

# Tae-Woo Lee

## List of Publications by Citations

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286  
papers

19,724  
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64  
h-index

134  
g-index

307  
ext. papers

22,496  
ext. citations

11.6  
avg, IF

7.19  
L-index

#	Paper	IF	Citations
286	Overcoming the electroluminescence efficiency limitations of perovskite light-emitting diodes. <i>Science</i> , <b>2015</b> , 350, 1222-5	33.3	1963
285	Extremely efficient flexible organic light-emitting diodes with modified graphene anode. <i>Nature Photonics</i> , <b>2012</b> , 6, 105-110	33.9	1141
284	Multicolored organic/inorganic hybrid perovskite light-emitting diodes. <i>Advanced Materials</i> , <b>2015</b> , 27, 1248-54	24	938
283	A bioinspired flexible organic artificial afferent nerve. <i>Science</i> , <b>2018</b> , 360, 998-1003	33.3	637
282	Solution processable small molecules for organic light-emitting diodes. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 6392		506
281	Efficient Visible Quasi-2D Perovskite Light-Emitting Diodes. <i>Advanced Materials</i> , <b>2016</b> , 28, 7515-20	24	451
280	Planar CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Solar Cells with Constant 17.2% Average Power Conversion Efficiency Irrespective of the Scan Rate. <i>Advanced Materials</i> , <b>2015</b> , 27, 3424-30	24	401
279	Planar heterojunction organometal halide perovskite solar cells: roles of interfacial layers. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 12-30	35.4	396
278	Perovskites for Next-Generation Optical Sources. <i>Chemical Reviews</i> , <b>2019</b> , 119, 7444-7477	68.1	391
277	Metal halide perovskite light emitters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 11694-11702	11.5	381
276	Organic core-sheath nanowire artificial synapses with femtojoule energy consumption. <i>Science Advances</i> , <b>2016</b> , 2, e1501326	14.3	296
275	Boosting the power conversion efficiency of perovskite solar cells using self-organized polymeric hole extraction layers with high work function. <i>Advanced Materials</i> , <b>2014</b> , 26, 6461-6	24	295
274	Quantitative multispectral biosensing and 1D imaging using quasi-3D plasmonic crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 17143-8	11.5	293
273	Improving the Stability of Metal Halide Perovskite Materials and Light-Emitting Diodes. <i>Advanced Materials</i> , <b>2018</b> , 30, e1704587	24	276
272	Comprehensive defect suppression in perovskite nanocrystals for high-efficiency light-emitting diodes. <i>Nature Photonics</i> , <b>2021</b> , 15, 148-155	33.9	257
271	Large-scale organic nanowire lithography and electronics. <i>Nature Communications</i> , <b>2013</b> , 4, 1773	17.4	235
270	Highly Efficient Light-Emitting Diodes of Colloidal Metal-Halide Perovskite Nanocrystals beyond Quantum Size. <i>ACS Nano</i> , <b>2017</b> , 11, 6586-6593	16.7	233

