

# Kai Wang

## List of Publications by Citations

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262  
papers

6,674  
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g-index

304  
ext. papers

8,405  
ext. citations

6.8  
avg, IF

6.23  
L-index

#	Paper	IF	Citations
262	A pilot study in non-human primates shows no adverse response to intravenous injection of quantum dots. <i>Nature Nanotechnology</i> , <b>2012</b> , 7, 453-8	28.7	361
261	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. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 4595-4600	15.6	361
260	Heat and fluid flow in high-power LED packaging and applications. <i>Progress in Energy and Combustion Science</i> , <b>2016</b> , 56, 1-32	33.6	284
259	Hybrid Perovskite Light-Emitting Diodes Based on Perovskite Nanocrystals with Organic-Inorganic Mixed Cations. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606405	24	189
258	Halide-Rich Synthesized Cesium Lead Bromide Perovskite Nanocrystals for Light-Emitting Diodes with Improved Performance. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 5168-5173	9.6	187
257	Quasi-Two-Dimensional Halide Perovskite Single Crystal Photodetector. <i>ACS Nano</i> , <b>2018</b> , 12, 4919-4929	16.7	178
256	Optical Analysis of Color Distribution in White LEDs With Various Packaging Methods. <i>IEEE Photonics Technology Letters</i> , <b>2008</b> , 20, 2027-2029	2.2	140
255	Design of compact freeform lens for application specific Light-Emitting Diode packaging. <i>Optics Express</i> , <b>2010</b> , 18, 413-25	3.3	138
254	Measurement and numerical studies of optical properties of YAG:Ce phosphor for white light-emitting diode packaging. <i>Applied Optics</i> , <b>2010</b> , 49, 247-57	0.2	130
253	Efficient Perovskite Hybrid Solar Cells by Highly Electrical Conductive PEDOT:PSS Hole Transport Layer. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1501773	21.8	113
252	Stable Efficiency Exceeding 20.6% for Inverted Perovskite Solar Cells through Polymer-Optimized PCBM Electron-Transport Layers. <i>Nano Letters</i> , <b>2019</b> , 19, 3313-3320	11.5	111
251	Large Stokes Shift and High Efficiency Luminescent Solar Concentrator Incorporated with CuInS <sub>2</sub> /ZnS Quantum Dots. <i>Scientific Reports</i> , <b>2015</b> , 5, 17777	4.9	108
250	Morphology-dependent electrochemical properties of cobalt-based metal organic frameworks for supercapacitor electrode materials. <i>Electrochimica Acta</i> , <b>2018</b> , 267, 170-180	6.7	103
249	Polarized emission from CsPbX <sub>3</sub> perovskite quantum dots. <i>Nanoscale</i> , <b>2016</b> , 8, 11565-70	7.7	98
248	Precise optical modeling of blue light-emitting diodes by Monte Carlo ray-tracing. <i>Optics Express</i> , <b>2010</b> , 18, 9398-412	3.3	93
247	Design method of high-efficient LED headlamp lens. <i>Optics Express</i> , <b>2010</b> , 18, 20926-38	3.3	91
246	Ultrasensitive solution-processed broad-band photodetectors using CH <sub>3NH<sub>3</sub>PbI<sub>3</sub></sub> /perovskite hybrids and PbS quantum dots as light harvesters. <i>Nanoscale</i> , <b>2015</b> , 7, 16460-9	7.7	90

