Tae-Woo Lee

List of Publications by Year in Descending Order

286 papers	19,724 citations	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	Electroplated core-shell nanowire network electrodes for highly efficient organic light-emitting diodes.. *Nano Convergence*, **2022**, 9, 1	9.2	4
285	Mixed Solvent Engineering for Morphology Optimization of the Electron Transport Layer in Perovskite Photovoltaics. *ACS Applied Energy Materials*, **2022**, 5, 387-396	6.1	1
284	Organic Artificial Nerve Electronics **2022**, 413-452		
283	Organic electronic synapses with low energy consumption. *Joule*, **2021**, 5, 794-810	27.8	15
282	Organic synaptic transistors for flexible and stretchable artificial sensory nerves. *MRS Bulletin*, **2021**, 46, 321-329	3.2	7
281	Tailoring the Structure of Low-Dimensional Halide Perovskite through a Room Temperature Solution Process: Role of Ligands.. *Small Methods*, **2021**, 5, e2100054	12.8	2
280	Supra-Binary Polarization in a Ferroelectric Nanowire. *Advanced Materials*, **2021**, 33, e2101981	24	1
279	Recent Progress in Development of Wearable Pressure Sensors Derived from Biological Materials. *Advanced Healthcare Materials*, **2021**, 10, e2100460	10.1	5
278	Energy Spotlight. *ACS Energy Letters*, **2021**, 6, 2635-2637	20.1	
277	Synergistic Molecular Engineering of Hole-Injecting Conducting Polymers Overcomes Luminescence Quenching in Perovskite Light-Emitting Diodes. *Advanced Optical Materials*, **2021**, 9, 2100646	8.1	4
276	Ligand-Assisted Sulfide Surface Treatment of CsPbI3 Perovskite Quantum Dots to Increase Photoluminescence and Recovery. *ACS Photonics*, **2021**, 8, 1979-1987	6.3	10
275	Synthesis and characterization of homoleptic triply cyclometalated iridium(III) complex containing 6-(pyridin-2-yl)isoquinoline moiety for solution-processable orange-phosphorescent organic light-emitting diodes. *Dyes and Pigments*, **2021**, 185, 108880	4.6	5
274	Extremely Stable Luminescent Crosslinked Perovskite Nanoparticles under Harsh Environments over 1.5 Years. *Advanced Materials*, **2021**, 33, e2005255	24	26
273	Understanding the Synergistic Effect of Device Architecture Design toward Efficient Perovskite Light-Emitting Diodes Using Interfacial Layer Engineering. *Advanced Materials Interfaces*, **2021**, 8, 2001712	4.6	12
272	Abnormal spatial heterogeneity governing the charge-carrier mechanism in efficient Ruddlesden–Popper perovskite solar cells. *Energy and Environmental Science*, **2021**, 14, 4915-4925	35.4	7
271	Comprehensive defect suppression in perovskite nanocrystals for high-efficiency light-emitting diodes. *Nature Photonics*, **2021**, 15, 148-155	33.9	257
270	Chiral polymer hosts for circularly polarized electroluminescence devices. *Chemical Science*, **2021**, 12, 8668-8681	9.4	7

269	Hydrogen-bonded cation-composition-engineered color-stable blue PeLEDs. *Science Bulletin*, **2021**, 66, 2159-2161	10.6	
268	Organic and perovskite memristors for neuromorphic computing. *Organic Electronics*, **2021**, 98, 106301	3.5	12
267	Perovskite Nanoparticles: Extremely Stable Luminescent Crosslinked Perovskite Nanoparticles under Harsh Environments over 1.5 Years (Adv. Mater. 3/2021). *Advanced Materials*, **2021**, 33, 2170017	24	
266	Engineering electrodes and metal halide perovskite materials for flexible/stretchable perovskite solar cells and light-emitting diodes. *Energy and Environmental Science*, **2021**, 14, 2009-2035	35.4	16
265	Chemically Robust Indium Tin Oxide/Graphene Anode for Efficient Perovskite Light-Emitting Diodes. *ACS Applied Materials & Interfaces*, **2021**, 13, 9074-9080	9.5	1
264	Production of C, N Alternating 2D Materials Using Covalent Modification and Their Electroluminescence Performance. *Small Science*, **2021**, 1, 2000042		4
263	Effect of Interfacial Layers on the Device Lifetime of Perovskite Solar Cells. *Small Methods*, **2020**, 4, 2000068	12.8	18
262	All-Solution-Processed BiVO4/TiO2 Photoanode with NiCo2O4 Nanofiber Cocatalyst for Enhanced Solar Water Oxidation. *ACS Applied Energy Materials*, **2020**, 3, 5646-5656	6.1	11
261	Characterizing the Efficiency of Perovskite Solar Cells and Light-Emitting Diodes. *Joule*, **2020**, 4, 1206-1235	39.8	24
260	Photonic Synapses: Retina-Inspired Carbon Nitride-Based Photonic Synapses for Selective Detection of UV Light (Adv. Mater. 11/2020). *Advanced Materials*, **2020**, 32, 2070080	24	9
259	Proton-transfer-induced 3D/2D hybrid perovskites suppress ion migration and reduce luminance overshoot. *Nature Communications*, **2020**, 11, 3378	17.4	51
258	Enhancing photoluminescence quantum efficiency of metal halide perovskites by examining luminescence-limiting factors. *APL Materials*, **2020**, 8, 020904	5.7	13
257	Retina-Inspired Carbon Nitride-Based Photonic Synapses for Selective Detection of UV Light. *Advanced Materials*, **2020**, 32, e1906899	24	113
256	A 2D Titanium Carbide MXene Flexible Electrode for High-Efficiency Light-Emitting Diodes. *Advanced Materials*, **2020**, 32, e2000919	24	59
255	Performance analysis of magnetic gear with Halbach array for high power and high speed. *International Journal of Applied Electromagnetics and Mechanics*, **2020**, 64, 959-967	0.4	
254	Electroluminescence of Perovskite Nanocrystals with Ligand Engineering. *Trends in Chemistry*, **2020**, 2, 837-849	14.8	10
253	Flexible Neuromorphic Electronics for Computing, Soft Robotics, and Neuroprosthetics. *Advanced Materials*, **2020**, 32, e1903558	24	140
252	Importance of Interfacial Band Structure between the Substrate and Mn3O4 Nanocatalysts during Electrochemical Water Oxidation. *ACS Catalysis*, **2020**, 10, 1237-1245	13.1	14