269	Stretchable organic optoelectronic sensorimotor synapse. <i>Science Advances</i> , <b>2018</b> , 4, eaat7387	14.3	228
268	Electroluminescence from graphene quantum dots prepared by amidative cutting of tattered graphite. <i>Nano Letters</i> , <b>2014</b> , 14, 1306-11	11.5	226
267	Three-Dimensional Bulk Heterojunction Morphology for Achieving High Internal Quantum Efficiency in Polymer Solar Cells. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 2398-2406	15.6	226
266	Organometal Halide Perovskite Artificial Synapses. <i>Advanced Materials</i> , <b>2016</b> , 28, 5916-22	24	221
265	Growth, detachment and transfer of highly-ordered TiO <sub>2</sub> nanotube arrays: use in dye-sensitized solar cells. <i>Chemical Communications</i> , <b>2008</b> , 2867-9	5.8	209
264	Universal energy level tailoring of self-organized hole extraction layers in organic solar cells and organic/inorganic hybrid perovskite solar cells. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 932-939	35.4	192
263	Polyethylene Imine as an Ideal Interlayer for Highly Efficient Inverted Polymer Light-Emitting Diodes. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3808-3814	15.6	169
262	Ultrapure Green Light-Emitting Diodes Using Two-Dimensional Formamidinium Perovskites: Achieving Recommendation 2020 Color Coordinates. <i>Nano Letters</i> , <b>2017</b> , 17, 5277-5284	11.5	166
261	High-Efficiency Solution-Processed Inorganic Metal Halide Perovskite Light-Emitting Diodes. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700579	24	165
260	Subwavelength light bending by metal slit structures. <i>Optics Express</i> , <b>2005</b> , 13, 9652-9	3.3	165
259	Efficient Flexible Organic/Inorganic Hybrid Perovskite Light-Emitting Diodes Based on Graphene Anode. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605587	24	163
258	High efficiency perovskite light-emitting diodes of ligand-engineered colloidal formamidinium lead bromide nanoparticles. <i>Nano Energy</i> , <b>2017</b> , 38, 51-58	17.1	162
257	High-efficiency stacked white organic light-emitting diodes. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 043301	3.4	161
256	Characteristics of Solution-Processed Small-Molecule Organic Films and Light-Emitting Diodes Compared with their Vacuum-Deposited Counterparts. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 1625-1630	15.6	151
255	Graphenes Converted from Polymers. <i>Journal of Physical Chemistry Letters</i> , <b>2011</b> , 2, 493-497	6.4	140
254	Flexible Neuromorphic Electronics for Computing, Soft Robotics, and Neuroprosthetics. <i>Advanced Materials</i> , <b>2020</b> , 32, e1903558	24	140
253	Control of the Surface Composition of a Conducting-Polymer Complex Film to Tune the Work Function. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 2246-2252	15.6	137
252	Synthesis and nonvolatile memory behavior of redox-active conjugated polymer-containing ferrocene. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 9842-3	16.4	137

251	Synergetic electrode architecture for efficient graphene-based flexible organic light-emitting diodes. <i>Nature Communications</i> , <b>2016</b> , 7, 11791	17.4	134
250	A roll-to-roll welding process for planarized silver nanowire electrodes. <i>Nanoscale</i> , <b>2014</b> , 6, 11828-34	7.7	132
249	Synthesis of transparent mesoporous tungsten trioxide films with enhanced photoelectrochemical response: application to unassisted solar water splitting. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 1465	35.4	132
248	Graphene-based flexible electronic devices. <i>Materials Science and Engineering Reports</i> , <b>2017</b> , 118, 1-43	30.9	131
247	Highly Efficient p-i-n and Tandem Organic Light-Emitting Devices Using an Air-Stable and Low-Temperature-Evaporable Metal Azide as an n-Dopant. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 1797-1802	15.6	127
246	Highly Efficient, Simplified, Solution-Processed Thermally Activated Delayed-Fluorescence Organic Light-Emitting Diodes. <i>Advanced Materials</i> , <b>2016</b> , 28, 734-41	24	117
245	Organic Synapses for Neuromorphic Electronics: From Brain-Inspired Computing to Sensorimotor NerveNetronics. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 964-974	24.3	115
244	Retina-Inspired Carbon Nitride-Based Photonic Synapses for Selective Detection of UV Light. <i>Advanced Materials</i> , <b>2020</b> , 32, e1906899	24	113
243	Organic light-emitting diodes formed by soft contact lamination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 429-33	11.5	113
242	Flexible and transparent metallic grid electrodes prepared by evaporative assembly. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 12380-7	9.5	111
241	Recent progress in fabrication techniques of graphene nanoribbons. <i>Materials Horizons</i> , <b>2016</b> , 3, 186-207	14.4	100
240	Dramatic substituent effects on the photoluminescence of boron complexes of 2-(benzothiazol-2-yl)phenols. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 9886-93	4.8	99
239	Ultrahigh-efficiency solution-processed simplified small-molecule organic light-emitting diodes using universal host materials. <i>Science Advances</i> , <b>2016</b> , 2, e1601428	14.3	98
238	Soluble self-doped conducting polymer compositions with tunable work function as hole injection/extraction layers in organic optoelectronics. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 6274-7	16.4	86
237	Organic nanowire fabrication and device applications. <i>Small</i> , <b>2015</b> , 11, 45-62	11	85
236	High-Efficiency Polycrystalline Perovskite Light-Emitting Diodes Based on Mixed Cations. <i>ACS Nano</i> , <b>2018</b> , 12, 2883-2892	16.7	84
235	Molecularly controlled interfacial layer strategy toward highly efficient simple-structured organic light-emitting diodes. <i>Advanced Materials</i> , <b>2012</b> , 24, 1487-93	24	83
234	Roles of interlayers in efficient organic photovoltaic devices. <i>Macromolecular Rapid Communications</i> , <b>2010</b> , 31, 2095-108	4.8	83