245	Ultrasensitive solution-processed perovskite hybrid photodetectors. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 6600-6606	7.1	88
244	Thin film perovskite light-emitting diode based on CsPbBr <sub>3</sub> powders and interfacial engineering. <i>Nano Energy</i> , <b>2017</b> , 37, 40-45	17.1	86
243	PbS quantum dots-induced trap-assisted charge injection in perovskite photodetectors. <i>Nano Energy</i> , <b>2016</b> , 30, 27-35	17.1	79
242	Plasmonic Perovskite Light-Emitting Diodes Based on the Ag-CsPbBr System. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 4926-4931	9.5	75
241	Status and prospects for phosphor-based white LED packaging. <i>Frontiers of Optoelectronics in China</i> , <b>2009</b> , 2, 119-140		75
240	High-Performance Blue Perovskite Light-Emitting Diodes Enabled by Efficient Energy Transfer between Coupled Quasi-2D Perovskite Layers. <i>Advanced Materials</i> , <b>2021</b> , 33, e2005570	24	74
239	Optically Active CdSe-Dot/CdS-Rod Nanocrystals with Induced Chirality and Circularly Polarized Luminescence. <i>ACS Nano</i> , <b>2018</b> , 12, 5341-5350	16.7	73
238	Analysis of condition for uniform lighting generated by array of light emitting diodes with large view angle. <i>Optics Express</i> , <b>2010</b> , 18, 17460-76	3.3	72
237	Targeting Cooling for Quantum Dots in White QDs-LEDs by Hexagonal Boron Nitride Platelets with Electrostatic Bonding. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1801407	15.6	68
236	Efficient light-emitting diodes based on green perovskite nanocrystals with mixed-metal cations. <i>Nano Energy</i> , <b>2016</b> , 30, 511-516	17.1	67
235	Freeform LED lens for rectangularly prescribed illumination. <i>Journal of Optics</i> , <b>2009</b> , 11, 105501		65
234	New reversing design method for LED uniform illumination. <i>Optics Express</i> , <b>2011</b> , 19 Suppl 4, A830-40	3.3	64
233	Angular color uniformity enhancement of white light-emitting diodes integrated with freeform lenses. <i>Optics Letters</i> , <b>2010</b> , 35, 1860-2	3	64
232	Development of InP Quantum Dot-Based Light-Emitting Diodes. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 1095-1106	20.1	60
231	Employing Polar Solvent Controlled Ionization in Precursors for Synthesis of High-Quality Inorganic Perovskite Nanocrystals at Room Temperature. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706000	15.6	59
230	Studies on Optical Consistency of White LEDs Affected by Phosphor Thickness and Concentration Using Optical Simulation. <i>IEEE Transactions on Components and Packaging Technologies</i> , <b>2010</b> , 33, 680-687		58
229	Free-form lenses for high illumination quality light-emitting diode MR16 lamps. <i>Optical Engineering</i> , <b>2009</b> , 48, 123002	1.1	52
228	Optical Analysis of Phosphor's Location for High-Power Light-Emitting Diodes. <i>IEEE Transactions on Device and Materials Reliability</i> , <b>2009</b> , 9, 65-73	1.6	52

