

# Wallace C H Choy

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/6957890/wallace-c-h-choy-publications-by-year.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

272  
papers

13,054  
citations

58  
h-index

105  
g-index

300  
ext. papers

14,709  
ext. citations

9  
avg, IF

6.84  
L-index

#	Paper	IF	Citations
272	1-Chloronaphthalene-Induced Donor/Acceptor Vertical Distribution and Carrier Dynamics Changes in Nonfullerene Organic Solar Cells and the Governed Mechanism.. <i>Small Methods</i> , <b>2022</b> , e2101475	12.8	8
271	Near-infrared non-fused ring acceptors with light absorption up to 1000nm for efficient and low-energy loss organic solar cells. <i>Materials Today Energy</i> , <b>2022</b> , 24, 100938	7	6
270	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
269	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
268	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
267	Full-Color Quantum Dot Light-Emitting Diodes Based on Microcavities. <i>IEEE Photonics Journal</i> , <b>2022</b> , 14, 1-9	1.8	
266	Enhancing hole injection by electric dipoles for efficient blue InP QLEDs. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 221105	3.4	3
265	Low-Bandgap Organic Bulk-Heterojunction Enabled Efficient and Flexible Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2021</b> , 33, e2105539	24	27
264	Efficient and Stable Red Perovskite Light-Emitting Diodes with Operational Stability >300 h. <i>Advanced Materials</i> , <b>2021</b> , 33, e2008820	24	38
263	Recent Developments in Organic Tandem Solar Cells toward High Efficiency. <i>Advanced Energy and Sustainability Research</i> , <b>2021</b> , 2, 2000050	1.6	4
262	Hybrid 3D Nanostructure-Based Hole Transport Layer for Highly Efficient Inverted Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 16611-16619	9.5	2
261	Double-Side Crystallization Tuning to Achieve over 1µm Thick and Well-Aligned Block-Like Narrow-Bandgap Perovskites for High-Efficiency Near-Infrared Photodetectors. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010532	15.6	6
260	Tailoring the Interface in FAPbI <sub>3</sub> Planar Perovskite Solar Cells by Imidazole-Graphene-Quantum-Dots. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101438	15.6	20
259	Strategies Toward Efficient Blue Perovskite Light-Emitting Diodes. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2100516	15.6	24
258	Upside-Down Molding Approach for Geometrical Parameter-Tunable Photonic Perovskite Nanostructures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 27313-27322	9.5	
257	Efficient Gradient Potential Top Electron Transport Structures Achieved by Combining an Oxide Family for Inverted Perovskite Solar Cells with High Efficiency and Stability. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 27179-27187	9.5	4
256	Inorganic top electron transport layer for high performance inverted perovskite solar cells. <i>EcoMat</i> , <b>2021</b> , 3, e12127	9.4	6

255	An efficacious multifunction codoping strategy on a room-temperature solution-processed hole transport layer for realizing high-performance perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 371-379	13	12
254	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
253	Observing and Understanding the Corrosion of Silver Nanowire Electrode by Precursor Reagents and MAPbI <sub>3</sub> Film in Different Environmental Conditions. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2001669	4.6	2
252	Evaporation-Free Organic Solar Cells with High Efficiency Enabled by Dry and Nonimmersive Sintering Strategy. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010764	15.6	3
251	Efficient Semi-Transparent Organic Solar Cells with High Color Rendering Index Enabled by Self-Assembled and Knitted AgNPs/MWCNTs Transparent Top Electrode via Solution Process. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2002108	8.1	10
250	Operational and Spectral Stability of Perovskite Light-Emitting Diodes. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 3114231	13	11
249	Antioxidation and Energy-Level Alignment for Improving Efficiency and Stability of Hole Transport Layer-Free and Methylammonium-Free Tin-Lead Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 45059-45067	9.5	5
248	Critical Role of Functional Groups in Defect Passivation and Energy Band Modulation in Efficient and Stable Inverted Perovskite Solar Cells Exceeding 21% Efficiency. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 57165-57173	9.5	11
247	High Phase Stability in CsPbI <sub>3</sub> Enabled by Pb-I Octahedra Anchors for Efficient Inorganic Perovskite Photovoltaics. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000186	24	52
246	Transient Photovoltage Measurements on Perovskite Solar Cells with Varied Defect Concentrations and Inhomogeneous Recombination Rates. <i>Small Methods</i> , <b>2020</b> , 4, 2000290	12.8	13
245	High-Quality MAPbBr <sub>3</sub> Cuboid Film with Promising Optoelectronic Properties Prepared by a Hot Methylamine Precursor Approach. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 24498-24504	9.5	8
244	Realizing the ultimate goal of fully solution-processed organic solar cells: a compatible self-sintering method to achieve silver back electrode. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 6083-6091	13	6
243	High Performance Flexible Transparent Electrode via One-Step Multifunctional Treatment for Ag Nanonetwork Composites Semi-Embedded in Low-Temperature-Processed Substrate for Highly Performed Organic Photovoltaics. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903919	21.8	29
242	Biodegradable Materials and Green Processing for Green Electronics. <i>Advanced Materials</i> , <b>2020</b> , 32, e2001591	14	71
241	In Situ Tin(II) Complex Antisolvent Process Featuring Simultaneous Quasi-Core/Shell Structure and Heterojunction for Improving Efficiency and Stability of Low-Bandgap Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903013	21.8	22
240	Electron-pinned defect dipoles in (Li, Al) co-doped ZnO ceramics with colossal dielectric permittivity. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 4764-4774	13	17
239	Observing the stability evolution of EDMAxCs <sub>1-x</sub> PbI <sub>2</sub> Br through precursor incubation. <i>Organic Electronics</i> , <b>2020</b> , 84, 105800	3.5	0
238	The mechanism of universal green antisolvents for intermediate phase controlled high-efficiency formamidinium-based perovskite solar cells. <i>Materials Horizons</i> , <b>2020</b> , 7, 934-942	14.4	32

