

Seunghyup Yoo

List of Publications by Year in Descending Order

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

210
papers

10,414
citations

49
h-index

98
g-index

235
ext. papers

11,836
ext. citations

9
avg, IF

6.29
L-index

#	Paper	IF	Citations
210	Double-Gate and Body-Contacted Nonvolatile Oxide Memory Thin-Film Transistors for Fast Erase Programming. <i>IEEE Transactions on Electron Devices</i> , 2022 , 69, 120-126	2.9	
209	A modulus-engineered multi-layer polymer film with mechanical robustness for the application to highly deformable substrate platform in stretchable electronics. <i>Chemical Engineering Journal</i> , 2022 , 431, 134074	14.7	0
208	Highly thin film with aerosol-deposited perovskite quantum dot/metal oxide composite for perfect color conversion and luminance enhancement. <i>Chemical Engineering Journal</i> , 2022 , 441, 135991	14.7	
207	Ultralong persistent luminescence from carbon dots.. <i>Light: Science and Applications</i> , 2022 , 11, 132	16.7	3
206	Organic-Based Biophotonic Devices 2022 , 311-345		
205	A highly bendable thin film encapsulation by the modulation of thermally induced interfacial residual stress. <i>Applied Surface Science</i> , 2022 , 598, 153874	6.7	1
204	Nanocrystalline Polymorphic Energy Funnels for Efficient and Stable Perovskite Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2021 , 6, 1821-1830	20.1	10
203	Impact of boryl acceptors in para-acridine-appended triarylboron emitters on blue thermally activated delayed fluorescence OLEDs. <i>Dyes and Pigments</i> , 2021 , 188, 109224	4.6	5
202	Highly efficient, heat dissipating, stretchable organic light-emitting diodes based on a MoO/Au/MoO electrode with encapsulation. <i>Nature Communications</i> , 2021 , 12, 2864	17.4	12
201	Quenching-Resistant Solid-State Photoluminescence of Graphene Quantum Dots: Reduction of π Stacking by Surface Functionalization with POSS, PEG, and HDA. <i>Advanced Functional Materials</i> , 2021 , 31, 2102741	15.6	14
200	22-4: Invited Paper: OLEDs for Wearables: From Form Factor Engineering to Healthcare Applications. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 274-277	0.5	2
199	Organic Sub-Bandgap Schottky Barrier Photodetectors with Near-Infrared Coherent Perfect Absorption. <i>ACS Photonics</i> , 2021 , 8, 2618-2625	6.3	1
198	Realization of Flexible Ultraviolet Organic Light-Emitting Diodes: Key Design Issues. <i>Advanced Photonics Research</i> , 2021 , 2, 2100108	1.9	0
197	Comprehensive defect suppression in perovskite nanocrystals for high-efficiency light-emitting diodes. <i>Nature Photonics</i> , 2021 , 15, 148-155	33.9	257
196	ZnO in organic electronics 2021 , 697-715		1
195	Toward Ultra-Efficient OLEDs: Approaches Based on Low Refractive Index Materials. <i>Advanced Optical Materials</i> , 2021 , 9, 2002182	8.1	4
194	Identification of a multi-stack structure of graphene electrodes doped layer-by-layer with benzimidazole and its implication for the design of optoelectronic devices. <i>Optics Express</i> , 2021 , 29, 23131-23141	3.3	23141

