

# Kai Wang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

262  
papers

6,674  
citations

44  
h-index

74  
g-index

304  
ext. papers

8,405  
ext. citations

6.8  
avg, IF

6.23  
L-index

#	Paper	IF	Citations
262	Realization of inversely designed metagrating for highly efficient large angle beam deflection.. <i>Optics Express</i> , <b>2022</b> , 30, 7566-7579	3.3	1
261	Targeting cooling for quantum dots by 57.3°C with air-bubbles-assembled three-dimensional hexagonal boron nitride heat dissipation networks. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 130958	14.7	4
260	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
259	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
258	Light extraction employing optical tunneling in blue InP quantum dot light-emitting diodes. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 091101	3.4	3
257	In Situ Growth Mechanism for High-Quality Hybrid Perovskite Single-Crystal Thin Films with High Area to Thickness Ratio: Looking for the Sweet Spot.. <i>Advanced Science</i> , <b>2022</b> , e2104788	13.6	2
256	Organic-Phase Synthesis of Blue Emission Copper Nanoparticles for Light-Emitting Diodes. <i>ACS Applied Nano Materials</i> , <b>2022</b> , 5, 3967-3972	5.6	0
255	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	
254	Full-Color Quantum Dot Light-Emitting Diodes Based on Microcavities. <i>IEEE Photonics Journal</i> , <b>2022</b> , 14, 1-9	1.8	
253	Enhancing hole injection by electric dipoles for efficient blue InP QLEDs. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 221105	3.4	3
252	Analyzing and modulating energy transfer in ternary-emissive system of quantum dot light-emitting diodes towards efficient emission. <i>Optics Express</i> , <b>2021</b> , 29, 36964-36976	3.3	2
251	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
250	Color revolution: toward ultra-wide color gamut displays. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 213002	3	2
249	Colloidal PbS Quantum Dots for Visible-to-Near-Infrared Optical Internet of Things. <i>IEEE Photonics Journal</i> , <b>2021</b> , 13, 1-11	1.8	2
248	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
247	Strategies Toward Efficient Blue Perovskite Light-Emitting Diodes. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2100516	15.6	24
246	Improved Ink-Jet-Printed CdSe Quantum Dot Light-Emitting Diodes with Minimized Hole Transport Layer Erosion. <i>ACS Applied Electronic Materials</i> , <b>2021</b> , 3, 3005-3014	4	2

245	Alloyed Green-Emitting CdZnSeS/ZnS Quantum Dots with Dense Protective Layers for Stable Lighting and Display Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 32217-32225	9.5	3
244	Identifying the Surface Charges and their Impact on Carrier Dynamics in Quantum-Dot Light-Emitting Diodes by Impedance Spectroscopy. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2100389	8.1	4
243	Efficient transparent quantum-dot light-emitting diodes with an inverted architecture. <i>Optical Materials Express</i> , <b>2021</b> , 11, 2145	2.6	1
242	Universal Strategy for Improving Perovskite Photodiode Performance: Interfacial Built-In Electric Field Manipulated by Unintentional Doping. <i>Advanced Science</i> , <b>2021</b> , 8, e2101729	13.6	6
241	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
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	High-performance perovskite light-emitting diodes based on double hole transport layers. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 2115-2122	7.1	5
238	Efficient all-inorganic perovskite light-emitting diodes enabled by manipulating the crystal orientation. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 11064-11072	13	5
237	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
236	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
235	P-14.3: Inkjet Printed QLED with Enhanced Efficiency and Stability Based on Optimized Hole Transport Layer with Less Side Emission. <i>Digest of Technical Papers SID International Symposium</i> , <b>2021</b> , 52, 1056-1056	0.5	
234	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	
233	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
232	Enhancing Heat Dissipation of Quantum Dots in High-Power White LEDs by Thermally Conductive Composites Annular Fins. <i>IEEE Electron Device Letters</i> , <b>2021</b> , 42, 1204-1207	4.4	0
231	Hole Scavenging and Electron-Hole Pair Photoproduction Rate: Two Mandatory Key Factors to Control Single-Tip Au-CdSe/CdS Nanoheterodimers. <i>ACS Nano</i> , <b>2021</b> , 15, 15328-15341	16.7	3
230	Highly efficient transparent quantum-dot light-emitting diodes based on inorganic double electron-transport layers. <i>Photonics Research</i> , <b>2021</b> , 9, 1979	6	1
229	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
228	High-Performance Ultrapure Green CdSe/CdS Core/Crown Nanoplatelet Light-Emitting Diodes by Suppressing Nonradiative Energy Transfer. <i>Advanced Electronic Materials</i> , <b>2021</b> , 7, 2000965	6.4	8