251	Ultrashort laser pulse doubling by metal-halide perovskite multiple quantum wells. *Nature Communications*, **2020**, 11, 3361	17.4	28
250	Suppressing π-stacking interactions for enhanced solid-state emission of flat aromatic molecules via edge functionalization with picket-fence-type groups. *Journal of Materials Chemistry C*, **2020**, 8, 17289-17296	7.1	4
249	Controllable deposition of organic metal halide perovskite films with wafer-scale uniformity by single source flash evaporation. *Scientific Reports*, **2020**, 10, 18781	4.9	4
248	Electroplated Silver-Nickel Core-Shell Nanowire Network Electrodes for Highly Efficient Perovskite Nanoparticle Light-Emitting Diodes. *ACS Applied Materials & Interfaces*, **2020**, 12, 39479-39486	9.5	9
247	Water Passivation of Perovskite Nanocrystals Enables Air-Stable Intrinsically Stretchable Color-Conversion Layers for Stretchable Displays. *Advanced Materials*, **2020**, 32, e2001989	24	25
246	Achieving Microstructure-Controlled Synaptic Plasticity and Long-Term Retention in Ion-Gel-Gated Organic Synaptic Transistors. *Advanced Intelligent Systems*, **2020**, 2, 2000012	6	19
245	Aromatic nonpolar organogels for efficient and stable perovskite green emitters. *Nature Communications*, **2020**, 11, 4638	17.4	15
244	Molecular-Scale Strategies to Achieve High Efficiency and Low Efficiency Roll-off in Simplified Solution-Processed Organic Light-Emitting Diodes. *Advanced Functional Materials*, **2020**, 30, 2005292	15.6	10
243	Production of Metal-Free C, N Alternating Nanoplatelets and Their In Vivo Fluorescence Imaging Performance without Labeling. *Advanced Functional Materials*, **2020**, 30, 2004800	15.6	2
242	Perovskite Emitters as a Platform Material for Down-Conversion Applications. *Advanced Materials Technologies*, **2020**, 5, 2000091	6.8	21
241	Versatile neuromorphic electronics by modulating synaptic decay of single organic synaptic transistor: From artificial neural networks to neuro-prosthetics. *Nano Energy*, **2019**, 65, 104035	17.1	62
240	Low-dimensional iodide perovskite nanocrystals enable efficient red emission. *Nanoscale*, **2019**, 11, 12793-12797	7.7	11
239	P-110: Efficient Quantum Dot Light-Emitting Diodes by Reducing Oxygen Vacancies of ZnO Nanoparticles with Recycling Process. *Digest of Technical Papers SID International Symposium*, **2019**, 50, 1666-1668	0.5	1
238	Boosting Efficiency in Polycrystalline Metal Halide Perovskite Light-Emitting Diodes. *ACS Energy Letters*, **2019**, 4, 1134-1149	20.1	44
237	Perovskites for Next-Generation Optical Sources. *Chemical Reviews*, **2019**, 119, 7444-7477	68.1	391
236	Organic Synapses for Neuromorphic Electronics: From Brain-Inspired Computing to Sensorimotor Nervetronics. *Accounts of Chemical Research*, **2019**, 52, 964-974	24.3	115
235	Wearable Bioelectronics: Opportunities for Chemistry. *Accounts of Chemical Research*, **2019**, 52, 521-522	24.3	32
234	Value-Added Recycling of Inexpensive Carbon Sources to Graphene and Carbon Nanotubes. *Advanced Sustainable Systems*, **2019**, 3, 1800016	5.9	11

233	Dimensionality Dependent Plasticity in Halide Perovskite Artificial Synapses for Neuromorphic Computing. *Advanced Electronic Materials*, **2019**, 5, 1900008	6.4	58
232	Ideal conducting polymer anode for perovskite light-emitting diodes by molecular interaction decoupling. *Nano Energy*, **2019**, 60, 324-331	17.1	20
231	Flexible artificial synesthesia electronics with sound-synchronized electroluminescence. *Nano Energy*, **2019**, 59, 773-783	17.1	12
230	Efficient Ruddlesden–Popper Perovskite Light-Emitting Diodes with Randomly Oriented Nanocrystals. *Advanced Functional Materials*, **2019**, 29, 1901225	15.6	70
229	Efficient Perovskite Light-Emitting Diodes Using Polycrystalline Core–Shell-Mimicked Nanograins. *Advanced Functional Materials*, **2019**, 29, 1902017	15.6	57
228	Degradation Protection of Color Dyes Encapsulated by Graphene Barrier Films. *Chemistry of Materials*, **2019**, 31, 7173-7177	9.6	9
227	Quasi Two-Dimensional Perovskites: Efficient Ruddlesden–Popper Perovskite Light-Emitting Diodes with Randomly Oriented Nanocrystals (Adv. Funct. Mater. 27/2019). *Advanced Functional Materials*, **2019**, 29, 1970187	15.6	5
226	Perovskite LEDs: Strategies to Improve Luminescence Efficiency of Metal-Halide Perovskites and Light-Emitting Diodes (Adv. Mater. 47/2019). *Advanced Materials*, **2019**, 31, 1970335	24	3
225	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	39
224	Strategies to Improve Luminescence Efficiency of Metal-Halide Perovskites and Light-Emitting Diodes. *Advanced Materials*, **2019**, 31, e1804595	24	64
223	Strategies to Improve Electrical and Electronic Properties of PEDOT:PSS for Organic and Perovskite Optoelectronic Devices. *Macromolecular Research*, **2019**, 27, 2-9	1.9	12
222	Direct-printed nanoscale metal-oxide-wire electronics. *Nano Energy*, **2019**, 58, 437-446	17.1	26
221	High-Efficiency Polycrystalline Perovskite Light-Emitting Diodes Based on Mixed Cations. *ACS Nano*, **2018**, 12, 2883-2892	16.7	84
220	Energy level alignment of dipolar interface layer in organic and hybrid perovskite solar cells. *Journal of Materials Chemistry C*, **2018**, 6, 2915-2924	7.1	42
219	Influence of A-site cation on the thermal stability of metal halide perovskite polycrystalline films. *Journal of Information Display*, **2018**, 19, 53-60	4.1	14
218	Improving the Stability of Metal Halide Perovskite Materials and Light-Emitting Diodes. *Advanced Materials*, **2018**, 30, e1704587	24	276
217	Solution-Processed n-Type Graphene Doping for Cathode in Inverted Polymer Light-Emitting Diodes. *ACS Applied Materials & Interfaces*, **2018**, 10, 4874-4881	9.5	20
216	Deformable Organic Nanowire Field-Effect Transistors. *Advanced Materials*, **2018**, 30, 1704401	24	64