193	Optimal flickering light stimulation for entraining gamma waves in the human brain. <i>Scientific Reports</i> , 2021 , 11, 16206	4.9	0
192	Blue TADF Emitters Based on π -Heterotriangulene Acceptors for Highly Efficient OLEDs with Reduced Efficiency Roll-Off. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 45778-45788	9.5	4
191	Enhancement of Reverse Intersystem Crossing in Charge-Transfer Molecule through Internal Heavy Atom Effect (Adv. Funct. Mater. 50/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170374	15.6	
190	Thin-film transistor-driven vertically stacked full-color organic light-emitting diodes for high-resolution active-matrix displays. <i>Nature Communications</i> , 2020 , 11, 2732	17.4	24
189	Characterizing the Efficiency of Perovskite Solar Cells and Light-Emitting Diodes. <i>Joule</i> , 2020 , 4, 1206-1235	25.8	24
188	Controllable Singlet-Triplet Energy Splitting of Graphene Quantum Dots through Oxidation: From Phosphorescence to TADF. <i>Advanced Materials</i> , 2020 , 32, e2000936	24	38
187	Performance enhancement of conjugated polymer-small molecule-non fullerene ternary organic solar cells by tuning recombination kinetics and molecular ordering. <i>Solar Energy</i> , 2020 , 201, 499-507	6.8	15
186	Organic Light-Emitting Diodes: Pushing Toward the Limits and Beyond. <i>Advanced Materials</i> , 2020 , 32, e1907539	24	89
185	Blue Graphene Quantum Dots with High Color Purity by Controlling Subdomain Formation for Light-Emitting Devices. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6469-6477	5.6	9
184	Impact of Boron Acceptors on the TADF Properties of π -Donor-Appended Triarylboron Emitters. <i>Frontiers in Chemistry</i> , 2020 , 8, 538	5	5
183	Triarylboron-based TADF emitters with perfluoro substituents: high-efficiency OLEDs with a power efficiency over 100 lm W ⁻¹ . <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4253-4263	7.1	14
182	A 2D Titanium Carbide MXene Flexible Electrode for High-Efficiency Light-Emitting Diodes. <i>Advanced Materials</i> , 2020 , 32, e2000919	24	59
181	Vacuum Deposition 2020 , 1-23		1
180	Feature issue introduction: Optical Devices and Materials for Solar Energy and Solid-state Lighting (PVLED) 2019. <i>Optics Express</i> , 2020 , 28, 16027-16029	3.3	
179	Multifunctional materials for implantable and wearable photonic healthcare devices. <i>Nature Reviews Materials</i> , 2020 , 5, 149-165	73.3	206
178	Flexible and Transparent Thin-Film Transistors Based on Two-Dimensional Materials for Active-Matrix Display. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 4749-4754	9.5	14
177	Stretchable OLEDs: Realizing Stretchable OLEDs: A Hybrid Platform Based on Rigid Island Arrays on a Stress-Relieving Bilayer Structure (Adv. Mater. Technol. 11/2020). <i>Advanced Materials Technologies</i> , 2020 , 5, 2070068	6.8	
176	Graphene Quantum Dots: Controllable Singlet-Triplet Energy Splitting of Graphene Quantum Dots through Oxidation: From Phosphorescence to TADF (Adv. Mater. 31/2020). <i>Advanced Materials</i> , 2020 , 32, 2070233	24	1