227	Operando structure degradation study of PbS quantum dot solar cells. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 3420-3429	35.4	3
226	Efficiently Passivated PbSe Quantum Dot Solids for Infrared Photovoltaics. <i>ACS Nano</i> , <b>2021</b> , 15, 3376-3386.7		9
225	Spectral and Nonlinear Optical Properties of Quasi-Type II CdSe/CdS Nanotadpoles. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 27840-27847	3.8	3
224	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
223	Bright infra-red quantum dot light-emitting diodes through efficient suppressing of electrons. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 191103	3.4	4
222	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
221	Metal-to-Ligand Charge Transfer Chirality Sensing of d-Glucose Assisted with GOX-Based Enzymatic Reaction. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 2000138	6.8	2
220	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
219	High performance top-emitting quantum dot light-emitting diodes with interfacial modification. <i>AIP Advances</i> , <b>2020</b> , 10, 065308	1.5	4
218	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
217	Analysis of Factors Affecting Optical Performance of GaN-Based Micro-LEDs with Quantum Dots Films. <i>Crystals</i> , <b>2020</b> , 10, 203	2.3	2
216	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
215	Development of InP Quantum Dot-Based Light-Emitting Diodes. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 1095-1106	20.1	60
214	Advances in Quantum-Dot-Based Displays. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	35
213	Defect Passivation in Perovskite Solar Cells by Cyano-Based $\pi$ -Conjugated Molecules for Improved Performance and Stability. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002861	15.6	43
212	Colloidal PbS quantum dot stacking kinetics during deposition via printing. <i>Nanoscale Horizons</i> , <b>2020</b> , 5, 880-885	10.8	16
211	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
210	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

209	Enhanced frequency and amplitude modulation of THz metasurfaces based on CdSe/CdS quantum rods. <i>Optics Communications</i> , <b>2020</b> , 471, 126014	2	0
208	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
207	Facet Control for Trap-State Suppression in Colloidal Quantum Dot Solids. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2000594	15.6	32
206	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
205	Up-Conversion Device Based on Quantum Dots With High-Conversion Efficiency Over 6%. <i>IEEE Access</i> , <b>2020</b> , 8, 71041-71049	3.5	3
204	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
203	Trade-Offs Between Illumination and Modulation Performances of Quantum-Dot LED. <i>IEEE Photonics Technology Letters</i> , <b>2020</b> , 32, 726-729	2.2	3
202	Factors influencing the working temperature of quantum dot light-emitting diodes. <i>Optics Express</i> , <b>2020</b> , 28, 34167-34179	3.3	5
201	4 Mb/s under a 3 m transmission distance using a quantum dot light-emitting diode and NRZ-OOK modulation. <i>Optics Letters</i> , <b>2020</b> , 45, 1297-1300	3	3
200	Polarized Emission from Perovskite Nanocrystals. <i>Springer Series in Materials Science</i> , <b>2020</b> , 139-155	0.9	
199	Quantum Dots Electrostatically Adsorbed on the Surface of SiO <sub>2</sub> Nanoparticle-Decorated Phosphor Particles for White Light-Emitting Diodes with a Stable Optical Performance. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 12394-12400	5.6	2
198	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
197	White-Light-Emitting Diodes from Directional Heat-Conducting Hexagonal Boron Nitride Quantum Dots. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 814-819	5.6	5
196	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
195	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
194	Equivalent Circuit of Quantum-Dot LED and Acquisition of Carrier Lifetime in Active Layer. <i>IEEE Electron Device Letters</i> , <b>2020</b> , 41, 87-90	4.4	3
193	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
192	Internal nanoscale architecture and charge carrier dynamics of wide bandgap non-fullerene bulk heterojunction active layers in organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 23628-23636 <sup>13</sup>		5