227	Bright and efficient light-emitting diodes based on MA/Cs double cation perovskite nanocrystals. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 6123-6128	7.1	50
226	Defects Passivation With Dithienobenzodithiophene-based E-conjugated Polymer for Enhanced Performance of Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900029	7.1	50
225	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> , <b>2019</b> , 29, 1905339	15.6	50
224	High color rendering index trichromatic white and red LEDs prepared from silane-functionalized carbon dots. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 9629-9637	7.1	49
223	Design of primary optics for LED chip array in road lighting application. <i>Optics Express</i> , <b>2011</b> , 19 Suppl 4, A716-24	3.3	49
222	Simultaneous Low-Order Phase Suppression and Defect Passivation for Efficient and Stable Blue Light-Emitting Diodes. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2569-2579	20.1	49
221	Synthesis of copper benzene-1, 3, 5-tricarboxylate metal organic frameworks with mixed phases as the electrode material for supercapacitor applications. <i>Applied Surface Science</i> , <b>2018</b> , 460, 33-39	6.7	48
220	InP/ZnS/ZnS Core/Shell Blue Quantum Dots for Efficient Light-Emitting Diodes. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2005303	15.6	47
219	Effects of Defects on the Thermal and Optical Performance of High-Brightness Light-Emitting Diodes. <i>IEEE Transactions on Electronics Packaging Manufacturing</i> , <b>2009</b> , 32, 233-240		46
218	Defect Passivation in Perovskite Solar Cells by Cyano-Based E-conjugated Molecules for Improved Performance and Stability. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002861	15.6	43
217	Monitoring of seawater immersion degradation in glass fibre reinforced polymer composites using quantum dots. <i>Composites Part B: Engineering</i> , <b>2017</b> , 112, 93-102	10	42
216	Realizing highly efficient multicolor tunable emissions from Tb 3+ and Eu 3+ co-doped CaGd <sub>2</sub> (WO <sub>4</sub> ) <sub>4</sub> phosphors via energy transfer by single ultraviolet excitation for lighting and display applications. <i>Dyes and Pigments</i> , <b>2018</b> , 151, 202-210	4.6	42
215	Highly Efficient and Stable Luminescence from Microbeans Integrated with Cd-Free Quantum Dots for White-Light-Emitting Diodes. <i>Particle and Particle Systems Characterization</i> , <b>2015</b> , 32, 922-927	3.1	42
214	Improving the modulation bandwidth of LED by CdSe/ZnS quantum dots for visible light communication. <i>Optics Express</i> , <b>2016</b> , 24, 21577-86	3.3	42
213	Structural optimization for remote white light-emitting diodes with quantum dots and phosphor: packaging sequence matters. <i>Optics Express</i> , <b>2016</b> , 24, A1560-A1570	3.3	42
212	Codoping-Induced, Rhombus-Shaped Co <sub>3</sub> O <sub>4</sub> Nanosheets as an Active Electrode Material for Oxygen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 21745-50	9.5	39
211	Green InP/ZnSeS/ZnS Core Multi-Shelled Quantum Dots Synthesized with Aminophosphine for Effective Display Applications. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2008453	15.6	39
210	Heavy Metal Free Nanocrystals with Near Infrared Emission Applying in Luminescent Solar Concentrator. <i>Solar Rrl</i> , <b>2017</b> , 1, 1700041	7.1	35

209	Advances in Quantum-Dot-Based Displays. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	35
208	Efficient defect-passivation and charge-transfer with interfacial organophosphorus ligand modification for enhanced performance of perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2020</b> , 211, 110527	6.4	34
207	Optical analysis of an 80-W light-emitting-diode street lamp. <i>Optical Engineering</i> , <b>2008</b> , 47, 013002	1.1	34
206	CHNHPb Eu I mixed halide perovskite for hybrid solar cells: the impact of divalent europium doping on efficiency and stability.. <i>RSC Advances</i> , <b>2018</b> , 8, 11095-11101	3.7	33
205	Lens design of LED searchlight of high brightness and distant spot. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2011</b> , 28, 815-20	1.8	33
204	Facet Control for Trap-State Suppression in Colloidal Quantum Dot Solids. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2000594	15.6	32
203	Lead Sulfide Quantum Dot Photodetector with Enhanced Responsivity through a Two-Step Ligand-Exchange Method. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 6135-6143	5.6	32
202	Reliability test and failure analysis of high power LED packages. <i>Journal of Semiconductors</i> , <b>2011</b> , 32, 014007	2.3	32
201	Effect of manufacturing defects on optical performance of discontinuous freeform lenses. <i>Optics Express</i> , <b>2009</b> , 17, 5457-65	3.3	32
200	All-Perovskite Photodetector with Fast Response. <i>Nanoscale Research Letters</i> , <b>2019</b> , 14, 291	5	31
199	Advanced principal component analysis method for phase reconstruction. <i>Optics Express</i> , <b>2015</b> , 23, 12223-31	3.1	30
198	Scattering enhanced quantum dots based luminescent solar concentrators by silica microparticles. <i>Solar Energy Materials and Solar Cells</i> , <b>2018</b> , 179, 380-385	6.4	30
197	High-Performance Inverted Planar Perovskite Solar Cells Enhanced by Thickness Tuning of New Dopant-Free Hole Transporting Layer. <i>Small</i> , <b>2019</b> , 15, e1904715	11	30
196	Printable CsPbBr perovskite quantum dot ink for coffee ring-free fluorescent microarrays using inkjet printing. <i>Nanoscale</i> , <b>2020</b> , 12, 2569-2577	7.7	30
195	Highly Luminescent and Stable Green Quasi-2D Perovskite-Embedded Polymer Sheets by Inkjet Printing. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910817	15.6	29
194	White Light-Emitting Diodes With Enhanced Efficiency and Thermal Stability Optimized by Quantum Dots-Silica Nanoparticles. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 65, 605-609	2.9	29
193	A Bifunctional Saddle-Shaped Small Molecule as a Dopant-Free Hole Transporting Material and Interfacial Layer for Efficient and Stable Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900011	7.1	27
192	Ultrathin PEDOT:PSS Enables Colorful and Efficient Perovskite Light-Emitting Diodes. <i>Advanced Science</i> , <b>2020</b> , 7, 2000689	13.6	27