233	Self-Doped Conducting Polymer as a Hole-Extraction Layer in Organic/Inorganic Hybrid Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1500678	4.6	80
232	Ultrathin organic solar cells with graphene doped by ferroelectric polarization. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 3299-304	9.5	79
231	Silver-Based Nanoparticles for Surface Plasmon Resonance in Organic Optoelectronics. <i>Particle and Particle Systems Characterization</i> , <b>2015</b> , 32, 164-175	3.1	79
230	Water-Soluble Polyfluorenes as an Electron Injecting Layer in PLEDs for Extremely High Quantum Efficiency. <i>Advanced Materials</i> , <b>2008</b> , 20, 1624-1629	24	78
229	Organic solar cells using CVD-grown graphene electrodes. <i>Nanotechnology</i> , <b>2014</b> , 25, 014012	3.4	74
228	Unravelling additive-based nanocrystal pinning for high efficiency organic-inorganic halide perovskite light-emitting diodes. <i>Nano Energy</i> , <b>2017</b> , 42, 157-165	17.1	73
227	Electrospun Organic Nanofiber Electronics and Photonics. <i>Macromolecular Materials and Engineering</i> , <b>2013</b> , 298, 475-486	3.9	71
226	Hole-injecting conducting-polymer compositions for highly efficient and stable organic light-emitting diodes. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 231106	3.4	71
225	Efficient Ruddlesden-Popper Perovskite Light-Emitting Diodes with Randomly Oriented Nanocrystals. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1901225	15.6	70
224	N-doped graphene field-effect transistors with enhanced electron mobility and air-stability. <i>Small</i> , <b>2014</b> , 10, 1999-2005	11	65
223	Extremely stable graphene electrodes doped with macromolecular acid. <i>Nature Communications</i> , <b>2018</b> , 9, 2037	17.4	65
222	Deformable Organic Nanowire Field-Effect Transistors. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704401	24	64
221	Ultrasensitive artificial synapse based on conjugated polyelectrolyte. <i>Nano Energy</i> , <b>2018</b> , 48, 575-581	17.1	64
220	Evidence of band bending observed by electroabsorption studies in polymer light emitting device with ionomer/Al or LiF/Al cathode. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 2152-2154	3.4	64
219	Strategies to Improve Luminescence Efficiency of Metal-Halide Perovskites and Light-Emitting Diodes. <i>Advanced Materials</i> , <b>2019</b> , 31, e1804595	24	64
218	Versatile p-Type Chemical Doping to Achieve Ideal Flexible Graphene Electrodes. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 6197-201	16.4	63
217	Versatile neuromorphic electronics by modulating synaptic decay of single organic synaptic transistor: From artificial neural networks to neuro-prosthetics. <i>Nano Energy</i> , <b>2019</b> , 65, 104035	17.1	62
216	AC field-induced polymer electroluminescence with single wall carbon nanotubes. <i>Nano Letters</i> , <b>2011</b> , 11, 966-72	11.5	62