215	Ultrasensitive artificial synapse based on conjugated polyelectrolyte. *Nano Energy*, **2018**, 48, 575-581	17.1	64
214	Ultra-High-Resolution Organic Light-Emitting Diodes with Color Conversion Electrode. *ACS Photonics*, **2018**, 5, 1891-1897	6.3	8
213	One-dimensional conjugated polymer nanomaterials for flexible and stretchable electronics. *Journal of Materials Chemistry C*, **2018**, 6, 3538-3550	7.1	32
212	Exciton and lattice dynamics in low-temperature processable CsPbBr3 thin-films. *Materials Today Energy*, **2018**, 7, 199-207	7	41
211	Metal Halide Perovskites: From Crystal Formations to Light-Emitting-Diode Applications. *Small Methods*, **2018**, 2, 1800093	12.8	26
210	Nanometric Plasmonic Rulers Based on Orthogonal Plasmonic Gap Modes in Metal Nanoblocks. *Applied Sciences (Switzerland)*, **2018**, 8, 386	2.6	1
209	Charge carrier recombination and ion migration in metal-halide perovskite nanoparticle films for efficient light-emitting diodes. *Nano Energy*, **2018**, 52, 329-335	17.1	40
208	Stretchable organic optoelectronic sensorimotor synapse. *Science Advances*, **2018**, 4, eaat7387	14.3	228
207	Increased luminescent efficiency of perovskite light emitting diodes based on modified two-step deposition method providing gradient concentration. *APL Materials*, **2018**, 6, 111101	5.7	3
206	Highly Luminescent Organic Nanorods from Air Oxidation of para-Substituted Anilines for Freestanding Deep-Red Color Filters. *Advanced Optical Materials*, **2018**, 6, 1800577	8.1	2
205	Nanosinusoidal Surface Zinc Oxide for Optical Out-coupling of Inverted Organic Light-Emitting Diodes. *ACS Photonics*, **2018**, 5, 4061-4067	6.3	14
204	Extremely stable graphene electrodes doped with macromolecular acid. *Nature Communications*, **2018**, 9, 2037	17.4	65
203	Color Purifying Optical Nanothin Film for Three Primary Colors in Optoelectronics. *ACS Photonics*, **2018**, 5, 3322-3330	6.3	13
202	A bioinspired flexible organic artificial afferent nerve. *Science*, **2018**, 360, 998-1003	33.3	637
201	Efficient Flexible Organic/Inorganic Hybrid Perovskite Light-Emitting Diodes Based on Graphene Anode. *Advanced Materials*, **2017**, 29, 1605587	24	163
200	Large-Scale Highly Aligned Nanowire Printing. *Macromolecular Materials and Engineering*, **2017**, 302, 1600507	3.9	19
199	Organic light emitting board for dynamic interactive display. *Nature Communications*, **2017**, 8, 14964	17.4	60
198	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	34

197	Graphene-based flexible electronic devices. *Materials Science and Engineering Reports*, **2017**, 118, 1-43	30.9	131
196	Improvement of both efficiency and stability in organic photovoltaics by using water-soluble anionic conjugated polyelectrolyte interlayer. *Materials Today Energy*, **2017**, 5, 66-71	7	8
195	P-127: Angle Insensitive Flexible Color Filter Electrodes. *Digest of Technical Papers SID International Symposium*, **2017**, 48, 1738-1741	0.5	2
194	Highly Efficient Light-Emitting Diodes of Colloidal Metal-Halide Perovskite Nanocrystals beyond Quantum Size. *ACS Nano*, **2017**, 11, 6586-6593	16.7	233
193	Hybrid Perovskites: Effective Crystal Growth for Optoelectronic Applications. *Advanced Energy Materials*, **2017**, 7, 1602596	21.8	54
192	High-Efficiency Solution-Processed Inorganic Metal Halide Perovskite Light-Emitting Diodes. *Advanced Materials*, **2017**, 29, 1700579	24	165
191	Structural and Thermal Disorder of Solution-Processed CHNHPbBr Hybrid Perovskite Thin Films. *ACS Applied Materials & Interfaces*, **2017**, 9, 10344-10348	9.5	25
190	Room-Temperature-Processable Wire-Templated Nanoelectrodes for Flexible and Transparent All-Wire Electronics. *ACS Nano*, **2017**, 11, 3681-3689	16.7	43
189	Direct growth of graphene-dielectric bi-layer structure on device substrates from Si-based polymer. *2D Materials*, **2017**, 4, 024001	5.9	10
188	Device architecture for efficient, low-hysteresis flexible perovskite solar cells: Replacing TiO2 with C60 assisted by polyethylenimine ethoxylated interfacial layers. *Solar Energy Materials and Solar Cells*, **2017**, 161, 338-346	6.4	46
187	Large-scale metal nanoelectrode arrays based on printed nanowire lithography for nanowire complementary inverters. *Nanoscale*, **2017**, 9, 15766-15772	7.7	12
186	Unravelling additive-based nanocrystal pinning for high efficiency organic-inorganic halide perovskite light-emitting diodes. *Nano Energy*, **2017**, 42, 157-165	17.1	73
185	A Metal-Insulator-Metal Deep Subwavelength Cavity Based on Cutoff Frequency Modulation. *Applied Sciences (Switzerland)*, **2017**, 7, 86	2.6	3
184	Refractive index sensing and surface-enhanced Raman spectroscopy using silver-gold layered bimetallic plasmonic crystals. *Beilstein Journal of Nanotechnology*, **2017**, 8, 2492-2503	3	3
183	A correlation between small-molecule dependent nanomorphology and device performance of organic light-emitting diodes with ternary blend emitting layers. *Journal of Materials Chemistry C*, **2017**, 5, 9761-9769	7.1	9
182	Polaronic Charge Carrier-Lattice Interactions in Lead Halide Perovskites. *ChemSusChem*, **2017**, 10, 3705-3711	8.1	12
181	Universal high work function flexible anode for simplified ITO-free organic and perovskite light-emitting diodes with ultra-high efficiency. *NPG Asia Materials*, **2017**, 9, e411-e411	10.3	45
180	Ultrapure Green Light-Emitting Diodes Using Two-Dimensional Formamidinium Perovskites: Achieving Recommendation 2020 Color Coordinates. *Nano Letters*, **2017**, 17, 5277-5284	11.5	166

