

Wallace C H Choy

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58
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105
g-index

300
ext. papers

14,709
ext. citations

9
avg, IF

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#	Paper	IF	Citations
272	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> , 2016 , 16, 1415-20	11.5	606
271	Dual plasmonic nanostructures for high performance inverted organic solar cells. <i>Advanced Materials</i> , 2012 , 24, 3046-52	24	604
270	Photoluminescence and Electron Paramagnetic Resonance of ZnO Tetrapod Structures. <i>Advanced Functional Materials</i> , 2004 , 14, 856-864	15.6	522
269	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> , 2016 , 10, 1503-11	16.7	390
268	Enhanced photocatalytic activity of Ce3+TiO2 for 2-mercaptobenzothiazole degradation in aqueous suspension for odour control. <i>Applied Catalysis A: General</i> , 2005 , 285, 181-189	5.1	375
267	The efficiency limit of CH3NH3PbI3 perovskite solar cells. <i>Applied Physics Letters</i> , 2015 , 106, 221104	3.4	374
266	Vacuum-assisted thermal annealing of CH3NH3PbI3 for highly stable and efficient perovskite solar cells. <i>ACS Nano</i> , 2015 , 9, 639-46	16.7	282
265	Efficiency Enhancement of Organic Solar Cells by Using Shape-Dependent Broadband Plasmonic Absorption in Metallic Nanoparticles. <i>Advanced Functional Materials</i> , 2013 , 23, 2728-2735	15.6	256
264	Optical and electrical properties of efficiency enhanced polymer solar cells with Au nanoparticles in a PEDOTBSS layer. <i>Journal of Materials Chemistry</i> , 2011 , 21, 16349		244
263	Low-temperature solution-processed hydrogen molybdenum and vanadium bronzes for an efficient hole-transport layer in organic electronics. <i>Advanced Materials</i> , 2013 , 25, 2051-5	24	230
262	Recent advances in transition metal complexes and light-management engineering in organic optoelectronic devices. <i>Advanced Materials</i> , 2014 , 26, 5368-98	24	229
261	Post-treatment-Free Solution-Processed Non-stoichiometric NiO(x) Nanoparticles for Efficient Hole-Transport Layers of Organic Optoelectronic Devices. <i>Advanced Materials</i> , 2015 , 27, 2930-7	24	225
260	Optical and electrical effects of gold nanoparticles in the active layer of polymer solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 1206-1211		203
259	Alkyl Side-Chain Engineering in Wide-Bandgap Copolymers Leading to Power Conversion Efficiencies over 10. <i>Advanced Materials</i> , 2017 , 29, 1604251	24	199
258	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> , 2017 , 29, 1704271	24	196
257	Simultaneous optimization of charge-carrier balance and luminous efficacy in highly efficient white polymer light-emitting devices. <i>Advanced Materials</i> , 2011 , 23, 2976-80	24	195
256	A Smooth CH3NH3PbI3 Film via a New Approach for Forming the PbI2 Nanostructure Together with Strategically High CH3NH3I Concentration for High Efficient Planar-Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , 2015 , 5, 1501354	21.8	193