237	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
236	Enhanced hole injection assisted by electric dipoles for efficient perovskite light-emitting diodes. <i>Communications Materials</i> , <b>2020</b> , 1,	6	11
235	Establishing Multifunctional Interface Layer of Perovskite Ligand Modified Lead Sulfide Quantum Dots for Improving the Performance and Stability of Perovskite Solar Cells. <i>Small</i> , <b>2020</b> , 16, e2002628	11	13
234	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
233	Triple Interface Passivation Strategy-Enabled Efficient and Stable Inverted Perovskite Solar Cells. <i>Small Methods</i> , <b>2020</b> , 4, 2000478	12.8	25
232	Efficient and Stable All-Inorganic Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000408	7.1	18
231	. <i>IEEE Photonics Journal</i> , <b>2020</b> , 12, 1-14	1.8	3
230	Solution-Processed Ternary Oxides as Carrier Transport/Injection Layers in Optoelectronics. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1900903	21.8	25
229	Efficient Interconnection in Perovskite Tandem Solar Cells. <i>Small Methods</i> , <b>2020</b> , 4, 2000093	12.8	20
228	Achieving High-Quality Sn-Pb Perovskite Films on Complementary Metal-Oxide-Semiconductor-Compatible Metal/Silicon Substrates for Efficient Imaging Array. <i>ACS Nano</i> , <b>2019</b> , 13, 11800-11808	16.7	22
227	Multifunctional Synthesis Approach of In:CuCrO <sub>2</sub> Nanoparticles for Hole Transport Layer in High-Performance Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1902600	15.6	48
226	How far does the defect tolerance of lead-halide perovskites range? The example of Bi impurities introducing efficient recombination centers. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 23838-23853	13	38
225	Perovskite Photovoltaics: The Significant Role of Ligands in Film Formation, Passivation, and Stability. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805702	24	143
224	Enhanced Silver Nanowire Composite Window Electrode Protected by Large Size Graphene Oxide Sheets for Perovskite Solar Cells. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	17
223	Water-Soluble Triazolium Ionic-Liquid-Induced Surface Self-Assembly to Enhance the Stability and Efficiency of Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1900417	15.6	102
222	Single-phase alkylammonium cesium lead iodide quasi-2D perovskites for color-tunable and spectrum-stable red LEDs. <i>Nanoscale</i> , <b>2019</b> , 11, 16907-16918	7.7	14
221	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
220	Device Physics of the Carrier Transporting Layer in Planar Perovskite Solar Cells. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900407	8.1	24

219	A General Method: Designing a Hypocrystalline Hydroxide Intermediate to Achieve Ultrasmall and Well-Dispersed Ternary Metal Oxide for Efficient Photovoltaic Devices. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1904684	15.6	27
218	High-Quality Cuboid CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Single Crystals for High Performance X-Ray and Photon Detectors. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806984	15.6	76
217	Solution-Processed Metal Oxide Nanocrystals as Carrier Transport Layers in Organic and Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1804660	15.6	72
216	Strategic Synthesis of Ultrasmall NiCo <sub>2</sub> O <sub>4</sub> NPs as Hole Transport Layer for Highly Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702722	21.8	82
215	Sequential Processing: Spontaneous Improvements in Film Quality and Interfacial Engineering for Efficient Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2018</b> , 2, 1800027	7.1	27
214	All-room-temperature solution-processed new nanocomposites based hole transport layer from synthesis to film formation for high-performance organic solar cells towards ultimate energy-efficient fabrication. <i>Nano Energy</i> , <b>2018</b> , 47, 26-34	17.1	14
213	Low-Bandgap Methylammonium-Rubidium Cation Sn-Rich Perovskites for Efficient Ultraviolet/Visible/Near Infrared Photodetectors. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706068	15.6	55
212	Self-Assembled Quasi-3D Nanocomposite: A Novel p-Type Hole Transport Layer for High Performance Inverted Organic Solar Cells. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706403	15.6	31
211	Emerging Novel Metal Electrodes for Photovoltaic Applications. <i>Small</i> , <b>2018</b> , 14, e1703140	11	56
210	A comprehensively theoretical and experimental study of carrier generation and transport for achieving high performance ternary blend organic solar cells. <i>Nano Energy</i> , <b>2018</b> , 51, 206-215	17.1	12
209	Crystallization, Properties, and Challenges of Low-Bandgap SnPb Binary Perovskites. <i>Solar Rrl</i> , <b>2018</b> , 2, 1800146	7.1	33
208	Quantifying Efficiency Loss of Perovskite Solar Cells by a Modified Detailed Balance Model. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701586	21.8	64
207	Highly efficient planar perovskite solar cells achieved by simultaneous defect engineering and formation kinetic control. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 23865-23874	13	28
206	Thermionic EmissionBased Interconnecting Layer Featuring Solvent Resistance for Monolithic Tandem Solar Cells with Solution-Processed Perovskites. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801954	21.8	31
205	Thick TiO <sub>2</sub> -Based Top Electron Transport Layer on Perovskite for Highly Efficient and Stable Solar Cells. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2891-2898	20.1	55
204	Solar Cells: Thermionic EmissionBased Interconnecting Layer Featuring Solvent Resistance for Monolithic Tandem Solar Cells with Solution-Processed Perovskites (Adv. Energy Mater. 36/2018). <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1870155	21.8	2
203	All-Perovskite Emission Architecture for White Light-Emitting Diodes. <i>ACS Nano</i> , <b>2018</b> , 12, 10486-10492	16.7	61
202	Improving the stability and performance of perovskite solar cells via off-the-shelf post-device ligand treatment. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2253-2262	35.4	137