215	Versatile Metal Nanowiring Platform for Large-Scale Nano- and Opto-Electronic Devices. <i>Advanced Materials</i> , <b>2016</b> , 28, 9109-9116	24	61
214	Seeing molecules by eye: surface plasmon resonance imaging at visible wavelengths with high spatial resolution and submonolayer sensitivity. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 5013-7	16.4	61
213	Organic light emitting board for dynamic interactive display. <i>Nature Communications</i> , <b>2017</b> , 8, 14964	17.4	60
212	Laminated Graphene Films for Flexible Transparent Thin Film Encapsulation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 14725-31	9.5	60
211	Hole-transporting interlayers for improving the device lifetime in the polymer light-emitting diodes. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 123505	3.4	60
210	Efficient Photoluminescence and Electroluminescence from Environmentally Stable Polymer/Clay Nanocomposites. <i>Chemistry of Materials</i> , <b>2001</b> , 13, 2217-2222	9.6	60
209	A 2D Titanium Carbide MXene Flexible Electrode for High-Efficiency Light-Emitting Diodes. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000919	24	59
208	Dimensionality Dependent Plasticity in Halide Perovskite Artificial Synapses for Neuromorphic Computing. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1900008	6.4	58
207	Efficient Perovskite Light-Emitting Diodes Using Polycrystalline CoreShell-Mimicked Nanograins. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1902017	15.6	57
206	Controlled TiO <sub>2</sub> Nanotube Arrays as an Active Material for High Power Energy-Storage Devices. <i>Journal of the Electrochemical Society</i> , <b>2009</b> , 156, A584	3.9	57
205	Polymer light-emitting devices using ionomers as an electron injecting and hole blocking layer. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 2128-2134	2.5	56
204	Hybrid Perovskites: Effective Crystal Growth for Optoelectronic Applications. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602596	21.8	54
203	Rapid fabrication of designable large-scale aligned graphene nanoribbons by electro-hydrodynamic nanowire lithography. <i>Advanced Materials</i> , <b>2014</b> , 26, 3459-64	24	54
202	High Color-Purity Green, Orange, and Red Light-Emitting Diodes Based on Chemically Functionalized Graphene Quantum Dots. <i>Scientific Reports</i> , <b>2016</b> , 6, 24205	4.9	53
201	Proton-transfer-induced 3D/2D hybrid perovskites suppress ion migration and reduce luminance overshoot. <i>Nature Communications</i> , <b>2020</b> , 11, 3378	17.4	51
200	Conducting Polymers as Anode Buffer Materials in Organic and Perovskite Optoelectronics. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1600512	8.1	51
199	Effect of electrical annealing on the luminous efficiency of thermally annealed polymer light-emitting diodes. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 3334-3336	3.4	50
198	Non-volatile ferroelectric memory with position-addressable polymer semiconducting nanowire. <i>Small</i> , <b>2014</b> , 10, 1976-84	11	49