255	Poly(3-hexylthiophene):TiO ₂ nanocomposites for solar cell applications. <i>Nanotechnology</i> , 2004 , 15, 1156-1161	3.4	169
254	Surface Plasmon and Scattering-Enhanced Low-Bandgap Polymer Solar Cell by a Metal Grating Back Electrode. <i>Advanced Energy Materials</i> , 2012 , 2, 1203-1207	21.8	152
253	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> , 2014 , 24, 3114-3122	15.6	151
252	MoO _x and V ₂ O _x as hole and electron transport layers through functionalized intercalation in normal and inverted organic optoelectronic devices. <i>Light: Science and Applications</i> , 2015 , 4, e273-e273	16.7	149
251	Improving the efficiency of polymer solar cells by incorporating gold nanoparticles into all polymer layers. <i>Applied Physics Letters</i> , 2011 , 99, 153304	3.4	145
250	Perovskite Photovoltaics: The Significant Role of Ligands in Film Formation, Passivation, and Stability. <i>Advanced Materials</i> , 2019 , 31, e1805702	24	143
249	Toward All Room-Temperature, Solution-Processed, High-Performance Planar Perovskite Solar Cells: A New Scheme of Pyridine-Promoted Perovskite Formation. <i>Advanced Materials</i> , 2017 , 29, 1604695	24	142
248	Visible photoluminescence in ZnO tetrapod and multipod structures. <i>Applied Physics Letters</i> , 2004 , 84, 2635-2637	3.4	141
247	Improving the stability and performance of perovskite solar cells via off-the-shelf post-device ligand treatment. <i>Energy and Environmental Science</i> , 2018 , 11, 2253-2262	35.4	137
246	Plasmonic Electrically Functionalized TiO ₂ for High-Performance Organic Solar Cells. <i>Advanced Functional Materials</i> , 2013 , 23, 4255-4261	15.6	124
245	Effects of Self-Assembled Monolayer Modification of Nickel Oxide Nanoparticles Layer on the Performance and Application of Inverted Perovskite Solar Cells. <i>ChemSusChem</i> , 2017 , 10, 3794-3803	8.3	116
244	Water-Soluble Triazolium Ionic-Liquid-Induced Surface Self-Assembly to Enhance the Stability and Efficiency of Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1900417	15.6	102
243	Selective growth and integration of silver nanoparticles on silver nanowires at room conditions for transparent nano-network electrode. <i>ACS Nano</i> , 2014 , 8, 10980-7	16.7	100
242	Room-Temperature Solution-Processed NiO _x :PbI ₂ Nanocomposite Structures for Realizing High-Performance Perovskite Photodetectors. <i>ACS Nano</i> , 2016 , 10, 6808-15	16.7	98
241	Polyhedral Oligomeric Silsesquioxane Enhances the Brightness of Perovskite Nanocrystal-Based Green Light-Emitting Devices. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4398-4404	6.4	95
240	Locally Welded Silver Nano-Network Transparent Electrodes with High Operational Stability by a Simple Alcohol-Based Chemical Approach. <i>Advanced Functional Materials</i> , 2015 , 25, 4211-4218	15.6	90
239	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> , 2014 , 24, 6540-6547	15.6	84
238	Enhanced charge extraction in organic solar cells through electron accumulation effects induced by metal nanoparticles. <i>Energy and Environmental Science</i> , 2013 , 6, 3372	35.4	84

237	Strategic Synthesis of Ultrasmall NiCo ₂ O ₄ NPs as Hole Transport Layer for Highly Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1702722	21.8	82
236	Au Multimer@MoS ₂ hybrid structures for efficient photocatalytical hydrogen production via strongly plasmonic coupling effect. <i>Nano Energy</i> , 2016 , 30, 549-558	17.1	80
235	Al-TiO ₂ composite-modified single-layer graphene as an efficient transparent cathode for organic solar cells. <i>ACS Nano</i> , 2013 , 7, 1740-7	16.7	80
234	Efficient Inverted Polymer Solar Cells with Directly Patterned Active Layer and Silver Back Grating. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 7200-7206	3.8	80
233	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> , 2013 , 1, 6614	13	78
232	Organic-Inorganic Perovskite Light-Emitting Electrochemical Cells with a Large Capacitance. <i>Advanced Functional Materials</i> , 2015 , 25, 7226-7232	15.6	77
231	High-Quality Cuboid CH ₃ NH ₃ PbI ₃ Single Crystals for High Performance X-Ray and Photon Detectors. <i>Advanced Functional Materials</i> , 2019 , 29, 1806984	15.6	76
230	Novel Direct Nanopatterning Approach to Fabricate Periodically Nanostructured Perovskite for Optoelectronic Applications. <i>Advanced Functional Materials</i> , 2017 , 27, 1606525	15.6	75
229	Exploring the Way To Approach the Efficiency Limit of Perovskite Solar Cells by Drift-Diffusion Model. <i>ACS Photonics</i> , 2017 , 4, 934-942	6.3	74
228	High-Performance Blue Perovskite Light-Emitting Diodes Enabled by Efficient Energy Transfer between Coupled Quasi-2D Perovskite Layers. <i>Advanced Materials</i> , 2021 , 33, e2005570	24	74
227	Solution-Processed Metal Oxide Nanocrystals as Carrier Transport Layers in Organic and Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1804660	15.6	72
226	Biodegradable Materials and Green Processing for Green Electronics. <i>Advanced Materials</i> , 2020 , 32, e2001491	15.91	71
225	Room-temperature solution-processed and metal oxide-free nano-composite for the flexible transparent bottom electrode of perovskite solar cells. <i>Nanoscale</i> , 2016 , 8, 5946-53	7.7	71
224	Controllable Crystallization of CH ₃ NH ₃ Sn _{0.25} Pb _{0.75} I ₃ Perovskites for Hysteresis-Free Solar Cells with Efficiency Reaching 15.2%. <i>Advanced Functional Materials</i> , 2017 , 27, 1605469	15.6	68
223	Recent Advances in Organic Photovoltaics: Device Structure and Optical Engineering Optimization on the Nanoscale. <i>Small</i> , 2016 , 12, 1547-71	11	68
222	Near-field multiple scattering effects of plasmonic nanospheres embedded into thin-film organic solar cells. <i>Applied Physics Letters</i> , 2011 , 99, 113304	3.4	64
221	Controllable synthesis and optical properties of novel ZnO cone arrays via vapor transport at low temperature. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 2733-8	3.4	64
220	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> , 2016 , 12, 5200-5207	11	64