201	Novel Direct Nanopatterning Approach to Fabricate Periodically Nanostructured Perovskite for Optoelectronic Applications. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1606525	15.6	75
200	Controllable Crystallization of CH <sub>3</sub> NH <sub>3</sub> Sn <sub>0.25</sub> Pb <sub>0.75</sub> I <sub>3</sub> Perovskites for Hysteresis-Free Solar Cells with Efficiency Reaching 15.2%. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1605469	15.6	68
199	Toward All Room-Temperature, Solution-Processed, High-Performance Planar Perovskite Solar Cells: A New Scheme of Pyridine-Promoted Perovskite Formation. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604695	24	142
198	Pre- and post-treatments free nanocomposite based hole transport layer for high performance organic solar cells with considerably enhanced reproducibility. <i>Nano Energy</i> , <b>2017</b> , 34, 76-85	17.1	35
197	Alkyl Side-Chain Engineering in Wide-Bandgap Copolymers Leading to Power Conversion Efficiencies over 10. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604251	24	199
196	Exploring the Way To Approach the Efficiency Limit of Perovskite Solar Cells by Drift-Diffusion Model. <i>ACS Photonics</i> , <b>2017</b> , 4, 934-942	6.3	74
195	Recent progress of interconnecting layer for tandem organic solar cells. <i>Science China Chemistry</i> , <b>2017</b> , 60, 460-471	7.9	12
194	Transition metal oxides as hole-transporting materials in organic semiconductor and hybrid perovskite based solar cells. <i>Science China Chemistry</i> , <b>2017</b> , 60, 472-489	7.9	34
193	Room temperature formation of organic/inorganic lead halide perovskites: design of nanostructured and highly reactive intermediates. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 3599-3608	13	36
192	Highly Efficient Ternary-Blend Polymer Solar Cells Enabled by a Nonfullerene Acceptor and Two Polymer Donors with a Broad Composition Tolerance. <i>Advanced Materials</i> , <b>2017</b> , 29, 1704271	24	196
191	Effects of Self-Assembled Monolayer Modification of Nickel Oxide Nanoparticles Layer on the Performance and Application of Inverted Perovskite Solar Cells. <i>ChemSusChem</i> , <b>2017</b> , 10, 3794-3803	8.3	116
190	A Switchable Interconnecting Layer for High Performance Tandem Organic Solar Cell. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1701164	21.8	25
189	Plasmon-Electrical Effects on Organic Solar Cells by Incorporation of Metal Nanostructures. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2016</b> , 22, 1-9	3.8	40
188	Evolution of Diffusion Length and Trap State Induced by Chloride in Perovskite Solar Cell. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 21248-21253	3.8	55
187	Polarization Control by Using Anisotropic 3-D Chiral Structures. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2016</b> , 64, 4687-4694	4.9	18
186	Strongly enhanced and directionally tunable second-harmonic radiation from a plasmonic particle-in-cavity nanoantenna. <i>Physical Review A</i> , <b>2016</b> , 94,	2.6	13
185	Au Multimer@MoS <sub>2</sub> hybrid structures for efficient photocatalytical hydrogen production via strongly plasmonic coupling effect. <i>Nano Energy</i> , <b>2016</b> , 30, 549-558	17.1	80
184	Polyhedral Oligomeric Silsesquioxane Enhances the Brightness of Perovskite Nanocrystal-Based Green Light-Emitting Devices. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 4398-4404	6.4	95



183	Efficient near-infrared light-emitting diodes based on organometallic halide perovskite-poly(2-ethyl-2-oxazoline) nanocomposite thin films. <i>Nanoscale</i> , <b>2016</b> , 8, 19846-19852	7.7	36
182	Solution-Processed Metal Oxides as Efficient Carrier Transport Layers for Organic Photovoltaics. <i>Small</i> , <b>2016</b> , 12, 416-31	11	57
181	Room-Temperature Solution-Processed NiOx:PbI2 Nanocomposite Structures for Realizing High-Performance Perovskite Photodetectors. <i>ACS Nano</i> , <b>2016</b> , 10, 6808-15	16.7	98
180	Characterization, modeling, and analysis of organic light-emitting diodes with different structures. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 581-592	7.2	15
179	The incorporation of thermionic emission and work function tuning layer into intermediate connecting layer for high performance tandem organic solar cells. <i>Nano Energy</i> , <b>2016</b> , 21, 123-132	17.1	21
178	Room-temperature solution-processed and metal oxide-free nano-composite for the flexible transparent bottom electrode of perovskite solar cells. <i>Nanoscale</i> , <b>2016</b> , 8, 5946-53	7.7	71
177	Enhancing the Brightness of Cesium Lead Halide Perovskite Nanocrystal Based Green Light-Emitting Devices through the Interface Engineering with Perfluorinated Ionomer. <i>Nano Letters</i> , <b>2016</b> , 16, 1415-20	11.5	606
176	Perovskite-organic hybrid tandem solar cells using a nanostructured perovskite layer as the light window and a PFN/doped-MoO3/MoO3 multilayer as the interconnecting layer. <i>Nanoscale</i> , <b>2016</b> , 8, 3638-46	7.7	56
175	Pinhole-Free and Surface-Nanostructured NiOx Film by Room-Temperature Solution Process for High-Performance Flexible Perovskite Solar Cells with Good Stability and Reproducibility. <i>ACS Nano</i> , <b>2016</b> , 10, 1503-11	16.7	390
174	Recent Advances in Organic Photovoltaics: Device Structure and Optical Engineering Optimization on the Nanoscale. <i>Small</i> , <b>2016</b> , 12, 1547-71	11	68
173	Exciton delocalization incorporated drift-diffusion model for bulk-heterojunction organic solar cells. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 213101	2.5	16
172	Organic Solar Cells: High Efficiency Organic Solar Cells Achieved by the Simultaneous Plasmon-Optical and Plasmon-Electrical Effects from Plasmonic Asymmetric Modes of Gold Nanostars (Small 37/2016). <i>Small</i> , <b>2016</b> , 12, 5102-5102	11	4
171	High Efficiency Organic Solar Cells Achieved by the Simultaneous Plasmon-Optical and Plasmon-Electrical Effects from Plasmonic Asymmetric Modes of Gold Nanostars. <i>Small</i> , <b>2016</b> , 12, 5200-5207	11	64
170	Experimental and theoretical investigation of macro-periodic and micro-random nanostructures with simultaneously spatial translational symmetry and long-range order breaking. <i>Scientific Reports</i> , <b>2015</b> , 5, 7876	4.9	10
169	A low temperature gradual annealing scheme for achieving high performance perovskite solar cells with no hysteresis. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 14424-14430	13	32
168	MoOx and V2Ox as hole and electron transport layers through functionalized intercalation in normal and inverted organic optoelectronic devices. <i>Light: Science and Applications</i> , <b>2015</b> , 4, e273-e273	16.7	149
167	High-Performance Organic Solar Cells with Broadband Absorption Enhancement and Reliable Reproducibility Enabled by Collective Plasmonic Effects. <i>Advanced Optical Materials</i> , <b>2015</b> , 3, 1220-1231	8.1	61
166	Metallated conjugation in small-sized-molecular donors for solution-processed organic solar cells. <i>Science China Chemistry</i> , <b>2015</b> , 58, 347-356	7.9	10