191	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	
190	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
189	Enhanced hole injection assisted by electric dipoles for efficient perovskite light-emitting diodes. <i>Communications Materials</i> , <b>2020</b> , 1,	6	11
188	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
187	Spray-deposited PbS colloidal quantum dot solid for near-infrared photodetectors. <i>Nano Energy</i> , <b>2020</b> , 78, 105254	17.1	12
186	Causal Inference Machine Learning Leads Original Experimental Discovery in CdSe/CdS Core/Shell Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 7232-7238	6.4	5
185	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
184	Impact of the resistive switching effects in ZnMgO electron transport layer on the aging characteristics of quantum dot light-emitting diodes. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 093501	3.4	7
183	Grazing-Incidence Small-Angle X-ray Scattering Observation of Gold Sputter Deposition on a PbS Quantum Dot Solid. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 46942-46952	9.5	5
182	Enhancing stability of CsPbBr <sub>3</sub> nanocrystals light-emitting diodes through polymethylmethacrylate physical adsorption. <i>Nano Select</i> , <b>2020</b> , 1, 372-381	3.1	4
181	Enhanced light emission of quantum dot films by scattering of poly(zinc methacrylate) coating CdZnSeS/ZnS quantum dots and high refractive index BaTiO nanoparticles.. <i>RSC Advances</i> , <b>2020</b> , 10, 31703-31710	2.7	10
180	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
179	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
178	. <i>IEEE Photonics Journal</i> , <b>2020</b> , 12, 1-14	1.8	3
177	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
176	Ultrathin PEDOT:PSS Enables Colorful and Efficient Perovskite Light-Emitting Diodes. <i>Advanced Science</i> , <b>2020</b> , 7, 2000689	13.6	27
175	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
174	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



173	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
172	Ultrasensitive Detection of Volatile Organic Compounds by a Freestanding Aligned Ag/CdSe-CdS/PMMA Texture with Double-Side UV-Ozone Treatment. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 34454-34462	9.5	4
171	Double-Shelled InP/ZnMnS/ZnS Quantum Dots for Light-Emitting Devices. <i>ACS Omega</i> , <b>2019</b> , 4, 18961-18968	9.6	11
170	Hydroxyl terminated mesoporous silica-assisted dispersion of ligand-free CsPbBr/CsPbBr nanocrystals in polymer for stable white LED. <i>Nanoscale</i> , <b>2019</b> , 11, 1335-1342	7.7	22
169	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
168	Surface modification toward luminescent and stable silica-coated quantum dots color filter. <i>Science China Materials</i> , <b>2019</b> , 62, 1463-1469	7.1	2
167	Reduced Working Temperature of Quantum Dots-Light-Emitting Diodes Optimized by Quantum Dots at Silica-on-Chip Structure. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2019</b> , 141,	2	5
166	Silica encapsulation of metal perovskite nanocrystals in a photoluminescence type display application. <i>Nanotechnology</i> , <b>2019</b> , 30, 395702	3.4	6
165	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
164	P-122: High Quantum Yield Green and Red CdSe/CdS Dot-in-Rods and Their Electroluminescent Light Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , <b>2019</b> , 50, 1705-1708	0.5	3
163	P-125: High Quantum Yield InP/ZnMnS/ZnS Quantum Dots. <i>Digest of Technical Papers SID International Symposium</i> , <b>2019</b> , 50, 1716-1719	0.5	2
162	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
161	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
160	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
159	Highly Polarized Fluorescent Film Based on Aligned Quantum Rods by Contact Ink-Jet Printing Method. <i>IEEE Photonics Journal</i> , <b>2019</b> , 11, 1-11	1.8	4
158	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
157	Ultrawide color gamut LCD display with CdSe/CdS nanoplatelets. <i>Journal of the Society for Information Display</i> , <b>2019</b> , 27, 587-596	2.1	5
156	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