219	Quantifying Efficiency Loss of Perovskite Solar Cells by a Modified Detailed Balance Model. <i>Advanced Energy Materials</i> , 2018 , 8, 1701586	21.8	64
218	High-Performance Organic Solar Cells with Broadband Absorption Enhancement and Reliable Reproducibility Enabled by Collective Plasmonic Effects. <i>Advanced Optical Materials</i> , 2015 , 3, 1220-1231	8.1	61
217	All-Perovskite Emission Architecture for White Light-Emitting Diodes. <i>ACS Nano</i> , 2018 , 12, 10486-10492	16.7	61
216	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> , 2015 , 7, 11291-9	7.7	60
215	A comprehensive study for the plasmonic thin-film solar cell with periodic structure. <i>Optics Express</i> , 2010 , 18, 5993-6007	3.3	58
214	Solution-Processed Metal Oxides as Efficient Carrier Transport Layers for Organic Photovoltaics. <i>Small</i> , 2016 , 12, 416-31	11	57
213	Emerging Novel Metal Electrodes for Photovoltaic Applications. <i>Small</i> , 2018 , 14, e1703140	11	56
212	Perovskite-organic hybrid tandem solar cells using a nanostructured perovskite layer as the light window and a PFN/doped-MoO ₃ /MoO ₃ multilayer as the interconnecting layer. <i>Nanoscale</i> , 2016 , 8, 3638-46	7.7	56
211	Low-Bandgap Methylammonium-Rubidium Cation Sn-Rich Perovskites for Efficient Ultraviolet/Visible/Near Infrared Photodetectors. <i>Advanced Functional Materials</i> , 2018 , 28, 1706068	15.6	55
210	Evolution of Diffusion Length and Trap State Induced by Chloride in Perovskite Solar Cell. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 21248-21253	3.8	55
209	Thick TiO ₂ -Based Top Electron Transport Layer on Perovskite for Highly Efficient and Stable Solar Cells. <i>ACS Energy Letters</i> , 2018 , 3, 2891-2898	20.1	55
208	Angular response of thin-film organic solar cells with periodic metal back nanostrips. <i>Optics Letters</i> , 2011 , 36, 478-80	3	54
207	High Phase Stability in CsPbI ₃ Enabled by Pb-I Octahedra Anchors for Efficient Inorganic Perovskite Photovoltaics. <i>Advanced Materials</i> , 2020 , 32, e2000186	24	52
206	Breaking the space charge limit in organic solar cells by a novel plasmonic-electrical concept. <i>Scientific Reports</i> , 2014 , 4, 6236	4.9	51
205	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> , 2019 , 29, 1905339	15.6	50
204	Simultaneous Low-Order Phase Suppression and Defect Passivation for Efficient and Stable Blue Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2020 , 5, 2569-2579	20.1	49
203	Multifunctional Synthesis Approach of In:CuCrO ₂ Nanoparticles for Hole Transport Layer in High-Performance Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1902600	15.6	48
202	Substantial performance improvement in inverted polymer light-emitting diodes via surface plasmon resonance induced electrode quenching control. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 11001-6	9.5	47