197	Electrospun polymer/quantum dot composite fibers as down conversion phosphor layers for white light-emitting diodes. <i>RSC Advances</i> , <b>2014</b> , 4, 11585	3.7	48
196	Elucidating the crucial role of hole injection layer in degradation of organic light-emitting diodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 3117-25	9.5	48
195	N,S-Induced Electronic States of Carbon Nanodots Toward White Electroluminescence. <i>Advanced Optical Materials</i> , <b>2016</b> , 4, 276-284	8.1	47
194	Flexible Lamination Encapsulation. <i>Advanced Materials</i> , <b>2015</b> , 27, 4308-14	24	47
193	Individually position-addressable metal-nanofiber electrodes for large-area electronics. <i>Advanced Materials</i> , <b>2014</b> , 26, 8010-6	24	47
192	Device architecture for efficient, low-hysteresis flexible perovskite solar cells: Replacing TiO <sub>2</sub> with C60 assisted by polyethylenimine ethoxylated interfacial layers. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 161, 338-346	6.4	46
191	Universal high work function flexible anode for simplified ITO-free organic and perovskite light-emitting diodes with ultra-high efficiency. <i>NPG Asia Materials</i> , <b>2017</b> , 9, e411-e411	10.3	45
190	Boosting Efficiency in Polycrystalline Metal Halide Perovskite Light-Emitting Diodes. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1134-1149	20.1	44
189	Extremely bright full color alternating current electroluminescence of solution-blended fluorescent polymers with self-assembled block copolymer micelles. <i>ACS Nano</i> , <b>2013</b> , 7, 10809-17	16.7	44
188	Room-Temperature-Processable Wire-Templated Nanoelectrodes for Flexible and Transparent All-Wire Electronics. <i>ACS Nano</i> , <b>2017</b> , 11, 3681-3689	16.7	43
187	Energy level alignment of dipolar interface layer in organic and hybrid perovskite solar cells. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 2915-2924	7.1	42
186	Approaching ultimate flexible organic light-emitting diodes using a graphene anode. <i>NPG Asia Materials</i> , <b>2016</b> , 8, e303-e303	10.3	42
185	On-Fabrication Solid-State N-Doping of Graphene by an Electron-Transporting Metal Oxide Layer for Efficient Inverted Organic Solar Cells. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600172	21.8	42
184	High-efficiency polymer light-emitting devices using organic salts: A multilayer structure to improve light-emitting electrochemical cells. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 214-216	3.4	42
183	Flexible transparent electrodes for organic light-emitting diodes. <i>Journal of Information Display</i> , <b>2015</b> , 16, 71-84	4.1	41
182	Exciton and lattice dynamics in low-temperature processable CsPbBr <sub>3</sub> thin-films. <i>Materials Today Energy</i> , <b>2018</b> , 7, 199-207	7	41
181	Approaches toward efficient and stable electron extraction contact in organic photovoltaic cells: Inspiration from organic light-emitting diodes. <i>Electronic Materials Letters</i> , <b>2010</b> , 6, 41-50	2.9	41
180	Charge carrier recombination and ion migration in metal-halide perovskite nanoparticle films for efficient light-emitting diodes. <i>Nano Energy</i> , <b>2018</b> , 52, 329-335	17.1	40