179	Thermal effect analysis on crosstalk and performance of optoelectronic transmitter modules for optical interconnects. *Optical and Quantum Electronics*, **2017**, 49, 1	2.4	
178	Interface-Engineered Charge-Transport Properties in Benzenedithiol Molecular Electronic Junctions via Chemically p-Doped Graphene Electrodes. *ACS Applied Materials & Interfaces*, **2017**, 9, 42043-42049	9.5	7
177	Design of full-duplex and multifunction bidirectional CMOS transceiver for optical interconnect applications. *Optical and Quantum Electronics*, **2017**, 49, 1	2.4	
176	Conducting Polymers as Anode Buffer Materials in Organic and Perovskite Optoelectronics. *Advanced Optical Materials*, **2017**, 5, 1600512	8.1	51
175	Solution-processed electron-only tandem polymer light-emitting diodes for broad wavelength light emission. *Journal of Materials Chemistry C*, **2017**, 5, 110-117	7.1	15
174	High efficiency perovskite light-emitting diodes of ligand-engineered colloidal formamidinium lead bromide nanoparticles. *Nano Energy*, **2017**, 38, 51-58	17.1	162
173	Planar heterojunction organometal halide perovskite solar cells: roles of interfacial layers. *Energy and Environmental Science*, **2016**, 9, 12-30	35.4	396
172	Versatile Metal Nanowiring Platform for Large-Scale Nano- and Opto-Electronic Devices. *Advanced Materials*, **2016**, 28, 9109-9116	24	61
171	Approaching ultimate flexible organic light-emitting diodes using a graphene anode. *NPG Asia Materials*, **2016**, 8, e303-e303	10.3	42
170	Artificial Synapses: Organometal Halide Perovskite Artificial Synapses (Adv. Mater. 28/2016). *Advanced Materials*, **2016**, 28, 6019	24	3
169	High Color-Purity Green, Orange, and Red Light-Emitting Diodes Based on Chemically Functionalized Graphene Quantum Dots. *Scientific Reports*, **2016**, 6, 24205	4.9	53
168	Synergetic electrode architecture for efficient graphene-based flexible organic light-emitting diodes. *Nature Communications*, **2016**, 7, 11791	17.4	134
167	Magnetic domains in H-mediated Zn0.9Co0.1O microdisk arrays. *RSC Advances*, **2016**, 6, 57375-57379	3.7	1
166	Ultrahigh-efficiency solution-processed simplified small-molecule organic light-emitting diodes using universal host materials. *Science Advances*, **2016**, 2, e1601428	14.3	98
165	Opto-Electronic Devices: Versatile Metal Nanowiring Platform for Large-Scale Nano- and Opto-Electronic Devices (Adv. Mater. 41/2016). *Advanced Materials*, **2016**, 28, 9232-9232	24	1
164	Organic core-sheath nanowire artificial synapses with femtojoule energy consumption. *Science Advances*, **2016**, 2, e1501326	14.3	296
163	OLEDs: Scalable Noninvasive Organic Fiber Lithography for Large-Area Optoelectronics (Advanced Optical Materials 6/2016). *Advanced Optical Materials*, **2016**, 4, 974-974	8.1	0
162	Highly Efficient, Simplified, Solution-Processed Thermally Activated Delayed-Fluorescence Organic Light-Emitting Diodes. *Advanced Materials*, **2016**, 28, 734-41	24	117

161	Self-Doped Conducting Polymer as a Hole-Extraction Layer in Organic–Inorganic Hybrid Perovskite Solar Cells. *Advanced Materials Interfaces*, **2016**, 3, 1500678	4.6	80
160	N,S-Induced Electronic States of Carbon Nanodots Toward White Electroluminescence. *Advanced Optical Materials*, **2016**, 4, 276-284	8.1	47
159	Effects of thermal treatment on organic-inorganic hybrid perovskite films and luminous efficiency of light-emitting diodes. *Current Applied Physics*, **2016**, 16, 1069-1074	2.6	20
158	Laminated Graphene Films for Flexible Transparent Thin Film Encapsulation. *ACS Applied Materials & Interfaces*, **2016**, 8, 14725-31	9.5	60
157	Organometal Halide Perovskite Artificial Synapses. *Advanced Materials*, **2016**, 28, 5916-22	24	221
156	On-Fabrication Solid-State N-Doping of Graphene by an Electron-Transporting Metal Oxide Layer for Efficient Inverted Organic Solar Cells. *Advanced Energy Materials*, **2016**, 6, 1600172	21.8	42
155	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	35
154	Universal energy level tailoring of self-organized hole extraction layers in organic solar cells and organic–inorganic hybrid perovskite solar cells. *Energy and Environmental Science*, **2016**, 9, 932-939	35.4	192
153	Recent progress in fabrication techniques of graphene nanoribbons. *Materials Horizons*, **2016**, 3, 186-207	14.4	100
152	Design and analysis of a multichannel transceiver for high-speed optical interconnects. *Optical and Quantum Electronics*, **2016**, 48, 1	2.4	
151	Low cross-talk, deep subwavelength plasmonic metal/insulator/metal waveguide intersections with broadband tunability. *Photonics Research*, **2016**, 4, 272	6	4
150	Efficient Visible Quasi-2D Perovskite Light-Emitting Diodes. *Advanced Materials*, **2016**, 28, 7515-20	24	451
149	Humidity controlled crystallization of thin CH3NH3PbI3 films for high performance perovskite solar cell. *Physica Status Solidi - Rapid Research Letters*, **2016**, 10, 381-387	2.5	34
148	Versatile p-Type Chemical Doping to Achieve Ideal Flexible Graphene Electrodes. *Angewandte Chemie - International Edition*, **2016**, 55, 6197-201	16.4	63
147	Simple, Inexpensive, and Rapid Approach to Fabricate Cross-Shaped Memristors Using an Inorganic-Nanowire-Digital-Alignment Technique and a One-Step Reduction Process. *Advanced Materials*, **2016**, 28, 527-32	24	30
146	Scalable Noninvasive Organic Fiber Lithography for Large-Area Optoelectronics. *Advanced Optical Materials*, **2016**, 4, 967-972	8.1	11
145	Versatile p-Type Chemical Doping to Achieve Ideal Flexible Graphene Electrodes. *Angewandte Chemie*, **2016**, 128, 6305-6309	3.6	7
144	Nanowires: Simple, Inexpensive, and Rapid Approach to Fabricate Cross-Shaped Memristors Using an Inorganic-Nanowire-Digital-Alignment Technique and a One-Step Reduction Process (Adv. Mater. 3/2016). *Advanced Materials*, **2016**, 28, 591-591	24	