165	An all-copper plasmonic sandwich system obtained through directly depositing copper NPs on a CVD grown graphene/copper film and its application in SERS. <i>Nanoscale</i> , <b>2015</b> , 7, 11291-9	7.7	60
164	Post-treatment-Free Solution-Processed Non-stoichiometric NiO(x) Nanoparticles for Efficient Hole-Transport Layers of Organic Optoelectronic Devices. <i>Advanced Materials</i> , <b>2015</b> , 27, 2930-7	24	225
163	Efficient hole transport layers with widely tunable work function for deep HOMO level organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 23955-23963	13	32
162	Optically enhanced semi-transparent organic solar cells through hybrid metal/nanoparticle/dielectric nanostructure. <i>Nano Energy</i> , <b>2015</b> , 17, 187-195	17.1	46
161	Smooth CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> from controlled solid-gas reaction for photovoltaic applications. <i>RSC Advances</i> , <b>2015</b> , 5, 73760-73766	3.7	16
160	Broadband near-field enhancement in the macro-periodic and micro-random structure with a hybridized excitation of propagating Bloch-plasmonic and localized surface-plasmonic modes. <i>Nanoscale</i> , <b>2015</b> , 7, 16798-804	7.7	10
159	A general design rule to manipulate photocarrier transport path in solar cells and its realization by the plasmonic-electrical effect. <i>Scientific Reports</i> , <b>2015</b> , 5, 8525	4.9	38
158	Locally Welded Silver Nano-Network Transparent Electrodes with High Operational Stability by a Simple Alcohol-Based Chemical Approach. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 4211-4218	15.6	90
157	A Smooth CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Film via a New Approach for Forming the PbI <sub>2</sub> Nanostructure Together with Strategically High CH <sub>3</sub> NH <sub>3</sub> I Concentration for High Efficient Planar-Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1501354	21.8	193
156	A New Interconnecting Layer of Metal Oxide/Dipole Layer/Metal Oxide for Efficient Tandem Organic Solar Cells. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500631	21.8	34
155	Organic-Inorganic Perovskite Light-Emitting Electrochemical Cells with a Large Capacitance. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 7226-7232	15.6	77
154	Synergic Effects of Randomly Aligned SWCNT Mesh and Self-Assembled Molecule Layer for High-Performance, Low-Bandgap, Polymer Solar Cells with Fast Charge Extraction. <i>Advanced Materials Interfaces</i> , <b>2015</b> , 2, 1500324	4.6	20
153	The efficiency limit of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite solar cells. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 221104	3.4	374
152	Using novel metal oxides and multiple plasmonic nanostructures for emerging organic optoelectronic devices <b>2015</b> ,		1
151	Vacuum-assisted thermal annealing of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> for highly stable and efficient perovskite solar cells. <i>ACS Nano</i> , <b>2015</b> , 9, 639-46	16.7	282
150	Photochemically synthesized silver nanostructures on tapered fiber as plasmonic tweezers for surface enhanced Raman scattering applications. <i>Vacuum</i> , <b>2015</b> , 118, 171-176	3.7	10
149	Breaking the space charge limit in organic solar cells by a novel plasmonic-electrical concept. <i>Scientific Reports</i> , <b>2014</b> , 4, 6236	4.9	51
148	Functions of self-assembled ultrafine TiO <sub>2</sub> nanocrystals for high efficient dye-sensitized solar cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 5367-73	9.5	17