201	Optically enhanced semi-transparent organic solar cells through hybrid metal/nanoparticle/dielectric nanostructure. <i>Nano Energy</i> , 2015 , 17, 187-195	17.1	46
200	Optical and electrical study of organic solar cells with a 2D grating anode. <i>Optics Express</i> , 2012 , 20, 2572-39	3.9	46
199	Synthesis of wurtzite ZnSe nanorings by thermal evaporation. <i>Applied Physics Letters</i> , 2006 , 88, 183110	3.4	46
198	Synthesis, vacuum ultraviolet and near ultraviolet-excited luminescent properties of GdCaAl ₃ O ₇ : RE ₃ ⁺ (RE=Eu, Tb). <i>Journal of Solid State Chemistry</i> , 2005 , 178, 3004-3009	3.3	46
197	Semitransparent organic solar cells with hybrid monolayer graphene/metal grid as top electrodes. <i>Applied Physics Letters</i> , 2013 , 102, 113303	3.4	45
196	Polarization-independent efficiency enhancement of organic solar cells by using 3-dimensional plasmonic electrode. <i>Applied Physics Letters</i> , 2013 , 102, 153304	3.4	44
195	The emerging multiple metal nanostructures for enhancing the light trapping of thin film organic photovoltaic cells. <i>Chemical Communications</i> , 2014 , 50, 11984-93	5.8	43
194	Plasmon-Electrical Effects on Organic Solar Cells by Incorporation of Metal Nanostructures. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016 , 22, 1-9	3.8	40
193	Polymer solar cells with gold nanoclusters decorated multi-layer graphene as transparent electrode. <i>Applied Physics Letters</i> , 2011 , 99, 223302	3.4	40
192	Organic light-emitting diodes based on a cohost electron transporting composite. <i>Applied Physics Letters</i> , 2006 , 88, 113510	3.4	40
191	Efficiency and stability of different tris(8-hydroxyquinoline) aluminium (Alq ₃) derivatives in OLED applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005 , 116, 75-81	3.1	40
190	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> , 2019 , 7, 23838-23853	13	38
189	A general design rule to manipulate photocarrier transport path in solar cells and its realization by the plasmonic-electrical effect. <i>Scientific Reports</i> , 2015 , 5, 8525	4.9	38
188	High Efficiency Blue Organic LEDs Achieved By an Integrated Fluorescence/Interlayer/Phosphorescence Emission Architecture. <i>Advanced Functional Materials</i> , 2010 , 20, 648-655	15.6	38
187	Efficient and Stable Red Perovskite Light-Emitting Diodes with Operational Stability >300 h. <i>Advanced Materials</i> , 2021 , 33, e2008820	24	38
186	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> , 2014 , 24, 7348-7356	15.6	37
185	Room temperature formation of organic/inorganic lead halide perovskites: design of nanostructured and highly reactive intermediates. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3599-3608	13	36
184	Efficient near-infrared light-emitting diodes based on organometallic halide perovskite-poly(2-ethyl-2-oxazoline) nanocomposite thin films. <i>Nanoscale</i> , 2016 , 8, 19846-19852	7.7	36