143	Controlled surface oxidation of multi-layered graphene anode to increase hole injection efficiency in organic electronic devices. *2D Materials*, **2016**, 3, 014003	5.9	9
142	A field-induced hole generation layer for high performance alternating current polymer electroluminescence and its application to extremely flexible devices. *Journal of Materials Chemistry C*, **2016**, 4, 4434-4441	7.1	12
141	Optical transceiver with in-chip temperature compensation module design and fabrication. *Optical and Quantum Electronics*, **2016**, 48, 1	2.4	
140	Perovskite Light-Emitting Diodes: Efficient Visible Quasi-2D Perovskite Light-Emitting Diodes (Adv. Mater. 34/2016). *Advanced Materials*, **2016**, 28, 7550-7550	24	8
139	Metal halide perovskite light emitters. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 11694-11702	11.5	381
138	Improvement of work function and hole injection efficiency of graphene anode using CHF 3 plasma treatment. *2D Materials*, **2015**, 2, 014002	5.9	16
137	Study on the formation of magnetic nanoclusters and change in spin ordering in Co-doped ZnO using magnetic susceptibility. *RSC Advances*, **2015**, 5, 65840-65846	3.7	3
136	Temperature-dependent nanomorphology-performance relations in binary iridium complex blend films for organic light emitting diodes. *Physical Chemistry Chemical Physics*, **2015**, 17, 21555-63	3.6	5
135	Planar CH3NH3PbI3 Perovskite Solar Cells with Constant 17.2% Average Power Conversion Efficiency Irrespective of the Scan Rate. *Advanced Materials*, **2015**, 27, 3424-30	24	401
134	Spatial mapping of refractive index based on a plasmonic tapered channel waveguide. *Optics Express*, **2015**, 23, 5907-14	3.3	4
133	Flexible transparent electrodes for organic light-emitting diodes. *Journal of Information Display*, **2015**, 16, 71-84	4.1	41
132	Flexible organic light-emitting diodes for solid-state lighting. *Journal of Photonics for Energy*, **2015**, 5, 053599	1.2	23
131	Synergistic Effects of Doping and Thermal Treatment on Organic Semiconducting Nanowires. *ACS Applied Materials & Interfaces*, **2015**, 7, 18909-14	9.5	14
130	Bimolecular crystals with an intercalated structure improve poly(p-phenylenevinylene)-based organic photovoltaic cells. *ChemSusChem*, **2015**, 8, 337-44	8.3	10
129	Multicolored organic/inorganic hybrid perovskite light-emitting diodes. *Advanced Materials*, **2015**, 27, 1248-54	24	938
128	Organic nanowire fabrication and device applications. *Small*, **2015**, 11, 45-62	11	85
127	Solar Cells: Planar CH3NH3PbI3 Perovskite Solar Cells with Constant 17.2% Average Power Conversion Efficiency Irrespective of the Scan Rate (Adv. Mater. 22/2015). *Advanced Materials*, **2015** , 27, 3464-3464	24	2
126	Value-added Synthesis of Graphene: Recycling Industrial Carbon Waste into Electrodes for High-Performance Electronic Devices. *Scientific Reports*, **2015**, 5, 16710	4.9	28

125	Flexible Lamination Encapsulation. *Advanced Materials*, **2015**, 27, 4308-14	24	47
124	Elucidating the Role of Conjugated Polyelectrolyte Interlayers for High-Efficiency Organic Photovoltaics. *ChemSusChem*, **2015**, 8, 3062-8	8.3	22
123	Silver-Based Nanoparticles for Surface Plasmon Resonance in Organic Optoelectronics. *Particle and Particle Systems Characterization*, **2015**, 32, 164-175	3.1	79
122	Dual-Function Metal□Insulator□Metal Plasmonic Optical Filter. *IEEE Photonics Journal*, **2015**, 7, 1-8	1.8	8
121	B12-O-24In-situobservation of temperature dependent nanomorphology-performance relations in emitting layer of OLEDs by TEM. *Microscopy (Oxford, England)*, **2015**, 64, i30.2-i30	1.3	
120	Flexible Encapsulation: Flexible Lamination Encapsulation (Adv. Mater. 29/2015). *Advanced Materials*, **2015**, 27, 4387-4387	24	2
119	Overcoming the electroluminescence efficiency limitations of perovskite light-emitting diodes. *Science*, **2015**, 350, 1222-5	33.3	1963
118	Light-Emitting Diodes: Multicolored Organic/Inorganic Hybrid Perovskite Light-Emitting Diodes (Adv. Mater. 7/2015). *Advanced Materials*, **2015**, 27, 1303-1303	24	2
117	Elucidating the crucial role of hole injection layer in degradation of organic light-emitting diodes. *ACS Applied Materials & Interfaces*, **2015**, 7, 3117-25	9.5	48
116	Controllable n-type doping on CVD-grown single- and double-layer graphene mixture. *Advanced Materials*, **2015**, 27, 1619-23	24	38
115	Polyethylene Imine as an Ideal Interlayer for Highly Efficient Inverted Polymer Light-Emitting Diodes. *Advanced Functional Materials*, **2014**, 24, 3808-3814	15.6	169
114	Three-Dimensional Nanostructured Indium-Tin-Oxide Electrodes for Enhanced Performance of Bulk Heterojunction Organic Solar Cells. *Advanced Energy Materials*, **2014**, 4, 1301566	21.8	26
113	Sensitive Hydrogen Sensors Based on Gold□Palladium Double Nanoblock. *IEEE Photonics Technology Letters*, **2014**, 26, 2232-2235	2.2	4
112	A systematic identification of efficiency enrichment between thiazole and benzothiazole based yellow iridium(III) complexes. *Journal of Materials Chemistry C*, **2014**, 2, 9398-9405	7.1	19
111	An easy route to red emitting homoleptic IrIII complex for highly efficient solution-processed phosphorescent organic light-emitting diodes. *Chemistry - A European Journal*, **2014**, 20, 8260-4	4.8	31
110	Non-volatile ferroelectric memory with position-addressable polymer semiconducting nanowire. *Small*, **2014**, 10, 1976-84	11	49
109	Design of small-area transimpedance optical receiver module for optical interconnects **2014**,		3
108	Electrospun polymer/quantum dot composite fibers as down conversion phosphor layers for white light-emitting diodes. *RSC Advances*, **2014**, 4, 11585	3.7	48