147	Lending Triarylphosphine Oxide to Phenanthroline: a Facile Approach to High-Performance Organic Small-Molecule Cathode Interfacial Material for Organic Photovoltaics utilizing Air-Stable Cathodes. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 6540-6547	15.6	84
146	Substantial performance improvement in inverted polymer light-emitting diodes via surface plasmon resonance induced electrode quenching control. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 11001-6	9.5	47
145	Recent advances in transition metal complexes and light-management engineering in organic optoelectronic devices. <i>Advanced Materials</i> , <b>2014</b> , 26, 5368-98	24	229
144	Photovoltaic Mode Ultraviolet Organic Photodetectors with High On/Off Ratio and Fast Response. <i>Advanced Optical Materials</i> , <b>2014</b> , 2, 1082-1089	8.1	29
143	Selective growth and integration of silver nanoparticles on silver nanowires at room conditions for transparent nano-network electrode. <i>ACS Nano</i> , <b>2014</b> , 8, 10980-7	16.7	100
142	The emerging multiple metal nanostructures for enhancing the light trapping of thin film organic photovoltaic cells. <i>Chemical Communications</i> , <b>2014</b> , 50, 11984-93	5.8	43
141	A solution-processable diketopyrrolopyrrole dye molecule with (fluoronaphthyl)thienyl endgroups for organic solar cells. <i>Dyes and Pigments</i> , <b>2014</b> , 101, 51-57	4.6	36
140	Highly Intensified Surface Enhanced Raman Scattering by Using Monolayer Graphene as the Nanospacer of Metal Film-Metal Nanoparticle Coupling System. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3114-3122	15.6	151
139	Polarity continuation and frustration in ZnSe nanospirals. <i>Scientific Reports</i> , <b>2014</b> , 4, 7447	4.9	6
138	MULTI-PHYSICAL PROPERTIES OF PLASMONIC ORGANIC SOLAR CELLS (Invited Paper). <i>Progress in Electromagnetics Research</i> , <b>2014</b> , 146, 25-46	3.8	10
137	Observing abnormally large group velocity at the plasmonic band edge via a universal eigenvalue analysis. <i>Optics Letters</i> , <b>2014</b> , 39, 158-61	3	10
136	Over 1.1 eV Workfunction Tuning of Cesium Intercalated Metal Oxides for Functioning as Both Electron and Hole Transport Layers in Organic Optoelectronic Devices. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 7348-7356	15.6	37
135	Introduction to the OQE special issue on numerical simulation of optoelectronic devices NUSOD. <i>Optical and Quantum Electronics</i> , <b>2013</b> , 45, 571-571	2.4	
134	Efficiency Enhancement of Organic Solar Cells by Using Shape-Dependent Broadband Plasmonic Absorption in Metallic Nanoparticles. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 2728-2735	15.6	256
133	Low-temperature solution-processed hydrogen molybdenum and vanadium bronzes for an efficient hole-transport layer in organic electronics. <i>Advanced Materials</i> , <b>2013</b> , 25, 2051-5	24	230
132	A reduced electron-extraction barrier at an interface between a polymer poly(3-hexylthiophene) layer and an indium tin oxide layer. <i>Organic Electronics</i> , <b>2013</b> , 14, 457-463	3.5	3
131	Enhanced charge extraction in organic solar cells through electron accumulation effects induced by metal nanoparticles. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 3372	35.4	84
130	Improved light outcoupling and mode analysis of top-emitting OLEDs on periodically corrugated substrates <b>2013</b> ,		2

129	Plasmonic Electrically Functionalized TiO <sub>2</sub> for High-Performance Organic Solar Cells. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 4255-4261	15.6	124
128	Polarization-independent efficiency enhancement of organic solar cells by using 3-dimensional plasmonic electrode. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 153304	3.4	44
127	Al-TiO <sub>2</sub> composite-modified single-layer graphene as an efficient transparent cathode for organic solar cells. <i>ACS Nano</i> , <b>2013</b> , 7, 1740-7	16.7	80
126	Introduction to Organic Solar Cells. <i>Green Energy and Technology</i> , <b>2013</b> , 1-16	0.6	8
125	Theoretical Studies of Plasmonic Effects in Organic Solar Cells. <i>Green Energy and Technology</i> , <b>2013</b> , 177-210		
124	Experimental Studies of Plasmonic Nanoparticle Effects on Organic Solar Cells. <i>Green Energy and Technology</i> , <b>2013</b> , 211-242	0.6	1
123	Tuning optical responses of metallic dipole nanoantenna using graphene. <i>Optics Express</i> , <b>2013</b> , 21, 31824-9	3.9	36
122	Room-temperature solution-processed molybdenum oxide as a hole transport layer with Ag nanoparticles for highly efficient inverted organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 6614	13	78
121	Broadband absorption enhancement of organic solar cells with interstitial lattice patterned metal nanoparticles. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 251112	3.4	12
120	Semitransparent organic solar cells with hybrid monolayer graphene/metal grid as top electrodes. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 113303	3.4	45
119	A study of optical properties enhancement in low-bandgap polymer solar cells with embedded PEDOT:PSS gratings. <i>Solar Energy Materials and Solar Cells</i> , <b>2012</b> , 99, 327-332	6.4	18
118	Polarization-induced charge distribution at homogeneous zincblende/wurtzite heterostructural junctions in ZnSe nanobelts. <i>Advanced Materials</i> , <b>2012</b> , 24, 1328-32	24	27
117	Optical and electrical effects of gold nanoparticles in the active layer of polymer solar cells. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 1206-1211		203
116	Large-area, high-quality self-assembly electron transport layer for organic optoelectronic devices. <i>Organic Electronics</i> , <b>2012</b> , 13, 2042-2046	3.5	13
115	Charge dynamics in solar cells with a blend of $\pi$ -conjugated polymer-fullerene studied by transient photo-generated voltage. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 8397-402	3.6	3
114	Dual plasmonic nanostructures for high performance inverted organic solar cells. <i>Advanced Materials</i> , <b>2012</b> , 24, 3046-52	24	604
113	Surface Plasmon and Scattering-Enhanced Low-Bandgap Polymer Solar Cell by a Metal Grating Back Electrode. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 1203-1207	21.8	152
112	Efficient Inverted Polymer Solar Cells with Directly Patterned Active Layer and Silver Back Grating. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 7200-7206	3.8	80