183	A solution-processable diketopyrrolopyrrole dye molecule with (fluoronaphthyl)thienyl endgroups for organic solar cells. <i>Dyes and Pigments</i> , 2014 , 101, 51-57	4.6	36
182	Tuning optical responses of metallic dipole nanoantenna using graphene. <i>Optics Express</i> , 2013 , 21, 31824-9	3.9	36
181	Pre- and post-treatments free nanocomposite based hole transport layer for high performance organic solar cells with considerably enhanced reproducibility. <i>Nano Energy</i> , 2017 , 34, 76-85	17.1	35
180	Transition metal oxides as hole-transporting materials in organic semiconductor and hybrid perovskite based solar cells. <i>Science China Chemistry</i> , 2017 , 60, 472-489	7.9	34
179	A New Interconnecting Layer of Metal Oxide/Dipole Layer/Metal Oxide for Efficient Tandem Organic Solar Cells. <i>Advanced Energy Materials</i> , 2015 , 5, 1500631	21.8	34
178	Efficient hole collection by introducing ultra-thin UV λ zone treated Au in polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 904-908	6.4	34
177	A novel green emitting phosphor Ca _{1.5} Y _{1.5} Al _{3.5} Si _{1.5} O ₁₂ :Tb ³⁺ . <i>Materials Chemistry and Physics</i> , 2006 , 100, 372-374	4.4	34
176	Crystallization, Properties, and Challenges of Low-Bandgap SnPb Binary Perovskites. <i>Solar Rrl</i> , 2018 , 2, 1800146	7.1	33
175	Study on spontaneous emission in complex multilayered plasmonic system via surface integral equation approach with layered medium Green's function. <i>Optics Express</i> , 2012 , 20, 20210-21	3.3	33
174	Linearly resistive humidity sensor based on quasi one-dimensional ZnSe nanostructures. <i>Chemical Physics Letters</i> , 2008 , 457, 198-201	2.5	33
173	A low temperature gradual annealing scheme for achieving high performance perovskite solar cells with no hysteresis. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14424-14430	13	32
172	Efficient hole transport layers with widely tunable work function for deep HOMO level organic solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23955-23963	13	32
171	Finite-Element-Based Generalized Impedance Boundary Condition for Modeling Plasmonic Nanostructures. <i>IEEE Nanotechnology Magazine</i> , 2012 , 11, 336-345	2.6	32
170	The mechanism of universal green antisolvents for intermediate phase controlled high-efficiency formamidinium-based perovskite solar cells. <i>Materials Horizons</i> , 2020 , 7, 934-942	14.4	32
169	Self-Assembled Quasi-3D Nanocomposite: A Novel p-Type Hole Transport Layer for High Performance Inverted Organic Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1706403	15.6	31
168	Color tunable organic light-emitting diodes by using europium organometallic complex. <i>Applied Physics Letters</i> , 2006 , 89, 251108	3.4	31
167	Thermionic Emission-Based Interconnecting Layer Featuring Solvent Resistance for Monolithic Tandem Solar Cells with Solution-Processed Perovskites. <i>Advanced Energy Materials</i> , 2018 , 8, 1801954	21.8	31
166	Unidirectional and wavelength-selective photonic sphere-array nanoantennas. <i>Optics Letters</i> , 2012 , 37, 2112-4	3	30

165	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> , 2020 , 10, 1903919	21.8	29
164	Photovoltaic Mode Ultraviolet Organic Photodetectors with High On/Off Ratio and Fast Response. <i>Advanced Optical Materials</i> , 2014 , 2, 1082-1089	8.1	29
163	Synthesis and analysis of abnormal wurtzite ZnSe nanowheels. <i>Journal of Applied Physics</i> , 2007 , 102, 044302	3.2	29
162	Improving the viewing angle properties of microcavity OLEDs by using dispersive gratings. <i>Optics Express</i> , 2007 , 15, 13288-94	3.3	29
161	Highly efficient planar perovskite solar cells achieved by simultaneous defect engineering and formation kinetic control. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23865-23874	13	28
160	Sequential Processing: Spontaneous Improvements in Film Quality and Interfacial Engineering for Efficient Perovskite Solar Cells. <i>Solar Rrl</i> , 2018 , 2, 1800027	7.1	27
159	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> , 2019 , 29, 1904684	15.6	27
158	Polarization-induced charge distribution at homogeneous zincblende/wurtzite heterostructural junctions in ZnSe nanobelts. <i>Advanced Materials</i> , 2012 , 24, 1328-32	24	27
157	Light harvesting improvement of organic solar cells with self-enhanced active layer designs. <i>Optics Express</i> , 2012 , 20, 8175-85	3.3	27
156	Triple-Crystal Zinc Selenide Nanobelts. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 9055-9059	3.8	27
155	Efficient and Rigorous Modeling of Light Emission in Planar Multilayer Organic Light-Emitting Diodes. <i>Journal of Display Technology</i> , 2007 , 3, 110-117		27
154	Low-Bandgap Organic Bulk-Heterojunction Enabled Efficient and Flexible Perovskite Solar Cells. <i>Advanced Materials</i> , 2021 , 33, e2105539	24	27
153	Tunable full-color emission of two-unit stacked organic light emitting diodes with dual-metal intermediate electrode. <i>Journal of Organometallic Chemistry</i> , 2009 , 694, 2712-2716	2.3	26
152	A Switchable Interconnecting Layer for High Performance Tandem Organic Solar Cell. <i>Advanced Energy Materials</i> , 2017 , 7, 1701164	21.8	25
151	A Simple method to prepare multi-walled carbon nanotube/ZnO nanoparticle composites. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 89, 525-528	2.6	25
150	Triple Interface Passivation Strategy-Enabled Efficient and Stable Inverted Perovskite Solar Cells. <i>Small Methods</i> , 2020 , 4, 2000478	12.8	25
149	Solution-Processed Ternary Oxides as Carrier Transport/Injection Layers in Optoelectronics. <i>Advanced Energy Materials</i> , 2020 , 10, 1900903	21.8	25
148	Device Physics of the Carrier Transporting Layer in Planar Perovskite Solar Cells. <i>Advanced Optical Materials</i> , 2019 , 7, 1900407	8.1	24

