Chemistry C, 2019, 123, 19844-19850.	3.1	21
116	Optoelectronic performance of AgNW transparent conductive films with different width-to-height ratios and a figure of merit embodying an optical haze. AIP Advances, 2019, 9, .	1.3	4
117	Perovskite Light-Emitting Diodes Based on FAPb_{1â^'} _x Sn _x Br₃ Nanocrystals Synthesized at Room Temperature. IEEE Nanotechnology Magazine, 2019, 18, 1050-1056.	2.0	12
118	Effect of Lateral Size and Surface Passivation on the Near-Band-Edge Excitonic Emission from Quasi-Two-Dimensional CdSe Nanoplatelets. ACS Applied Materials & Interfaces, 2019, 11, 41821-41827.	8.0	23
119	30.3: Microâ€LED Display and Its Mass Manufacturing. Digest of Technical Papers SID International Symposium, 2019, 50, 329-329.	0.3	0
120	7.4: Metal Halide Perovskite Nanophosphors for Microâ€LEDs. Digest of Technical Papers SID International Symposium, 2019, 50, 65-68.	0.3	0
121	54.3: Invited Paper: High photoinduced ordering and controllable photostability of hydrophilic azobenzene material based on relative humidity and its application in 2D polarization gratings. Digest of Technical Papers SID International Symposium, 2019, 50, 590-590.	0.3	0
122	Highly Polarized Active Fluorescent Enhancement Polymer Film With Quantum Rods Aligned by Ink-Jet Printing. IEEE Journal of Quantum Electronics, 2019, 55, 1-6.	1.9	4
123	Highâ€Performance Inverted Planar Perovskite Solar Cells Enhanced by Thickness Tuning of New Dopantâ€Free Hole Transporting Layer. Small, 2019, 15, e1904715.	10.0	47
124	Branched capping ligands improve the stability of cesium lead halide (CsPbBr₃) perovskite quantum dots. Journal of Materials Chemistry C, 2019, 7, 11251-11257.	5.5	41
125	Double-Shelled InP/ZnMnS/ZnS Quantum Dots for Light-Emitting Devices. ACS Omega, 2019, 4, 18961-18968.	3.5	20
126	Beyond OLED: Efficient Quantum Dot Lightâ€Emitting Diodes for Display and Lighting Application. Chemical Record, 2019, 19, 1729-1752.	5.8	95

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127	Surface modification toward luminescent and stable silica-coated quantum dots color filter. Science China Materials, 2019, 62, 1463-1469.	6.3	5
128	Reduced Working Temperature of Quantum Dots-Light-Emitting Diodes Optimized by Quantum Dots at Silica-on-Chip Structure. Journal of Electronic Packaging, Transactions of the ASME, 2019, 141, .	1.8	6
129	Efficient visible light modulation based on electrically tunable all dielectric metasurfaces embedded in thin-layer nematic liquid crystals. Scientific Reports, 2019, 9, 8673.	3.3	41
130	Pâ€76: Origin and Improvement of LCD Reflectivity. Digest of Technical Papers SID International Symposium, 2019, 50, 1522-1525.	0.3	0
131	Pâ€111: Selfâ€Driven Lightâ€Emitting Diodes Based on Formamidinium Lead Halide Perovskite Nanocrystals. Digest of Technical Papers SID International Symposium, 2019, 50, 1669-1672.	0.3	1
132	4â€4: Flexible Quantum Dot Color Converter Film for Microâ€LED Applications. Digest of Technical Papers SID International Symposium, 2019, 50, 30-33.	0.3	27
133	Pâ€122: High Quantum Yield Green and Red CdSe/CdS Dotâ€inâ€Rods and Their Electroluminescent Light Emitting Diodes. Digest of Technical Papers SID International Symposium, 2019, 50, 1705-1708.	0.3	3
134	Pâ€125: High Quantum Yield InP/ZnMnS/ZnS Quantum Dots. Digest of Technical Papers SID International Symposium, 2019, 50, 1716-1719.	0.3	2
135	Photochromic transparent wood for photo-switchable smart window applications. Journal of Materials Chemistry C, 2019, 7, 8649-8654.	5.5	125
136	Typeâ€Switchable Inverter and Amplifier Based on Highâ€Performance Ambipolar Blackâ€Phosphorus Transistors. Advanced Electronic Materials, 2019, 5, 1900133.	5.1	9