111	Unidirectional and wavelength-selective photonic sphere-array nanoantennas. <i>Optics Letters</i> , <b>2012</b> , 37, 2112-4	3	30
110	The roles of metallic rectangular-grating and planar anodes in the photocarrier generation and transport of organic solar cells. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 223302	3-4	13
109	Mixing plasmonic Au nanoparticles into all polymer layers for improving the efficiency of organic solar cells <b>2012</b> ,		1
108	Optical and electrical study of organic solar cells with a 2D grating anode. <i>Optics Express</i> , <b>2012</b> , 20, 2572-80	3-4	46
107	Light harvesting improvement of organic solar cells with self-enhanced active layer designs. <i>Optics Express</i> , <b>2012</b> , 20, 8175-85	3-3	27
106	Broadband enhancement of spontaneous emission in a photonic-plasmonic structure. <i>Optics Letters</i> , <b>2012</b> , 37, 2037-9	3	13
105	Finite-Element-Based Generalized Impedance Boundary Condition for Modeling Plasmonic Nanostructures. <i>IEEE Nanotechnology Magazine</i> , <b>2012</b> , 11, 336-345	2.6	32
104	Study on spontaneous emission in complex multilayered plasmonic system via surface integral equation approach with layered medium Green's function. <i>Optics Express</i> , <b>2012</b> , 20, 20210-21	3-3	33
103	Improving the efficiency of polymer solar cells by incorporating gold nanoparticles into all polymer layers. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 153304	3-4	145
102	Optical and electrical properties of efficiency enhanced polymer solar cells with Au nanoparticles in a PEDOT:PSS layer. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 16349		244
101	Near-field multiple scattering effects of plasmonic nanospheres embedded into thin-film organic solar cells. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 113304	3-4	64
100	Largely extended light-emission shift of ZnSe nanostructures with temperature. <i>Applied Optics</i> , <b>2011</b> , 50, G37-41	0.2	5
99	Optical design of organic solar cell with hybrid plasmonic system. <i>Optics Express</i> , <b>2011</b> , 19, 15908-18	3-3	22
98	Angular response of thin-film organic solar cells with periodic metal back nanostrips. <i>Optics Letters</i> , <b>2011</b> , 36, 478-80	3	54
97	Simultaneous optimization of charge-carrier balance and luminous efficacy in highly efficient white polymer light-emitting devices. <i>Advanced Materials</i> , <b>2011</b> , 23, 2976-80	24	195
96	Using Magneto-Electroluminescence As a Fingerprint to Identify the Carrier-to-Photon Conversion Process in Dye-Doped OLEDs. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 20295-20300	3.8	9
95	Efficient hole collection by introducing ultra-thin UV $\lambda$ zone treated Au in polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2011</b> , 95, 904-908	6.4	34
94	A possible mechanism to tune magneto-electroluminescence in organic light-emitting diodes through adjusting the triplet exciton density. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 143305	3-4	10

93	Systematic study of spontaneous emission in a two-dimensional arbitrary inhomogeneous environment. <i>Physical Review A</i> , <b>2011</b> , 83,	2.6	20
92	Polymer solar cells with gold nanoclusters decorated multi-layer graphene as transparent electrode. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 223302	3.4	40
91	Improving polymer solar cell performances by manipulating the self-organization of polymer. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 243302	3.4	11
90	Magnetic field effects on the electroluminescence of organic light emitting devices: A tool to indicate the carrier mobility. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 163302	3.4	21
89	Magnetic field modulated exciton generation in organic semiconductors: An intermolecular quantum correlated effect. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	20
88	ZnSe Heterocrystalline Junctions Based on Zinc Blende/Wurtzite Polytypism. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 1411-1415	3.8	11
87	A comprehensive study for the plasmonic thin-film solar cell with periodic structure. <i>Optics Express</i> , <b>2010</b> , 18, 5993-6007	3.3	58
86	Twinning mediated growth of ZnSe tri- and bi-crystal nanobelts with single crystalline wurtzite nanobelts as building blocks. <i>CrystEngComm</i> , <b>2010</b> , 12, 150-158	3.3	9
85	. <i>IEEE Transactions on Electron Devices</i> , <b>2010</b> , 57, 125-128	2.9	9
84	High Efficiency Blue Organic LEDs Achieved By an Integrated Fluorescence/Interlayer Phosphorescence Emission Architecture. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 648-655	15.6	38
83	Red organic light emitting devices with reduced efficiency roll-off behavior by using hybrid fluorescent/phosphorescent emission structure. <i>Thin Solid Films</i> , <b>2010</b> , 519, 872-875	2.2	11
82	Improving efficiency roll-off in organic light emitting devices with a fluorescence-interlayer-phosphorescence emission architecture. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 133302	3.4	22
81	Nanoparticle-induced resonant tunneling behaviors in small molecule organic light-emitting devices. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 123303	3.4	23
80	A facile synthesis of zinc blende ZnSe nanocrystals. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 125410	3	16
79	Hybrid Nanoparticle/Organic Devices with Strong Resonant Tunneling Behaviors. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 2648-2653	15.6	21
78	The structural composite effect of Au/WO <sub>3</sub> /Al interconnecting electrode on performance of each unit in stacked OLEDs. <i>Organic Electronics</i> , <b>2009</b> , 10, 402-407	3.5	7
77	Tunable full-color emission of two-unit stacked organic light emitting diodes with dual-metal intermediate electrode. <i>Journal of Organometallic Chemistry</i> , <b>2009</b> , 694, 2712-2716	2.3	26
76	Enhanced efficiency of a fluorescing nanoparticle with a silver shell. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 188, 012055	0.3	