107	Role of ultrathin metal fluoride layer in organic photovoltaic cells: mechanism of efficiency and lifetime enhancement. *ChemSusChem*, **2014**, 7, 1125-32	8.3	31
106	Boosting the power conversion efficiency of perovskite solar cells using self-organized polymeric hole extraction layers with high work function. *Advanced Materials*, **2014**, 26, 6461-6	24	295
105	Flexible and transparent metallic grid electrodes prepared by evaporative assembly. *ACS Applied Materials & Interfaces*, **2014**, 6, 12380-7	9.5	111
104	A roll-to-roll welding process for planarized silver nanowire electrodes. *Nanoscale*, **2014**, 6, 11828-34	7.7	132
103	Ultrathin organic solar cells with graphene doped by ferroelectric polarization. *ACS Applied Materials & Interfaces*, **2014**, 6, 3299-304	9.5	79
102	Organic solar cells using CVD-grown graphene electrodes. *Nanotechnology*, **2014**, 25, 014012	3.4	74
101	Rapid fabrication of designable large-scale aligned graphene nanoribbons by electro-hydrodynamic nanowire lithography. *Advanced Materials*, **2014**, 26, 3459-64	24	54
100	Electroluminescence from graphene quantum dots prepared by amidative cutting of tattered graphite. *Nano Letters*, **2014**, 14, 1306-11	11.5	226
99	Fabrication of high-quality single-crystal Cu thin films using radio-frequency sputtering. *Scientific Reports*, **2014**, 4, 6230	4.9	38
98	Copper Nanowires: Individually Position-Addressable Metal-Nanofiber Electrodes for Large-Area Electronics (Adv. Mater. 47/2014). *Advanced Materials*, **2014**, 26, 8067-8067	24	
97	Charge transport and morphology of pentacene films confined in nano-patterned region. *NPG Asia Materials*, **2014**, 6, e91-e91	10.3	12
96	Individually position-addressable metal-nanofiber electrodes for large-area electronics. *Advanced Materials*, **2014**, 26, 8010-6	24	47
95	N-doped graphene field-effect transistors with enhanced electron mobility and air-stability. *Small*, **2014**, 10, 1999-2005	11	65
94	Sub-Micrometer-Sized Spectrometer by Using Plasmonic Tapered Channel-Waveguide. *Journal of the Optical Society of Korea*, **2014**, 18, 788-792		2
93	Extremely bright full color alternating current electroluminescence of solution-blended fluorescent polymers with self-assembled block copolymer micelles. *ACS Nano*, **2013**, 7, 10809-17	16.7	44
92	Electrospun Organic Nanofiber Electronics and Photonics. *Macromolecular Materials and Engineering*, **2013**, 298, 475-486	3.9	71
91	Air-stable inverted structure of hybrid solar cells using a cesium-doped ZnO electron transport layer prepared by a sol-gel process. *Journal of Materials Chemistry A*, **2013**, 1, 11802	13	29
90	Macromol. Mater. Eng. 5/2013. *Macromolecular Materials and Engineering*, **2013**, 298, 600-600	3.9	

89	Improvement of power conversion efficiency of P3HT:CdSe hybrid solar cells by enhanced interconnection of CdSe nanorods via decomposable selenourea. *Journal of Materials Chemistry A*, **2013**, 1, 2401	13	11
88	Large-scale organic nanowire lithography and electronics. *Nature Communications*, **2013**, 4, 1773	17.4	235
87	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	33
86	Graphene growth from polymers. *Carbon Letters*, **2013**, 14, 145-151	2.3	3
85	Molecularly controlled interfacial layer strategy toward highly efficient simple-structured organic light-emitting diodes. *Advanced Materials*, **2012**, 24, 1487-93	24	83
84	Lithographically patterned anodic aluminum oxide (AAO) nanostructures for fluorescence enhancement **2012**,		2
83	Short turn-on/off time linear voltage regulator with data detector for power-aware optical interconnect system **2012**,		1
82	Extremely efficient flexible organic light-emitting diodes with modified graphene anode. *Nature Photonics*, **2012**, 6, 105-110	33.9	1141
81	Electrophosphorescent devices with solution processible emitter and hole transport layer stack. *Current Applied Physics*, **2012**, 12, e38-e41	2.6	7
80	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		40
79	Inverse opal tungsten trioxide films with mesoporous skeletons: synthesis and photoelectrochemical responses. *Chemical Communications*, **2012**, 48, 11939-41	5.8	33
78	Controlling surface enrichment in polymeric hole extraction layers to achieve high-efficiency organic photovoltaic cells. *ChemSusChem*, **2012**, 5, 2053-7	8.3	28
77	Dramatic substituent effects on the photoluminescence of boron complexes of 2-(benzothiazol-2-yl)phenols. *Chemistry - A European Journal*, **2012**, 18, 9886-93	4.8	99
76	Synthesis of transparent mesoporous tungsten trioxide films with enhanced photoelectrochemical response: application to unassisted solar water splitting. *Energy and Environmental Science*, **2011**, 4, 1465	15.4	132
75	Graphenes Converted from Polymers. *Journal of Physical Chemistry Letters*, **2011**, 2, 493-497	6.4	140
74	Photoreactive low-bandgap 4H-cyclopenta[2,1-b:3,4-b?]dithiophene and 4,7-di(thiophen-2-yl)benzo[c][1,2,5]thiadiazole-based alternating copolymer for polymer solar cell. *Organic Electronics*, **2011**, 12, 269-278	3.5	22
73	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	40
72	Inside Cover: Polyaniline-Based Conducting Polymer Compositions with a High Work Function for Hole-Injection Layers in Organic Light-Emitting Diodes: Formation of Ohmic Contacts (ChemSusChem 3/2011). *ChemSusChem*, **2011**, 4, 286-286	8.3	