191	High Efficiency and Color Rendering Quantum Dots White Light Emitting Diodes Optimized by Luminescent Microspheres Incorporating. <i>Nanophotonics</i> , <b>2016</b> , 5, 565-572	6.3	26
190	Branched capping ligands improve the stability of cesium lead halide (CsPbBr <sub>3</sub> ) perovskite quantum dots. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 11251-11257	7.1	25
189	Structural stability and optical properties of two-dimensional perovskite-like CsPbBr microplates in response to pressure. <i>Nanoscale</i> , <b>2019</b> , 11, 820-825	7.7	24
188	Controlled one-step synthesis of CdS@ZnS core-shell particles for efficient photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 2924-2930	6.7	24
187	Strategies Toward Efficient Blue Perovskite Light-Emitting Diodes. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2100516	15.6	24
186	Spray coating of polymer electret with polystyrene nanoparticles for electrostatic energy harvesting. <i>Micro and Nano Letters</i> , <b>2016</b> , 11, 640-644	0.9	24
185	A facile route to synthesize CdSe/ZnS thick-shell quantum dots with precisely controlled green emission properties: towards QDs based LED applications. <i>Scientific Reports</i> , <b>2019</b> , 9, 12048	4.9	23
184	Structure and Charge Carrier Dynamics in Colloidal PbS Quantum Dot Solids. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 2058-2065	6.4	23
183	Hydroxyl terminated mesoporous silica-assisted dispersion of ligand-free CsPbBr <sub>3</sub> /CsPbBr <sub>3</sub> nanocrystals in polymer for stable white LED. <i>Nanoscale</i> , <b>2019</b> , 11, 1335-1342	7.7	22
182	Improving blue quantum dot light-emitting diodes by a lithium fluoride interfacial layer. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 071101	3.4	21
181	In Situ Tuning the Reactivity of Selenium Precursor To Synthesize Wide Range Size, Ultralarge-Scale, and Ultrastable PbSe Quantum Dots. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 982-989	9.6	21
180	Aggregation-Induced Emission Luminogens as Color Converters for Visible-Light Communication. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 34418-34426	9.5	21
179	Facile In Situ Fabrication of Cs <sub>4</sub> PbBr <sub>6</sub> /CsPbBr <sub>3</sub> Nanocomposite Containing Polymer Films for Ultrawide Color Gamut Displays. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2000232	8.1	18
178	Effective Surface Ligand-Concentration Tuning of Deep-Blue Luminescent FAPbBr Nanoplatelets with Enhanced Stability and Charge Transport. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 31863-31874	9.5	18
177	Circularly polarized luminescence from semiconductor quantum rods templated by self-assembled cellulose nanocrystals. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 1048-1053	7.1	18
176	Realization of wide circadian variability by quantum dots-luminescent mesoporous silica-based white light-emitting diodes. <i>Nanotechnology</i> , <b>2017</b> , 28, 425204	3.4	17
175	Degradation mechanisms of perovskite solar cells under vacuum and one atmosphere of nitrogen. <i>Nature Energy</i> , <b>2021</b> , 6, 977-986	62.3	17
174	High-performance and low-energy loss organic solar cells with non-fused ring acceptor by alkyl chain engineering. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 129768	14.7	17