175	Blue emission at atomically sharp 1D heterojunctions between graphene and h-BN. <i>Nature Communications</i> , 2020 , 11, 5359	17.4	11
174	Organic Light-Emitting Diodes: Pushing Toward the Limits and Beyond (Adv. Mater. 35/2020). <i>Advanced Materials</i> , 2020 , 32, 2070266	24	2
173	Practically Viable Approach to Efficient and Reliable Semitransparent Flexible Organic Solar Cells: Face-Seal Encapsulation Embedded with Tailored Color-Control Functionality. <i>Advanced Energy and Sustainability Research</i> , 2020 , 1, 2000020	1.6	1
172	Naphthalene Benzimidazole Based Neutral Ir(III) Emitters for Deep Red Organic Light-Emitting Diodes. <i>Inorganic Chemistry</i> , 2020 , 59, 12461-12470	5.1	6
171	Comprehensive and Comparative Analysis of Photoinduced Charge Generation, Recombination Kinetics, and Energy Losses in Fullerene and Nonfullerene Acceptor-Based Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 45083-45091	9.5	5
170	Realizing Stretchable OLEDs: A Hybrid Platform Based on Rigid Island Arrays on a Stress-Relieving Bilayer Structure. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000494	6.8	11
169	Design of ultrathin OLEDs having oxide-based transparent electrodes and encapsulation with sub-mm bending radius. <i>Organic Electronics</i> , 2020 , 82, 105704	3.5	17
168	Generating semi-metallic conductivity in polymers by laser-driven nanostructural reorganization. <i>Materials Horizons</i> , 2019 , 6, 2143-2151	14.4	10
167	Platform for wireless pressure sensing with built-in battery and instant visualization. <i>Nano Energy</i> , 2019 , 62, 230-238	17.1	32
166	Efficient Perovskite Light-Emitting Diodes Using Polycrystalline Core-Shell-Mimicked Nanograins. <i>Advanced Functional Materials</i> , 2019 , 29, 1902017	15.6	57
165	Human-Interactive, Active-Matrix Displays for Visualization of Tactile Pressures. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900082	6.8	36
164	Mitigating the Trade-off between Triplet Harvesting and Roll-off by Opening a Dexter-Type Channel in OLEDs. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 18283-18293	3.8	11
163	Spontaneous Generation of a Molecular Thin Hydrophobic Skin Layer on a Sub-20 nm, High-Polymer Dielectric for Extremely Stable Organic Thin-Film Transistor Operation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29113-29123	9.5	23
162	Importance of Purcell factor for optimizing structure of organic light-emitting diodes. <i>Optics Express</i> , 2019 , 27, 11057-11068	3.3	15
161	Vacuum Deposition 2019 , 1-24		2
160	Effect of Laser-Induced Direct Micropatterning on Polymer Optoelectronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47143-47152	9.5	5
159	Organic Vapor-Jet Printing with Reduced Heat Transfer for Fabrication of Flexible Organic Devices. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800332	6.8	5
158	Stabilizing color shift of tandem white organic light-emitting diodes. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 69, 414-421	6.3	14

157	Highly Stable AlInZnSnO and InZnO Double-Layer Oxide Thin-Film Transistors With Mobility Over 50 $\frac{\text{cm}^2}{\text{V} \cdot \text{s}}$ for High-Speed Operation. <i>IEEE Electron Device Letters</i> , 2018 , 39, 508-511	4.4	22
156	Columnar-Structured Low-Concentration Donor Molecules in Bulk Heterojunction Organic Solar Cells. <i>ACS Omega</i> , 2018 , 3, 929-936	3.9	8
155	Improving light extraction of flexible OLEDs using a mechanically robust Ag mesh/ITO composite electrode and microlens array. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 5444-5452	7.1	33
154	Built-In Haze Glass-Fabric Reinforced Siloxane Hybrid Film for Efficient Organic Light-Emitting Diodes (OLEDs). <i>Advanced Functional Materials</i> , 2018 , 28, 1802944	15.6	19
153	Efficient Solid-State Photoluminescence of Graphene Quantum Dots Embedded in Boron Oxynitride for AC-Electroluminescent Device. <i>Advanced Materials</i> , 2018 , 30, e1802951	24	47
152	Spontaneous Additive Nanopatterning from Solution Route Using Selective Wetting. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 26501-26509	9.5	7
151	Charge carrier dynamics in PffBT4T-2OD: PCBM organic solar cells. <i>Organic Electronics</i> , 2018 , 62, 441-447	3.5	11
150	Lensfree OLEDs with over 50% external quantum efficiency via external scattering and horizontally oriented emitters. <i>Nature Communications</i> , 2018 , 9, 3207	17.4	70
149	Toward all-day wearable health monitoring: An ultralow-power, reflective organic pulse oximetry sensing patch. <i>Science Advances</i> , 2018 , 4, eaas9530	14.3	93
148	Poly(amide-imide) materials for transparent and flexible displays. <i>Science Advances</i> , 2018 , 4, eaau1956	14.3	33
147	High-Efficiency Sky Blue to Ultradeep Blue Thermally Activated Delayed Fluorescent Diodes Based on Ortho-Carbazole-Appended Triarylboron Emitters: Above 32% External Quantum Efficiency in Blue Devices. <i>Advanced Optical Materials</i> , 2018 , 6, 1800385	8.1	80
146	Efficient Flexible Organic/Inorganic Hybrid Perovskite Light-Emitting Diodes Based on Graphene Anode. <i>Advanced Materials</i> , 2017 , 29, 1605587	24	163
145	Ga-doped ZnO as an electron transport layer for PffBT4T-2OD: PC70BM organic solar cells. <i>Organic Electronics</i> , 2017 , 43, 207-213	3.5	20
144	Organic vapor-jet-based route for solvent-free additive formation of oxide semiconductors. <i>Organic Electronics</i> , 2017 , 43, 235-239	3.5	2
143	Impact of the number of o-carboranyl ligands on the photophysical and electroluminescent properties of iridium(III) cyclometalates. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 3024-3034	7.1	15
142	. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2017 , 7, 50-59	5.2	16
141	Organic wrinkles embedded in high-index medium as planar internal scattering structures for organic light-emitting diodes. <i>Organic Electronics</i> , 2017 , 46, 139-144	3.5	18
140	Efficient Large-Area Transparent OLEDs Based on a Laminated Top Electrode with an Embedded Auxiliary Mesh. <i>ACS Photonics</i> , 2017 , 4, 1114-1122	6.3	29