155	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
154	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
153	Modeling and Analysis for Modulation of Light-Conversion Materials in Visible Light Communication. <i>IEEE Photonics Journal</i> , <b>2019</b> , 11, 1-13	1.8	4
152	. <i>IEEE Access</i> , <b>2019</b> , 7, 91093-91104	3.5	13
151	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
150	Optoelectronic performance of AgNW transparent conductive films with different width-to-height ratios and a figure of merit embodying an optical haze. <i>AIP Advances</i> , <b>2019</b> , 9, 045226	1.5	3
149	Perovskite Light-Emitting Diodes Based on FAPb <sub>1-x</sub> SnxBr <sub>3</sub> Nanocrystals Synthesized at Room Temperature. <i>IEEE Nanotechnology Magazine</i> , <b>2019</b> , 18, 1050-1056	2.6	6
148	. <i>IEEE Journal of Quantum Electronics</i> , <b>2019</b> , 55, 1-6	2	1
147	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
146	The scaling of the ligand concentration and Soret effect induced phase transition in CsPbBr <sub>3</sub> perovskite quantum dots. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 27241-27246	13	5
145	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
144	All-Perovskite Photodetector with Fast Response. <i>Nanoscale Research Letters</i> , <b>2019</b> , 14, 291	5	31
143	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
142	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
141	Quasi-Two-Dimensional Halide Perovskite Single Crystal Photodetector. <i>ACS Nano</i> , <b>2018</b> , 12, 4919-4929	16.7	178
140	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
139	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
138	Synthesis of highly efficient and stable CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> perovskite nanocrystals within mesoporous silica through excess CH <sub>3</sub> NH <sub>3</sub> Br method. <i>Dyes and Pigments</i> , <b>2018</b> , 155, 23-29	4.6	5



137	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
136	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
135	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
134	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
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	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
131	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
130	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
129	11-2: Methylammonium Iodide (MAI) Enhanced, Solution Processed High-Performance Photodetector Based on Lead Sulfide Quantum Dots. <i>Digest of Technical Papers SID International Symposium</i> , <b>2018</b> , 49, 108-111	0.5	3
128	Large-scale active luminance film with enhanced polarization made of aligned quantum-rod-containing polymeric nanofibers for highly efficient and wide color gamut LCD displays. <i>Chinese Journal of Liquid Crystals and Displays</i> , <b>2018</b> , 33, 261-270	1.3	2
127	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
126	Formamidinium-Based Quasi-2D Perovskite Nanoplates With Dimensionally Tuned Optical Properties. <i>IEEE Nanotechnology Magazine</i> , <b>2018</b> , 17, 1165-1170	2.6	4
125	Electric Bias Induced Degradation in Organic-Inorganic Hybrid Perovskite Light-Emitting Diodes. <i>Scientific Reports</i> , <b>2018</b> , 8, 15799	4.9	15
124	Optimization of Illumination Performance of Trichromatic White Light-Emitting Diode and Characterization of Its Modulation Bandwidth for Communication Applications. <i>IEEE Photonics Journal</i> , <b>2018</b> , 10, 1-11	1.8	2
123	Bright and efficient light-emitting diodes based on perovskite quantum dots with formamidinium-methylamine hybrid cations. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 454003	3	3
122	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
121	Alloyed multi-shell quantum dots with tunable dual emission. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 11280-11286	7.1	6
120	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