173	Colloidal PbS quantum dot stacking kinetics during deposition via printing. <i>Nanoscale Horizons</i> , <b>2020</b> , 5, 880-885	10.8	16
172	Multiple Cations Enhanced Defect Passivation of Blue Perovskite Quantum Dots Enabling Efficient Light-Emitting Diodes. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2001494	8.1	16
171	Synergistic effects in biphasic nanostructured electrocatalyst: Crystalline core versus amorphous shell. <i>Nano Energy</i> , <b>2017</b> , 41, 788-797	17.1	15
170	4-4: Flexible Quantum Dot Color Converter Film for Micro-LED Applications. <i>Digest of Technical Papers SID International Symposium</i> , <b>2019</b> , 50, 30-33	0.5	15
169	Spectral Dynamics and Multiphoton Absorption Properties of All-Inorganic Perovskite Nanorods. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 4817-4825	6.4	15
168	Less-Lead Control toward Highly Efficient Formamidinium-Based Perovskite Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 24242-24248	9.5	15
167	Integral freeform illumination lens design of LED based pico-projector. <i>Applied Optics</i> , <b>2013</b> , 52, 2985-931.7	1.7	15
166	Suppressing Strong Exciton-Phonon Coupling in Blue Perovskite Nanoplatelet Solids by Binary Systems. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 22156-22162	16.4	15
165	Electric Bias Induced Degradation in Organic-Inorganic Hybrid Perovskite Light-Emitting Diodes. <i>Scientific Reports</i> , <b>2018</b> , 8, 15799	4.9	15
164	An Efficient and Effective Design of InP Nanowires for Maximal Solar Energy Harvesting. <i>Nanoscale Research Letters</i> , <b>2017</b> , 12, 604	5	14
163	Design of a brightness-enhancement-film-adaptive freeform lens to enhance overall performance in direct-lit light-emitting diode backlighting. <i>Applied Optics</i> , <b>2015</b> , 54, 5542-8	0.2	13
162	Interface Engineering of CsPbBr <sub>3</sub> Nanocrystal Light-Emitting Diodes via Atomic Layer Deposition. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2020</b> , 14, 2000083	2.5	13
161	. <i>IEEE Access</i> , <b>2019</b> , 7, 91093-91104	3.5	13
160	Ligand-Induced Chirality in Asymmetric CdSe/CdS Nanostructures: A Close Look at Chiral Tadpoles. <i>ACS Nano</i> , <b>2020</b> , 14, 10346-10358	16.7	13
159	Seed-mediated growth approach for rapid synthesis of high-performance red-emitting CdTe quantum dots in aqueous phase and their application in detection of highly reactive oxygen species. <i>Chemical Engineering Journal</i> , <b>2016</b> , 299, 201-208	14.7	13
158	High Quantum Yield Colloidal Semiconducting Nanoplatelets and High Color Purity Nanoplatelet QLED. <i>IEEE Nanotechnology Magazine</i> , <b>2019</b> , 18, 220-225	2.6	13
157	Novel Eu-activated BaYBO red-emitting phosphors for white LEDs: high color purity, high quantum efficiency and excellent thermal stability.. <i>RSC Advances</i> , <b>2018</b> , 8, 23323-23331	3.7	13
156	Efficient CsPbBr <sub>3</sub> Nanoplatelet-Based Blue Light-Emitting Diodes Enabled by Engineered Surface Ligands. <i>ACS Energy Letters</i> , <b>2022</b> , 7, 1137-1145	20.1	13