75	Indium Tin Oxide Modified by Au and Vanadium Pentoxide as an Efficient Anode for Organic Light-Emitting Devices. <i>IEEE Transactions on Electron Devices</i> , <b>2008</b> , 55, 2517-2520	2.9	17
74	Real-Time Color-Tunable Electroluminescence From Stacked Organic LEDs Using Independently Addressable Middle Electrode. <i>IEEE Photonics Technology Letters</i> , <b>2008</b> , 20, 1154-1156	2.2	3
73	Synthesis and luminescent properties of GdSrAl <sub>3</sub> O <sub>7</sub> :Tb <sup>3+</sup> phosphor under VUV/UV excitation. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 463, 302-305	5.7	22
72	{111} Twinned ZnSe Bicrystal Nanobelts Filled with Twinning. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 4903-4907	3.8	18
71	Growth of ZnSe Nanospirals with Bending Mediated by Lomer-Cottrell Sessile Dislocations through Varying Pressure. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 3829-3833	3.5	12
70	Independently controllable stacked OLEDs with high efficiency by using semitransparent Al/WO <sub>3</sub> /Ag intermediate connecting layer. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 105108	3	4
69	High-efficiency blue fluorescent organic light emitting devices based on double emission layers. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 055103	3	17
68	Voltage-controlled colour-tunable microcavity OLEDs with enhanced colour purity. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 025106	3	7
67	Comprehensive investigation of absolute optical properties of organic materials. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 155109	3	21
66	Highly efficient and tunable fluorescence of a nanofluorophore in silica/metal dual shells with plasmonic resonance. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 024301	2.5	5
65	An effective intermediate Al/Au electrode for stacked color-tunable organic light emitting devices <b>2008</b> ,		2
64	Highly efficient organic light-emitting devices with surface-modified metal anode by vanadium pentoxide. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 062003	3	11
63	The growth mechanism of ZnO single-crystal nanorods synthesized by polymer complexing with zinc salts. <i>Applied Physics A: Materials Science and Processing</i> , <b>2008</b> , 91, 157-160	2.6	5
62	An effective intermediate Al/Au electrode for stacked color-tunable organic light emitting devices. <i>Applied Physics A: Materials Science and Processing</i> , <b>2008</b> , 91, 501-506	2.6	5
61	Fabrication and characterization of amorphous silica nanostructures. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2008</b> , 372, 4622-4626	2.3	9
60	Linearly resistive humidity sensor based on quasi one-dimensional ZnSe nanostructures. <i>Chemical Physics Letters</i> , <b>2008</b> , 457, 198-201	2.5	33
59	Transparent Al/WO <sub>3</sub> /Au film as anode for high efficiency organic light-emitting diodes. <i>Organic Electronics</i> , <b>2008</b> , 9, 964-967	3.5	16
58	Triple-Crystal Zinc Selenide Nanobelts. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 9055-9059	3.8	27

57	The Electroluminescent Decay Mechanism of Rare-Earth Ions in OLEDs Based on a Terbium Complex. <i>IEEE Photonics Technology Letters</i> , <b>2007</b> , 19, 1178-1180	2.2	3
56	A Simple method to prepare multi-walled carbon nanotube/ZnO nanoparticle composites. <i>Applied Physics A: Materials Science and Processing</i> , <b>2007</b> , 89, 525-528	2.6	25
55	Effects of carrier barrier on voltage controllable color tunable OLEDs. <i>Applied Physics A: Materials Science and Processing</i> , <b>2007</b> , 89, 667-671	2.6	7
54	Comprehensive analysis and optimal design of top-emitting organic light-emitting devices. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 113107	2.5	21
53	Synthesis and analysis of abnormal wurtzite ZnSe nanowheels. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 044302	3.2	29
52	Highly efficient fluorescence of a fluorescing nanoparticle with a silver shell. <i>Optics Express</i> , <b>2007</b> , 15, 7083	3.3	13
51	Efficient optical modeling of spontaneous emission in a cylindrically layered nanostructure. <i>Optics Express</i> , <b>2007</b> , 15, 10356-61	3.3	
50	Improving the viewing angle properties of microcavity OLEDs by using dispersive gratings. <i>Optics Express</i> , <b>2007</b> , 15, 13288-94	3.3	29
49	Efficient and Rigorous Modeling of Light Emission in Planar Multilayer Organic Light-Emitting Diodes. <i>Journal of Display Technology</i> , <b>2007</b> , 3, 110-117		27
48	Modifications of the exciton lifetime and internal quantum efficiency for organic light-emitting devices with a weak/strong microcavity. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 221112	3.4	22
47	Improving the efficiency of organic light emitting devices by using co-host electron transport layer. <i>Thin Solid Films</i> , <b>2006</b> , 509, 193-196	2.2	14
46	A novel green emitting phosphor Ca <sub>1.5</sub> Y <sub>1.5</sub> Al <sub>3.5</sub> Si <sub>1.5</sub> O <sub>12</sub> :Tb <sup>3+</sup> . <i>Materials Chemistry and Physics</i> , <b>2006</b> , 100, 372-374	4.4	34
45	Organic light-emitting diodes based on a cohost electron transporting composite. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 113510	3.4	40
44	Color tunable organic light-emitting diodes by using europium organometallic complex. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 251108	3.4	31
43	Synthesis of wurtzite ZnSe nanorings by thermal evaporation. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 183110	3.4	46
42	ZnO nanorods on in-situ synthesized ZnSe grains. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 802-6	1.3	3
41	ZnO nanorod synthesis from Zn-based III-VI semiconductors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2006</b> , 203, 1376-1382	1.6	
40	Self-catalytic ZnSe nanorods on grains synthesized using thermal evaporation method. <i>Applied Physics A: Materials Science and Processing</i> , <b>2006</b> , 83, 301-304	2.6	7