119	4-4: High Stability Green Luminescent Microspheres based on Quantum Dot. <i>Digest of Technical Papers SID International Symposium</i> , <b>2018</b> , 49, 32-35	0.5	3
118	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
117	Synergistic effects in biphasic nanostructured electrocatalyst: Crystalline core versus amorphous shell. <i>Nano Energy</i> , <b>2017</b> , 41, 788-797	17.1	15
116	Enhanced conductivity of transparent and flexible silver nanowire electrodes fabricated by a solution-processed method at room temperature. <i>Thin Solid Films</i> , <b>2017</b> , 624, 54-60	2.2	7
115	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
114	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
113	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
112	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
111	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
110	20-2: Mixed-Cation Perovskite Light-Emitting Diodes with High Brightness and High Current Efficiency. <i>Digest of Technical Papers SID International Symposium</i> , <b>2017</b> , 48, 276-279	0.5	
109	20-3: A Greener Method to Synthesize Br-rich Inorganic Cesium Lead Bromine Perovskite Nanocrystals for High Brightness Light-Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , <b>2017</b> , 48, 280-283	0.5	1
108	32-3: Stability Enhancement of Light Emitting Diode Based on Quantum Dots through Atomic Layer Deposition. <i>Digest of Technical Papers SID International Symposium</i> , <b>2017</b> , 48, 455-458	0.5	2
107	32-4: In-situ Polymerization of Polystyrene for Synthesis of Quantum Dots Composite Particle for Wide Color Gamut Display. <i>Digest of Technical Papers SID International Symposium</i> , <b>2017</b> , 48, 459-462	0.5	3
106	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
105	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
104	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
103	Basic Algorithms of Freeform Optics for LED Lighting <b>2017</b> , 25-69		
102	Application-Specific LED Package Integrated with a Freeform Lens <b>2017</b> , 71-97		

101 Freeform Optics for LED Road Lighting **2017**, 125-179

100 An Efficient and Effective Design of InP Nanowires for Maximal Solar Energy Harvesting. *Nanoscale Research Letters*, **2017**, 12, 604 5 14

99 High color rendering index trichromatic white and red LEDs prepared from silane-functionalized carbon dots. *Journal of Materials Chemistry C*, **2017**, 5, 9629-9637 7.1 49

98 Freeform Optics for LED Lighting with High Spatial Color Uniformity **2017**, 307-333

97 Freeform Optics for LED Automotive Headlamps **2017**, 231-267

96 Freeform Optics for Emerging LED Applications **2017**, 269-306

95 Review of Main Algorithms of Freeform Optics for LED Lighting **2017**, 15-23

94 Freeform Optics for a Direct-Lit LED Backlighting Unit **2017**, 181-229

93 Realization of wide circadian variability by quantum dots-luminescent mesoporous silica-based white light-emitting diodes. *Nanotechnology*, **2017**, 28, 425204 3.4 17

92 Highly Efficient Chip-Scale Package LED Based on Surface Patterning. *IEEE Photonics Technology Letters*, **2017**, 29, 1703-1706 2.2 6

91 Precise optical modeling of quantum dots for white light-emitting diodes. *Scientific Reports*, **2017**, 7, 16663 4.9 11

90 Controlled one-step synthesis of CdS@ZnS core-shell particles for efficient photocatalytic hydrogen evolution. *International Journal of Hydrogen Energy*, **2017**, 42, 2924-2930 6.7 24

89 **2017**, 5

88 Optical modeling based on mean free path calculations for quantum dot phosphors applied to optoelectronic devices: comment. *Optics Express*, **2017**, 25, 25098-25101 3.3

87 Utilizing CdSe/ZnS core/shell QDs to improve the modulation bandwidth of WLED for visible light communication **2016**, 1

86 Efficient light-emitting diodes based on green perovskite nanocrystals with mixed-metal cations. *Nano Energy*, **2016**, 30, 511-516 17.1 67

85 Precise phase retrieval under harsh conditions by constructing new connected interferograms. *Scientific Reports*, **2016**, 6, 24416 4.9 7

84 General condition for ladder network prototype with equal terminations. *Microwave and Optical Technology Letters*, **2016**, 58, 2833-2836 1.2