- 179 High-efficiency polymer photovoltaic cells using a solution-processable insulating interfacial nanolayer: the role of the insulating nanolayer. *Journal of Materials Chemistry*, **2012**, 22, 25148 4.0
- 178 Polyaniline-based conducting polymer compositions with a high work function for hole-injection layers in organic light-emitting diodes: formation of ohmic contacts. *ChemSusChem*, **2011**, 4, 363-8 8.3 4.0
- 177 A High Performance Nondoped Blue Organic Light-Emitting Device Based on a Diphenylfluoranthene-Substituted Fluorene Derivative. *Journal of Physical Chemistry C*, **2009**, 113, 6227-6230 2.8 3.9
- 176 Fine Control of Perovskite Crystallization and Reducing Luminescence Quenching Using Self-Doped Polyaniline Hole Injection Layer for Efficient Perovskite Light-Emitting Diodes. *Advanced Functional Materials*, **2019**, 29, 1807535 15.6 3.9
- 175 Controllable n-type doping on CVD-grown single- and double-layer graphene mixture. *Advanced Materials*, **2015**, 27, 1619-23 2.4 3.8
- 174 Fabrication of high-quality single-crystal Cu thin films using radio-frequency sputtering. *Scientific Reports*, **2014**, 4, 6230 4.9 3.8
- 173 Synergetic Influences of Mixed-Host Emitting Layer Structures and Hole Injection Layers on Efficiency and Lifetime of Simplified Phosphorescent Organic Light-Emitting Diodes. *ACS Applied Materials & Interfaces*, **2016**, 8, 6152-63 9.5 3.5
- 172 Novel Hyperbranched Phthalocyanine as a Hole Injection Nanolayer in Organic Light-Emitting Diodes. *Macromolecular Rapid Communications*, **2007**, 28, 1657-1662 4.8 3.5
- 171 Highly Conductive Transparent and Flexible Electrodes Including Double-Stacked Thin Metal Films for Transparent Flexible Electronics. *ACS Applied Materials & Interfaces*, **2017**, 9, 16343-16350 9.5 3.4
- 170 Optimization of 3D Plasmonic Crystal Structures for Refractive Index Sensing. *Journal of Physical Chemistry C*, **2009**, 113, 10493-10499 3.8 3.4
- 169 Humidity controlled crystallization of thin CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> films for high performance perovskite solar cell. *Physica Status Solidi - Rapid Research Letters*, **2016**, 10, 381-387 2.5 3.4
- 168 Inverse opal tungsten trioxide films with mesoporous skeletons: synthesis and photoelectrochemical responses. *Chemical Communications*, **2012**, 48, 11939-41 5.8 3.3
- 167 Constructing inverse opal structured hematite photoanodes via electrochemical process and their application to photoelectrochemical water splitting. *Physical Chemistry Chemical Physics*, **2013**, 15, 11717-22 3.6 3.3
- 166 Study on a set of bis-cyclometalated Ir(III) complexes with a common ancillary ligand. *Dalton Transactions*, **2008**, 4732-41 4.3 3.3
- 165 Wearable Bioelectronics: Opportunities for Chemistry. *Accounts of Chemical Research*, **2019**, 52, 521-522 2.3 3.2
- 164 One-dimensional conjugated polymer nanomaterials for flexible and stretchable electronics. *Journal of Materials Chemistry C*, **2018**, 6, 3538-3550 7.1 3.2
- 163 White polymer light-emitting devices from ternary-polymer blend with concentration gradient. *Chemical Physics Letters*, **2005**, 403, 293-297 2.5 3.2
- 162 An easy route to red emitting homoleptic Ir(III) complex for highly efficient solution-processed phosphorescent organic light-emitting diodes. *Chemistry - A European Journal*, **2014**, 20, 8260-4 4.8 3.1



161	Role of ultrathin metal fluoride layer in organic photovoltaic cells: mechanism of efficiency and lifetime enhancement. <i>ChemSusChem</i> , <b>2014</b> , 7, 1125-32	8.3	31
160	Low-threshold blue amplified spontaneous emission in a statistical copolymer and its blend. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 424-426	3.4	31
159	White emission from a ternary polymer blend by incomplete cascade energy transfer. <i>Synthetic Metals</i> , <b>2001</b> , 122, 437-441	3.6	31
158	Highly efficient hybrid inorganic-organic light-emitting diodes by using air-stable metal oxides and a thick emitting layer. <i>ChemSusChem</i> , <b>2010</b> , 3, 1021-3	8.3	30
157	Simple, Inexpensive, and Rapid Approach to Fabricate Cross-Shaped Memristors Using an Inorganic-Nanowire-Digital-Alignment Technique and a One-Step Reduction Process. <i>Advanced Materials</i> , <b>2016</b> , 28, 527-32	24	30
156	Air-stable inverted structure of hybrid solar cells using a cesium-doped ZnO electron transport layer prepared by a sol-gel process. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 11802	13	29
155	Transparent flexible conductor of poly(methyl methacrylate) containing highly-dispersed multiwalled carbon nanotube. <i>Organic Electronics</i> , <b>2008</b> , 9, 1-13	3.5	29
154	Value-added Synthesis of Graphene: Recycling Industrial Carbon Waste into Electrodes for High-Performance Electronic Devices. <i>Scientific Reports</i> , <b>2015</b> , 5, 16710	4.9	28
153	Controlling surface enrichment in polymeric hole extraction layers to achieve high-efficiency organic photovoltaic cells. <i>ChemSusChem</i> , <b>2012</b> , 5, 2053-7	8.3	28
152	Ultrashort laser pulse doubling by metal-halide perovskite multiple quantum wells. <i>Nature Communications</i> , <b>2020</b> , 11, 3361	17.4	28
151	A soluble self-doped conducting polyaniline graft copolymer as a hole injection layer in polymer light-emitting diodes. <i>Polymer</i> , <b>2007</b> , 48, 7236-7240	3.9	27
150	Metal Halide Perovskites: From Crystal Formations to Light-Emitting-Diode Applications. <i>Small Methods</i> , <b>2018</b> , 2, 1800093	12.8	26
149	Three-Dimensional Nanostructured Indium-Tin-Oxide Electrodes for Enhanced Performance of Bulk Heterojunction Organic Solar Cells. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301566	21.8	26
148	Soft embossing of nanoscale optical and plasmonic structures in glass. <i>ACS Nano</i> , <b>2011</b> , 5, 5763-74	16.7	26
147	Surface smoothness and conductivity control of vapor-phase polymerized poly(3,4-ethylenedioxythiophene) thin coating for flexible optoelectronic applications. <i>Thin Solid Films</i> , <b>2008</b> , 516, 6020-6027	2.2	26
146	A stable blue host material for organic light-emitting diodes. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 251111	3.4	26
145	Direct-printed nanoscale metal-oxide-wire electronics. <i>Nano Energy</i> , <b>2019</b> , 58, 437-446	17.1	26
144	Extremely Stable Luminescent Crosslinked Perovskite Nanoparticles under Harsh Environments over 1.5 Years. <i>Advanced Materials</i> , <b>2021</b> , 33, e2005255	24	26