71	Soluble Self-Doped Conducting Polymer Compositions with Tunable Work Function as Hole Injection/Extraction Layers in Organic Optoelectronics. *Angewandte Chemie*, **2011**, 123, 6398-6401	3.6	25
70	Soluble self-doped conducting polymer compositions with tunable work function as hole injection/extraction layers in organic optoelectronics. *Angewandte Chemie - International Edition*, **2011**, 50, 6274-7	16.4	86
69	Ultrahigh density array of CdSe nanorods for CdSe/polymer hybrid solar cells: enhancement in short-circuit current density. *Journal of Materials Chemistry*, **2011**, 21, 12449		21
68	Soft embossing of nanoscale optical and plasmonic structures in glass. *ACS Nano*, **2011**, 5, 5763-74	16.7	26
67	AC field-induced polymer electroluminescence with single wall carbon nanotubes. *Nano Letters*, **2011**, 11, 966-72	11.5	62
66	Morphological and electrical effect of an ultrathin iridium oxide hole extraction layer on P3HT:PCBM bulk-heterojunction solar cells. *Solar Energy Materials and Solar Cells*, **2011**, 95, 1146-1150	6.4	23
65	Positive Effects of E-Beam Irradiation in Inorganic Particle Based Separators for Lithium-Ion Battery. *Journal of the Electrochemical Society*, **2010**, 157, A31	3.9	17
64	Solution processable small molecules for organic light-emitting diodes. *Journal of Materials Chemistry*, **2010**, 20, 6392		506
63	Optical link between FPGA microprocessors using a fiber-embedded rigid PCB **2010**,		3
62	Approaches toward efficient and stable electron extraction contact in organic photovoltaic cells: Inspiration from organic light-emitting diodes. *Electronic Materials Letters*, **2010**, 6, 41-50	2.9	41
61	Highly efficient hybrid inorganic-organic light-emitting diodes by using air-stable metal oxides and a thick emitting layer. *ChemSusChem*, **2010**, 3, 1021-3	8.3	30
60	Pattern Formation of Silver Nanoparticles in 1-, 2-, and 3D Microstructures Fabricated by a Photo- and Thermal Reduction Method. *Advanced Functional Materials*, **2010**, 20, 2296-2302	15.6	18
59	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. *Advanced Functional Materials*, **2010**, 20, 1797-1802	15.6	127
58	Roles of interlayers in efficient organic photovoltaic devices. *Macromolecular Rapid Communications* , **2010**, 31, 2095-108	4.8	83
57	Synchronous vapor-phase polymerization of poly(3,4-ethylenedioxythiophene) and poly(3-hexylthiophene) copolymer systems for tunable optoelectronic properties. *Organic Electronics*, **2010**, 11, 1668-1675	3.5	18
56	Controlled TiO[sub 2] Nanotube Arrays as an Active Material for High Power Energy-Storage Devices. *Journal of the Electrochemical Society*, **2009**, 156, A584	3.9	57
55	Characteristics of Solution-Processed Small-Molecule Organic Films and Light-Emitting Diodes Compared with their Vacuum-Deposited Counterparts. *Advanced Functional Materials*, **2009**, 19, 1625-1630	15.6	151
54	Designing a Stable Cathode with Multiple Layers to Improve the Operational Lifetime of Polymer Light-Emitting Diodes. *Advanced Functional Materials*, **2009**, 19, 1863-1868	15.6	22

53	Three-Dimensional Bulk Heterojunction Morphology for Achieving High Internal Quantum Efficiency in Polymer Solar Cells. *Advanced Functional Materials*, **2009**, 19, 2398-2406	15.6	226
52	Fabrication of the flexible pentacene thin-film transistors on 304 and 430 stainless steel (SS) substrate. *Organic Electronics*, **2009**, 10, 970-977	3.5	24
51	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	3.8	39
50	Air stable and low temperature evaporable Li3N as a n type dopant in organic light-emitting diodes. *Synthetic Metals*, **2009**, 159, 1664-1666	3.6	14
49	Fabrication of poly(3-hexylthiophene) thin films by vapor-phase polymerization for optoelectronic device applications. *ACS Applied Materials & Interfaces*, **2009**, 1, 1567-71	9.5	12
48	Optimization of 3D Plasmonic Crystal Structures for Refractive Index Sensing. *Journal of Physical Chemistry C*, **2009**, 113, 10493-10499	3.8	34
47	Comparison of long- and short-wavelength optical transmitters for optical PCB applications **2009**,		1
46	Growth, detachment and transfer of highly-ordered TiO2 nanotube arrays: use in dye-sensitized solar cells. *Chemical Communications*, **2008**, 2867-9	5.8	209
45	Study on a set of bis-cyclometalated Ir(III) complexes with a common ancillary ligand. *Dalton Transactions*, **2008**, 4732-41	4.3	33
44	Spin-assembled nanolayer of a hyperbranched polymer on the anode in organic light-emitting diodes: the mechanism of hole injection and electron blocking. *Langmuir*, **2008**, 24, 12704-9	4	14
43	High-efficiency stacked white organic light-emitting diodes. *Applied Physics Letters*, **2008**, 92, 043301	3.4	161
42	Effects of Organic Lithium Salt Ultrathin Films on the Electron Injection Efficiency in OLED. *Molecular Crystals and Liquid Crystals*, **2008**, 491, 109-113	0.5	0
41	Solution-processed high-efficiency organic phosphorescent devices utilizing a blue Ir(III) complex. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 2990-5	1.3	
40	Seeing molecules by eye: surface plasmon resonance imaging at visible wavelengths with high spatial resolution and submonolayer sensitivity. *Angewandte Chemie - International Edition*, **2008**, 47, 5013-7	16.4	61
39	Control of the Surface Composition of a Conducting-Polymer Complex Film to Tune the Work Function. *Advanced Functional Materials*, **2008**, 18, 2246-2252	15.6	137
38	Water-Soluble Polyfluorenes as an Electron Injecting Layer in PLEDs for Extremely High Quantum Efficiency. *Advanced Materials*, **2008**, 20, 1624-1629	24	78
37	Transparent flexible conductor of poly(methyl methacrylate) containing highly-dispersed multiwalled carbon nanotube. *Organic Electronics*, **2008**, 9, 1-13	3.5	29
36	Surface smoothness and conductivity control of vapor-phase polymerized poly(3,4-ethylenedioxythiophene) thin coating for flexible optoelectronic applications. *Thin Solid Films*, **2008**, 516, 6020-6027	2.2	26