39	ZnO nanorods grown on ZnSe particles by the chemical vapor deposition method. <i>Applied Physics A: Materials Science and Processing</i> , <b>2006</b> , 83, 421-425	2.6	4
38	Controllable synthesis and optical properties of novel ZnO cone arrays via vapor transport at low temperature. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 2733-8	3.4	64
37	Synthesis, vacuum ultraviolet and near ultraviolet-excited luminescent properties of GdCaAl <sub>3</sub> O <sub>7</sub> : RE <sup>3+</sup> (RE=Eu, Tb). <i>Journal of Solid State Chemistry</i> , <b>2005</b> , 178, 3004-3009	3.3	46
36	Synthesis and properties of ZnO multipod structures. <i>Journal of Crystal Growth</i> , <b>2005</b> , 274, 430-437	1.6	11
35	Efficiency and stability of different tris(8-hydroxyquinoline) aluminium (Alq <sub>3</sub> ) derivatives in OLED applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2005</b> , 116, 75-81	3.1	40
34	Enhanced photocatalytic activity of Ce <sup>3+</sup> /TiO <sub>2</sub> for 2-mercaptobenzothiazole degradation in aqueous suspension for odour control. <i>Applied Catalysis A: General</i> , <b>2005</b> , 285, 181-189	5.1	375
33	Optical properties of a novel yellow fluorescent dopant for use in organic LEDs. <i>Applied Physics A: Materials Science and Processing</i> , <b>2005</b> , 81, 517-521	2.6	7
32	Photoluminescence and Electron Paramagnetic Resonance of ZnO Tetrapod Structures. <i>Advanced Functional Materials</i> , <b>2004</b> , 14, 856-864	15.6	522
31	Visible photoluminescence in ZnO tetrapod and multipod structures. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 2635-2637	3.4	141
30	Poly(3-hexylthiophene):TiO <sub>2</sub> nanocomposites for solar cell applications. <i>Nanotechnology</i> , <b>2004</b> , 15, 1156-1161	3.4	169
29	Theoretical analysis of diffused quantum-well lasers and optical amplifiers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2003</b> , 9, 698-707	3.8	5
28	InGaAs/InGaAsP diffused quantum wells optical amplifiers and modulators <b>2001</b> ,		1
27	Tailoring light and heavy holes of GaAsP-AlGaAs quantum wells by using interdiffusion for polarization-independent amplifier applications. <i>IEEE Journal of Quantum Electronics</i> , <b>2000</b> , 36, 164-174	2	8
26	Optical properties of InGaAs/InAlAs diffused double quantum wells. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 2956-2966	2.5	5
25	Interdiffusion induced polarization-independent optical gain of an InGaAs-InP quantum-well with carrier effects. <i>IEEE Journal of Quantum Electronics</i> , <b>1999</b> , 35, 913-921	2	4
24	Interdiffusion induced modification of surface-acoustic-wave AlGaAs-GaAs quantum-well modulators. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>1998</b> , 4, 758-764	3.8	2
23	AlGaAs-GaAs quantum-well electrooptic phase modulator with disorder delineated optical confinement. <i>IEEE Journal of Quantum Electronics</i> , <b>1998</b> , 34, 84-92	2	3
22	Interdiffused AlGaAs-GaAs quantum well for improved electroabsorptive modulation. <i>IEEE Journal of Quantum Electronics</i> , <b>1998</b> , 34, 1162-1170	2	3

21	Asymmetric double-quantum-well phase modulator using surface acoustic waves. <i>IEEE Journal of Quantum Electronics</i> , <b>1998</b> , 34, 1846-1853	2	8
20	Polarization-insensitive electroabsorption by use of quantum well interdiffusion. <i>Applied Optics</i> , <b>1998</b> , 37, 1674-81	1.7	10
19	Electro-optic and electro-absorptive modulations of AlGaAs/GaAs quantum well using surface acoustic wave. <i>Journal of Applied Physics</i> , <b>1998</b> , 83, 858-866	2.5	6
18	The effect of growth interruption on the properties of InGaAs/InAlAs quantum well structures. <i>Applied Physics Letters</i> , <b>1998</b> , 72, 338-340	3.4	5
17	Electro-absorptive properties of interdiffused InGaAsP/InP quantum wells. <i>Journal of Applied Physics</i> , <b>1997</b> , 82, 3861-3869	2.5	12
16	Disorder-Delineated AlGaAs/GaAs Quantum-Well Phase Modulator. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 484, 453		
15	The applications of an interdiffused quantum well in a normally on electroabsorptive Fabry-Perot reflection modulator. <i>IEEE Journal of Quantum Electronics</i> , <b>1997</b> , 33, 382-392	2	15
14	Polarization-insensitive electroabsorptive modulation using interdiffused InGaAs(P)-InP quantum wells. <i>IEEE Journal of Quantum Electronics</i> , <b>1997</b> , 33, 1316-1322	2	11
13	High Performance Fabry-Perot Modulator Using Interdiffused AlGaAs/GaAs Quantum Wells. <i>Japanese Journal of Applied Physics</i> , <b>1996</b> , 35, L496-L498	1.4	3
12	Laser-induced etching of silicon. <i>Applied Physics A: Materials Science and Processing</i> , <b>1995</b> , 61, 45-50	2.6	18
11	. <i>IEEE Photonics Technology Letters</i> , <b>1995</b> , 7, 881-883	2.2	6
10	The Effect of Composition Modification on the Optical Polarization Independence in Semiconductor Strain Quantum Wells. <i>Materials Research Society Symposia Proceedings</i> , <b>1995</b> , 417, 277		2
9	Defect Behaviors in Perovskite Light-Emitting Diodes1702-1728		5
8	High-Performance Semitransparent Organic Solar Cells Enabled by Improved Charge Transport and Optical Engineering of Ternary Blend Active Layer. <i>Solar Rrl</i> ,2100785	7.1	3
7	Recent Progress on Emerging Transparent Metallic Electrodes for Flexible Organic and Perovskite Photovoltaics. <i>Solar Rrl</i> ,2100830	7.1	2
6	Stability of electroluminescent perovskite quantum dots light-emitting diode. <i>Nano Select</i> ,	3.1	0
5	Self-Polymerization of Monomer and Induced Interactions with Perovskite for Highly Performed and Stable Perovskite Solar Cells. <i>Advanced Functional Materials</i> ,2105290	15.6	4
4	Multifunctional Ion-Lock Interface Layer Achieved by Solid-Solid Contact Approach for Stabilizing Perovskite Solar Cells. <i>Advanced Functional Materials</i> ,2200473	15.6	4

3	Electron Delocalization in CsPbI <sub>3</sub> Quantum Dots Enables Efficient Light-Emitting Diodes with Improved Efficiency Roll-Off. <i>Advanced Optical Materials</i> ,2200189	8.1	3
2	Buried Interface Modification in Perovskite Solar Cells: A Materials Perspective. <i>Advanced Energy Materials</i> ,2104030	21.8	16
1	Energy Regulation in White-Light-Emitting Diodes. <i>ACS Energy Letters</i> ,2173-2188	20.1	7