155	Study on the Reliability of Application-Specific LED Package by Thermal Shock Testing, Failure Analysis, and FluidSolid Coupling Thermo-Mechanical Simulation. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2012</b> , 2, 1135-1142	1.7	12
154	Analysis of light emitting diode array lighting system based on human vision: normal and abnormal uniformity condition. <i>Optics Express</i> , <b>2012</b> , 20, 23927-43	3.3	12
153	Spray-deposited PbS colloidal quantum dot solid for near-infrared photodetectors. <i>Nano Energy</i> , <b>2020</b> , 78, 105254	17.1	12
152	Atomic Layer Deposition Assisted Encapsulation of Quantum Dot Luminescent Microspheres toward Display Applications. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 1902118	8.1	12
151	Double-Shelled InP/ZnMnS/ZnS Quantum Dots for Light-Emitting Devices. <i>ACS Omega</i> , <b>2019</b> , 4, 18961-18968	3.9	11
150	Research on lumen depreciation related to LED packages by in-situ measurement method. <i>Microelectronics Reliability</i> , <b>2015</b> , 55, 2269-2275	1.2	11
149	Synthesis of high-quality and efficient quantum dots with inorganic surface passivation in a modified phosphine-free method. <i>Materials Letters</i> , <b>2015</b> , 139, 98-100	3.3	11
148	Light Conversion Efficiency Enhancement of Modified Quantum Dot Films Integrated With Micro SiO <sub>2</sub> Particles. <i>Journal of Display Technology</i> , <b>2016</b> , 12, 1152-1156		11
147	Precise optical modeling of quantum dots for white light-emitting diodes. <i>Scientific Reports</i> , <b>2017</b> , 7, 16663	4.9	11
146	Enhancement of light extraction efficiency of multi-chips light-emitting diode array packaging with various microstructure arrays <b>2011</b> ,		11
145	Design of a compact modified total internal reflection lens for high angular color uniformity. <i>Applied Optics</i> , <b>2012</b> , 51, 8557-62	1.7	11
144	Ultrapure Green Light-Emitting Diodes Based on CdSe/CdS Core/Crown Nanoplatelets. <i>IEEE Journal of Quantum Electronics</i> , <b>2020</b> , 56, 1-6	2	11
143	Enhanced hole injection assisted by electric dipoles for efficient perovskite light-emitting diodes. <i>Communications Materials</i> , <b>2020</b> , 1,	6	11
142	Electron-deficient diketone unit engineering for non-fused ring acceptors enabling over 13% efficiency in organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 14948-14957	13	11
141	An Analytic Approach for Optimal Geometrical Design of GaAs Nanowires for Maximal Light Harvesting in Photovoltaic Cells. <i>Scientific Reports</i> , <b>2017</b> , 7, 46504	4.9	10
140	Prepare core-multishell CdSe/ZnS nanocrystals with pure color and controlled emission by tri-n-octylphosphine-assisted method. <i>Applied Surface Science</i> , <b>2015</b> , 353, 480-488	6.7	10
139	Surface plasmon resonance amplified efficient polarization-selective volatile organic compounds CdSe-CdS/Ag/PMMA sensing material. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 309, 127760	8.5	10
138	In Situ Growth of All-Inorganic Perovskite Single Crystal Arrays on Electron Transport Layer. <i>Advanced Science</i> , <b>2020</b> , 7, 1902767	13.6	10