83	63-2: Distinguished Paper: Large-scale Luminance Enhancement Film with Quantum Rods Aligned in Polymeric Nanofibers for High Efficiency Wide Color Gamut LED Display. <i>Digest of Technical Papers SID International Symposium</i> , <b>2016</b> , 47, 854-857	0.5	6
82	P-89: Polarization Fluorescence Property Observed in the CsPbX <sub>3</sub> Perovskites Quantum Dots. <i>Digest of Technical Papers SID International Symposium</i> , <b>2016</b> , 47, 1458-1461	0.5	1
81	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
80	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
79	Quantum-Dot and Quantum-Rod Displays [The Next Big Wave. <i>Information Display</i> , <b>2016</b> , 32, 6-14	0.8	4
78	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
77	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
76	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
75	P-93: High Performance of Quantum Dot Based Light Emitting Diodes Optimized by Graphene Sheets. <i>Digest of Technical Papers SID International Symposium</i> , <b>2016</b> , 47, 1472-1475	0.5	1
74	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
73	34-2: A Rapid, Highly Emissive Procedure Synthesize of Giant Pure Red Coreshell Quantum Rods by Using Modified Tributylphosphine-assisted Method. <i>Digest of Technical Papers SID International Symposium</i> , <b>2016</b> , 47, 428-431	0.5	1
72	34-3: A Low-cost, Two-step Nucleation and Growth of CdTe Quantum Dots via Magic-sized Cluster Intermediates in Aqueous Phase. <i>Digest of Technical Papers SID International Symposium</i> , <b>2016</b> , 47, 432-435	0.5	1
71	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
70	Spray coating of polymer electret with nano particles for stable surface charge <b>2016</b> ,		1
69	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
68	Parameters study on the growth of GaAs nanowires on indium tin oxide by metal-organic chemical vapor deposition. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 094305	2.5	1
67	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
66	Polarized emission from CsPbX <sub>3</sub> perovskite quantum dots. <i>Nanoscale</i> , <b>2016</b> , 8, 11565-70	7.7	98

65	PbS quantum dots-induced trap-assisted charge injection in perovskite photodetectors. <i>Nano Energy</i> , <b>2016</b> , 30, 27-35	17.1	79
64	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
63	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
62	Ultrasensitive solution-processed perovskite hybrid photodetectors. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 6600-6606	7.1	88
61	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
60	Advanced principal component analysis method for phase reconstruction. <i>Optics Express</i> , <b>2015</b> , 23, 12223-31	3.1	30
59	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
58	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
57	Ultrasensitive solution-processed broad-band photodetectors using CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> /perovskite hybrids and PbS quantum dots as light harvesters. <i>Nanoscale</i> , <b>2015</b> , 7, 16460-9	7.7	90
56	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
55	MOCVD Growth of High-Quality and Density-Tunable GaAs Nanowires on ITO Catalyzed by Au Nanoparticles Deposited by Centrifugation. <i>Nanoscale Research Letters</i> , <b>2015</b> , 10, 410	5	4
54	P-84: A Low-Cost, High-Throughput Procedure Synthesize of Pure-Green Core-Multishell Quantum Dots by using Modified Tri-n-Octylphosphine-Assisted SILAR Method. <i>Digest of Technical Papers SID International Symposium</i> , <b>2015</b> , 46, 1465-1468	0.5	4
53	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
52	P-89: Effects of Nano-TiO <sub>2</sub> Particles on Conversion Efficiency of Quantum Dots Light Converting Nanocomposites. <i>Digest of Technical Papers SID International Symposium</i> , <b>2015</b> , 46, 1491-1494	0.5	5
51	Large-scale brightness enhancement film with quantum rods aligned in polymeric nanofibers for high efficiency wide color gamut LED display <b>2015</b> ,		1
50	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
49	Feedback Reversing Design Method for Uniform Illumination in LED Backlighting With Extended Source. <i>Journal of Display Technology</i> , <b>2014</b> , 10, 43-48		5
48	12.3: Core-Shell Quantum Dots Synthesized by Using Tri-n-Octylphosphine-Assisted Method for High-Color-Saturation Displays. <i>Digest of Technical Papers SID International Symposium</i> , <b>2014</b> , 45, 138-141	0.5	6