147	Strategies Toward Efficient Blue Perovskite Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2021 , 31, 2100516	15.6	24
146	Nanoparticle-induced resonant tunneling behaviors in small molecule organic light-emitting devices. <i>Applied Physics Letters</i> , 2009 , 94, 123303	3.4	23
145	Achieving High-Quality Sn-Pb Perovskite Films on Complementary Metal-Oxide-Semiconductor-Compatible Metal/Silicon Substrates for Efficient Imaging Array. <i>ACS Nano</i> , 2019 , 13, 11800-11808	16.7	22
144	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> , 2020 , 10, 1903013	21.8	22
143	Optical design of organic solar cell with hybrid plasmonic system. <i>Optics Express</i> , 2011 , 19, 15908-18	3.3	22
142	Improving efficiency roll-off in organic light emitting devices with a fluorescence-interlayer-phosphorescence emission architecture. <i>Applied Physics Letters</i> , 2009 , 95, 133304	3.4	22
141	Synthesis and luminescent properties of GdSrAl ₃ O ₇ :Tb ³⁺ phosphor under VUV/UV excitation. <i>Journal of Alloys and Compounds</i> , 2008 , 463, 302-305	5.7	22
140	Modifications of the exciton lifetime and internal quantum efficiency for organic light-emitting devices with a weak/strong microcavity. <i>Applied Physics Letters</i> , 2007 , 91, 221112	3.4	22
139	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> , 2016 , 21, 123-132	17.1	21
138	Magnetic field effects on the electroluminescence of organic light emitting devices: A tool to indicate the carrier mobility. <i>Applied Physics Letters</i> , 2010 , 97, 163302	3.4	21
137	Hybrid Nanoparticle/Organic Devices with Strong Resonant Tunneling Behaviors. <i>Advanced Functional Materials</i> , 2009 , 19, 2648-2653	15.6	21
136	Comprehensive investigation of absolute optical properties of organic materials. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 155109	3	21
135	Comprehensive analysis and optimal design of top-emitting organic light-emitting devices. <i>Journal of Applied Physics</i> , 2007 , 101, 113107	2.5	21
134	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> , 2015 , 2, 1500324	4.6	20
133	Magnetic field modulated exciton generation in organic semiconductors: An intermolecular quantum correlated effect. <i>Physical Review B</i> , 2010 , 82,	3.3	20
132	Systematic study of spontaneous emission in a two-dimensional arbitrary inhomogeneous environment. <i>Physical Review A</i> , 2011 , 83,	2.6	20
131	Tailoring the Interface in FAPbI ₃ Planar Perovskite Solar Cells by Imidazole-Graphene-Quantum-Dots. <i>Advanced Functional Materials</i> , 2021 , 31, 2101438	15.6	20
130	Efficient Interconnection in Perovskite Tandem Solar Cells. <i>Small Methods</i> , 2020 , 4, 2000093	12.8	20

129	Polarization Control by Using Anisotropic 3-D Chiral Structures. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 4687-4694	4.9	18
128	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> , 2012 , 99, 327-332	6.4	18
127	{113} Twinned ZnSe Bicrystal Nanobelts Filled with Twinings. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 4903-4907	3.8	18
126	Laser-induced etching of silicon. <i>Applied Physics A: Materials Science and Processing</i> , 1995 , 61, 45-50	2.6	18
125	Efficient and Stable All-Inorganic Perovskite Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 2000408	7.1	18
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