137	Water-soluble chiral CdSe/CdS dot/rod nanocrystals for two-photon fluorescence lifetime imaging and photodynamic therapy. <i>Nanoscale</i> , <b>2019</b> , 11, 15245-15252	7.7	10
136	Fluid-Solid coupling thermo-mechanical analysis of high power LED package during thermal shock testing. <i>Microelectronics Reliability</i> , <b>2012</b> , 52, 1726-1734	1.2	10
135	Low reabsorption and stability enhanced luminescent solar concentrators based on silica encapsulated quantum rods. <i>Solar Energy Materials and Solar Cells</i> , <b>2020</b> , 206, 110321	6.4	10
134	Surface modification of all-inorganic halide perovskite nanorods by a microscale hydrophobic zeolite for stable and sensitive laser humidity sensing. <i>Nanoscale</i> , <b>2020</b> , 12, 13360-13367	7.7	9
133	Optical haze of randomly arranged silver nanowire transparent conductive films with wide range of nanowire diameters. <i>AIP Advances</i> , <b>2018</b> , 8, 035201	1.5	9
132	Efficiently Passivated PbSe Quantum Dot Solids for Infrared Photovoltaics. <i>ACS Nano</i> , <b>2021</b> , 15, 3376-3386	7.7	9
131	Effects of Injection Current on the Modulation Bandwidths of Quantum-Dot Light-Emitting Diodes. <i>IEEE Transactions on Electron Devices</i> , <b>2019</b> , 66, 4805-4810	2.9	8
130	Cost-Efficient Printing of Graphene Nanostructures on Smart Contact Lenses. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 10820-10828	9.5	8
129	Effective coupled optoelectrical design method for fully infiltrated semiconductor nanowires based hybrid solar cells. <i>Optics Express</i> , <b>2016</b> , 24, A1336-A1348	3.3	8
128	Matrix Manipulation of Directly-Synthesized PbS Quantum Dot Inks Enabled by Coordination Engineering. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2104457	15.6	8
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124	Near-infrared lead chalcogenide quantum dots: Synthesis and applications in light emitting diodes. <i>Chinese Physics B</i> , <b>2019</b> , 28, 128504	1.2	7
123	New freeform lenses for white LEDs with high color spatial uniformity. <i>Optics Express</i> , <b>2012</b> , 20, 24418-24433	3.3	7
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121	High-Performance Blue Quasi-2D Perovskite Light-Emitting Diodes via Balanced Carrier Confinement and Transfer.. <i>Nano-Micro Letters</i> , <b>2022</b> , 14, 66	19.5	7
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115	High Luminance and Stability of Perovskite Quantum Dot Light-Emitting Diodes via ZnBr <sub>2</sub> Passivation and an Ultrathin Al <sub>2</sub> O <sub>3</sub> Barrier with Improved Carrier Balance and Ion Diffusive Inhibition. <i>ACS Applied Electronic Materials</i> , <b>2021</b> , 3, 2362-2371	4	6
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113	High-performance all-solution-processed quantum dot near-infrared-to-visible upconversion devices for harvesting photogenerated electrons. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 221103	3.4	6
112	Efficient Infrared Solar Cells Employing Quantum Dot Solids with Strong Inter-Dot Coupling and Efficient Passivation. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2006864	15.6	6
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52	Effects of phosphor location on LED packaging performance <b>2008</b> ,		2
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37	Application specific LED packaging for automotive forward-lighting application and design of whole lamp module <b>2012</b> ,		1
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33	Novel Application-Specific LED Packages Integrated With Compact Freeform Lens <b>2009</b> ,		1
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13	Freeform Optics for LED Automotive Headlamps <b>2017</b> , 231-267		
12	Freeform Optics for Emerging LED Applications <b>2017</b> , 269-306		

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6	P-93: Compact Stable Quantum Dots via Amide-Mediated Synthesis of PMO-Based Multifunctional Ligand. <i>Digest of Technical Papers SID International Symposium</i> , <b>2020</b> , 51, 1719-1722	0.5
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3	P-4.6: Ultra-high-resolution Quantum Dots Color Converter with Notable Uniformity. <i>Digest of Technical Papers SID International Symposium</i> , <b>2021</b> , 52, 765-767	0.5
2	Screen printing strategy for fabricating flexible crystallized perovskite nanocomposite patterns with high photoluminescence. <i>Flexible and Printed Electronics</i> , <b>2022</b> , 7, 015010	3.1
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