47	Integral freeform illumination lens design of LED based pico-projector. <i>Applied Optics</i> , <b>2013</b> , 52, 2985-931.7	1.7	15
46	Study on the Reliability of Application-Specific LED Package by Thermal Shock Testing, Failure Analysis, and Fluid-Solid Coupling Thermo-Mechanical Simulation. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2012</b> , 2, 1135-1142	1.7	12
45	Application specific LED packaging for automotive forward-lighting application and design of whole lamp module <b>2012</b> ,		1
44	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
43	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
42	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
41	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
40	New freeform lenses for white LEDs with high color spatial uniformity. <i>Optics Express</i> , <b>2012</b> , 20, 24418-28.3	3.3	7
39	Angular color uniformity enhancement of phosphor converted white LEDs integrated with compact modified freeform TIR components <b>2012</b> ,		2
38	A novel LED un-symmetrical lens for road lighting with super energy saving <b>2012</b> ,		2
37	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
36	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
35	New reversing design method for LED uniform illumination. <i>Optics Express</i> , <b>2011</b> , 19 Suppl 4, A830-40	3.3	64
34	Enhancement of light extraction efficiency of multi-chips light-emitting diode array packaging with various microstructure arrays <b>2011</b> ,		11
33	Freeform lens design for uniform illumination with extended source <b>2011</b> ,		1
32	Reliability test and failure analysis of high power LED packages. <i>Journal of Semiconductors</i> , <b>2011</b> , 32, 014007	2.3	32
31	Energy-saving bottom-lit LED backlight with angle-control freeform lens <b>2011</b> ,		3
30	Freeform lens for white LEDs with high angular color uniformity <b>2010</b> ,		1



29	Realization of high spatial color uniformity for white light-emitting diodes by remote hemispherical YAG: Ce phosphor film <b>2010</b> ,		3
28	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
27	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
26	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
25	Design method of high-efficient ?LED headlamp lens. <i>Optics Express</i> , <b>2010</b> , 18, 20926-38	3.3	91
24	Comment on "Enhancement of flip-chip white light-emitting diodes with a one-dimensional photonic crystal". <i>Optics Letters</i> , <b>2010</b> , 35, 1758	3	
23	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
22	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
21	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
20	<b>2010</b> ,		1
19	Novel Application-Specific LED Packages Integrated With Compact Freeform Lens <b>2009</b> ,		1
18	Free-form lenses for high illumination quality light-emitting diode MR16 lamps. <i>Optical Engineering</i> , <b>2009</b> , 48, 123002	1.1	52
17	Status and prospects for phosphor-based white LED packaging. <i>Frontiers of Optoelectronics in China</i> , <b>2009</b> , 2, 119-140		75
16	Effect of manufacturing defects on optical performance of discontinuous freeform lenses. <i>Optics Express</i> , <b>2009</b> , 17, 5457-65	3.3	32
15	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
14	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
13	Freeform LED lens for rectangularly prescribed illumination. <i>Journal of Optics</i> , <b>2009</b> , 11, 105501		65
12	Freeform lens for application-specific LED packaging <b>2009</b> ,		3

11	Novel application-specific LED packaging with compact freeform lens <b>2009</b> ,			5
10	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
9	Optical analysis of an 80-W light-emitting-diode street lamp. <i>Optical Engineering</i> , <b>2008</b> , 47, 013002	1.1		34
8	Analysis of factors affecting color distribution of white LEDs <b>2008</b> ,			4
7	Optical analysis of a 3W light-emitting diode (LED) MR16 lamp <b>2008</b> ,			1
6	Effects of phosphor location on LED packaging performance <b>2008</b> ,			2
5	Dynamic mechanical properties of the transparent silicone resin for high power LED packaging <b>2008</b> ,			3
4	High Performance Inkjet-Printed Quantum-Dot Light-Emitting Diodes with High Operational Stability. <i>Advanced Optical Materials</i> ,2101069	8.1		2
3	Luminescent perovskite nanocrystal composites via in situ ligand polymerization towards display applications. <i>Journal of Materials Chemistry C</i> ,	7.1		1
2	Perovskite bridging PbS quantum dot/polymer interface enables efficient solar cells. <i>Nano Research</i> ,1	10		0
1	High Quantum Yield Blue InP/ZnS/ZnS Quantum Dots Based on Bromine Passivation for Efficient Blue Light-Emitting Diodes. <i>Advanced Optical Materials</i> ,2200685	8.1		6