137	Defects Passivation With Dithienobenzodithiopheneâ€based Ï€â€conjugated Polymer for Enhanced Performance of Perovskite Solar Cells. Solar Rrl, 2019, 3, 1900029.	5.8	74
138	Chiral CdSe nanoplatelets as an ultrasensitive probe for lead ion sensing. Nanoscale, 2019, 11, 9327-9334.	5.6	39
139	Highly Polarized Fluorescent Film Based on Aligned Quantum Rods by Contact Ink-Jet Printing Method. IEEE Photonics Journal, 2019, 11, 1-11.	2.0	5
140	Ultrawide color gamut <scp>LCD</scp> display with <scp>CdSe/CdS</scp> nanoplatelets. Journal of the Society for Information Display, 2019, 27, 587-596.	2.1	14
141	Improving blue quantum dot light-emitting diodes by a lithium fluoride interfacial layer. Applied Physics Letters, 2019, 114, .	3.3	32
142	Alternating-current driven quantum-dot light-emitting diodes with high brightness. Nanoscale, 2019, 11, 5231-5239.	5.6	17
143	All-Perovskite Photodetector with Fast Response. Nanoscale Research Letters, 2019, 14, 291.	5.7	48
144	A Quantum Dot Polarizer for Liquid Crystal Displays With Much Improved Efficiency and Viewing Angle. IEEE Journal of Quantum Electronics, 2019, 55, 1-6.	1.9	4

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145	High-performance all-solution-processed quantum dot near-infrared-to-visible upconversion devices for harvesting photogenerated electrons. Applied Physics Letters, 2019, 115, 221103.	3.3	11
146	Solution-Processed Double-Junction Quantum-Dot Light-Emitting Diodes with an EQE of Over 40%. ACS Applied Materials & Interfaces, 2019, 11, 1065-1070.	8.0	44
147	3D Photoluminescent Nanostructures Containing Quantum Dots Fabricated by Twoâ€Photon Polymerization: Influence of Quantum Dots on the Spatial Resolution of Laser Writing. Advanced Materials Technologies, 2019, 4, 1800522.	5.8	35
148	High Quantum Yield Colloidal Semiconducting Nanoplatelets and High Color Purity Nanoplatelet QLED. IEEE Nanotechnology Magazine, 2019, 18, 220-225.	2.0	15
149	Recent advances in quantum dot-based light-emitting devices: Challenges and possible solutions. Materials Today, 2019, 24, 69-93.	14.2	213
150	Two-dimensional liquid crystal polarization grating via linearly polarized light modified multi-beam polarization interferometry. Optics Express, 2019, 27, 13061.	3.4	7
151	Electrically switchable photonic crystals based on liquid-crystal-infiltrated TiO₂-inverse opals. Optics Express, 2019, 27, 15391.	3.4	8
152	Multiband enhancement of magnetic dipole emission with tapered hollow hyperbolic metamaterials. Optics Express, 2019, 27, 15565.	3.4	7
153	Identical emission enhancement for arbitrary-orientation magnetic dipole emitters in silicon hollow nanocavity. Optics Express, 2019, 27, 25931.	3.4	8
154	A spatio-temporal multiplexing multi-view display using a lenticular lens and a beam steering screen. Optics Communications, 2018, 420, 168-173.	2.1	8
155	Full color quantum dot lightâ€emitting diodes patterned by photolithography technology. Journal of the Society for Information Display, 2018, 26, 121-127.	2.1	33
156	High-efficiency all-inorganic full-colour quantum dot light-emitting diodes. Nano Energy, 2018, 46, 229-233.	16.0	52
157	Electrically Switchable, Hyperâ€Reflective Blue Phase Liquid Crystals Films. Advanced Optical Materials, 2018, 6, 1700891.	7.3	33
158	Efficient Red/Green/Blue Tandem Quantum-Dot Light-Emitting Diodes with External Quantum Efficiency Exceeding 21%. ACS Nano, 2018, 12, 697-704.	14.6	234
159	Employing Polar Solvent Controlled Ionization in Precursors for Synthesis of Highâ€Quality Inorganic Perovskite Nanocrystals at Room Temperature. Advanced Functional Materials, 2018, 28, 1706000.	14.9	82
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