143	Structural and Thermal Disorder of Solution-Processed CHNHPbBr Hybrid Perovskite Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 10344-10348	9.5	25
142	Soluble Self-Doped Conducting Polymer Compositions with Tunable Work Function as Hole Injection/Extraction Layers in Organic Optoelectronics. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 6398-6401	3.6	25
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125	Effects of thermal treatment on organic-inorganic hybrid perovskite films and luminous efficiency of light-emitting diodes. <i>Current Applied Physics</i> , <b>2016</b> , 16, 1069-1074	2.6	20
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37	Solar Cells: Planar CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Solar Cells with Constant 17.2% Average Power Conversion Efficiency Irrespective of the Scan Rate (Adv. Mater. 22/2015). <i>Advanced Materials</i> , <b>2015</b> , 27, 3464-3464	24	2
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27	Opto-Electronic Devices: Versatile Metal Nanowiring Platform for Large-Scale Nano- and Opto-Electronic Devices (Adv. Mater. 41/2016). <i>Advanced Materials</i> , <b>2016</b> , 28, 9232-9232	24	1
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25	Short turn-on/off time linear voltage regulator with data detector for power-aware optical interconnect system <b>2012</b> ,		1
24	Comparison of long- and short-wavelength optical transmitters for optical PCB applications <b>2009</b> ,		1
23	Effect of Thermal Annealing on the Charge Carrier Mobility in a Polymer Electroluminescent Device. <i>Molecular Crystals and Liquid Crystals</i> , <b>2006</b> , 462, 241-248	0.5	1
22	Use of a Single Anionic Conductor as a Hole-Injecting Material for Polymer Light-Emitting Diodes. <i>Molecular Crystals and Liquid Crystals</i> , <b>2001</b> , 371, 207-210		1
21	Improved Quantum Efficiency by Overneutralization of Ionomers Used in Polymer Light-Emitting Diodes. <i>Molecular Crystals and Liquid Crystals</i> , <b>2000</b> , 349, 455-458		1
20	Supra-Binary Polarization in a Ferroelectric Nanowire. <i>Advanced Materials</i> , <b>2021</b> , 33, e2101981	24	1
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11	B12-O-24In-situobservation of temperature dependent nanomorphology-performance relations in emitting layer of OLEDs by TEM. <i>Microscopy (Oxford, England)</i> , <b>2015</b> , 64, i30.2-i30	1.3	
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