35	Layer-by-Layer Spin Self-Assembled Hole Injection Layers Containing a Perfluorinated Ionomer for Efficient Polymer Light-Emitting Diodes. *Macromolecular Rapid Communications*, **2007**, 28, 1366-1372	4.8	17
34	Novel Hyperbranched Phthalocyanine as a Hole Injection Nanolayer in Organic Light-Emitting Diodes. *Macromolecular Rapid Communications*, **2007**, 28, 1657-1662	4.8	35
33	A systematic doping strategy to control the emission spectrum of ternary luminescent polymer blends for white emission. *Optical Materials*, **2007**, 30, 486-491	3.3	13
32	Control of emission outcoupling in liquid-crystalline fluorescent polymer films. *Organic Electronics*, **2007**, 8, 317-324	3.5	9
31	A soluble self-doped conducting polyaniline graft copolymer as a hole injection layer in polymer light-emitting diodes. *Polymer*, **2007**, 48, 7236-7240	3.9	27
30	A stable blue host material for organic light-emitting diodes. *Applied Physics Letters*, **2007**, 91, 251111	3.4	26
29	Highly efficient red electrophosphorescence from a solution-processed zwitterionic cyclometalated iridium(III) complex. *Applied Physics Letters*, **2007**, 91, 211106	3.4	23
28	High-efficiency and stable optical transmitter using VCSEL-direct-bonded connector for optical interconnection. *Optics Express*, **2007**, 15, 15767-75	3.3	7
27	Synthesis and nonvolatile memory behavior of redox-active conjugated polymer-containing ferrocene. *Journal of the American Chemical Society*, **2007**, 129, 9842-3	16.4	137
26	Effect of Thermal Annealing on the Charge Carrier Mobility in a Polymer Electroluminescent Device. *Molecular Crystals and Liquid Crystals*, **2006**, 462, 241-248	0.5	1
25	Molecular monolayer modification of the cathode in organic light-emitting diodes. *Applied Physics Letters*, **2006**, 89, 223511	3.4	15
24	Hole-transporting interlayers for improving the device lifetime in the polymer light-emitting diodes. *Applied Physics Letters*, **2006**, 89, 123505	3.4	60
23	Quantitative multispectral biosensing and 1D imaging using quasi-3D plasmonic crystals. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 17143-8	11.5	293
22	Regenerated surface plasmon polaritons. *Applied Physics Letters*, **2005**, 86, 141105	3.4	17
21	Hole-injecting conducting-polymer compositions for highly efficient and stable organic light-emitting diodes. *Applied Physics Letters*, **2005**, 87, 231106	3.4	71
20	Subwavelength light bending by metal slit structures. *Optics Express*, **2005**, 13, 9652-9	3.3	165
19	White polymer light-emitting devices from ternary-polymer blend with concentration gradient. *Chemical Physics Letters*, **2005**, 403, 293-297	2.5	32
18	Organic light-emitting diodes formed by soft contact lamination. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 429-33	11.5	113

17	Low-threshold lasing in a microcavity of fluorene-based liquid-crystalline polymer blends. *Journal of Applied Physics*, **2003**, 93, 1367-1370	2.5	15
16	Photoluminescence characteristics of a highly soluble fullerene-containing polymer. *Macromolecular Research*, **2002**, 10, 278-281	1.9	5
15	Low-threshold blue amplified spontaneous emission in a statistical copolymer and its blend. *Applied Physics Letters*, **2002**, 81, 424-426	3.4	31
14	Application of a Novel Fullerene-Containing Copolymer to Electroluminescent Devices. *Chemistry of Materials*, **2002**, 14, 4281-4285	9.6	24
13	High-efficiency polymer light-emitting devices using organic salts: A multilayer structure to improve light-emitting electrochemical cells. *Applied Physics Letters*, **2002**, 81, 214-216	3.4	42
12	Excitation energy transfer in dye-doped ternary polymer blends for light-emitting diodes and lasers. *Current Applied Physics*, **2001**, 1, 363-366	2.6	14
11	White Emission from a Polymer Blend Light-Emitting Diode by Incomplete Cascade Energy Transfer. *Molecular Crystals and Liquid Crystals*, **2001**, 371, 435-438		3
10	Polymer light-emitting devices using ionomers as an electron injecting and hole blocking layer. *Journal of Applied Physics*, **2001**, 90, 2128-2134	2.5	56
9	Use of a Single Anionic Conductor as a Hole-Injecting Material for Polymer Light-Emitting Diodes. *Molecular Crystals and Liquid Crystals*, **2001**, 371, 207-210		1
8	Improvement of EL efficiency in polymer light-emitting diodes by heat treatments. *Synthetic Metals* , **2001**, 117, 249-251	3.6	23
7	White emission from a ternary polymer blend by incomplete cascade energy transfer. *Synthetic Metals*, **2001**, 122, 437-441	3.6	31
6	Efficient Photoluminescence and Electroluminescence from Environmentally Stable Polymer/Clay Nanocomposites. *Chemistry of Materials*, **2001**, 13, 2217-2222	9.6	60
5	Luminescent Spectral Changes in Polymer Light-Emitting Diodes after Heat Treatments. *Molecular Crystals and Liquid Crystals*, **2000**, 349, 451-454		4
4	Improved Quantum Efficiency by Overneutralization of Ionomers Used in Polymer Light-Emitting Diodes. *Molecular Crystals and Liquid Crystals*, **2000**, 349, 455-458		1
3	Effect of electrical annealing on the luminous efficiency of thermally annealed polymer light-emitting diodes. *Applied Physics Letters*, **2000**, 77, 3334-3336	3.4	50
2	Evidence of band bending observed by electroabsorption studies in polymer light emitting device with ionomer/Al or LiF/Al cathode. *Applied Physics Letters*, **2000**, 76, 2152-2154	3.4	64
1	Improvement of quantum efficiency in polymer light-emitting diodes by a single-ion conductor. *Applied Physics Letters*, **2000**, 76, 3161-3163	3.4	25