139	A systematic approach to reducing angular color shift in cavity-based organic light-emitting diodes. <i>Organic Electronics</i> , 2017 , 48, 348-356	3.5	29
138	Device architecture for efficient, low-hysteresis flexible perovskite solar cells: Replacing TiO ₂ with C60 assisted by polyethylenimine ethoxylated interfacial layers. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 161, 338-346	6.4	46
137	Organic/inorganic multilayer thin film encapsulation via initiated chemical vapor deposition and atomic layer deposition for its application to organic solar cells. <i>Korean Journal of Chemical Engineering</i> , 2017 , 34, 892-897	2.8	27
136	Organic flash memory on various flexible substrates for foldable and disposable electronics. <i>Nature Communications</i> , 2017 , 8, 725	17.4	62
135	Temperature-Controlled Direct Imprinting of Ag Ionic Ink: Flexible Metal Grid Transparent Conductors with Enhanced Electromechanical Durability. <i>Scientific Reports</i> , 2017 , 7, 11220	4.9	14
134	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> , 2017 , 9, e411-e411	10.3	45
133	Rigidity-Induced Delayed Fluorescence by Ortho Donor-Appended Triarylboron Compounds: Record-High Efficiency in Pure Blue Fluorescent Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 24035-24042	9.5	110
132	Toward High-Output Organic Vertical Field Effect Transistors: Key Design Parameters. <i>Advanced Functional Materials</i> , 2016 , 26, 6888-6895	15.6	25
131	Organic Electronics: Toward High-Output Organic Vertical Field Effect Transistors: Key Design Parameters (Adv. Funct. Mater. 38/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 7023-7023	15.6	
130	Synergetic electrode architecture for efficient graphene-based flexible organic light-emitting diodes. <i>Nature Communications</i> , 2016 , 7, 11791	17.4	134
129	Efficient organic photomemory with photography-ready programming speed. <i>Scientific Reports</i> , 2016 , 6, 30536	4.9	10
128	31-1: Novel Laminated OLEDs Using a Non-Metal Transparent Top Electrode with an Embedded Metal Mesh. <i>Digest of Technical Papers SID International Symposium</i> , 2016 , 47, 389-392	0.5	
127	Simultaneously enhanced device efficiency, stabilized chromaticity of organic light emitting diodes with lambertian emission characteristic by random convex lenses. <i>Nanotechnology</i> , 2016 , 27, 075202	3.4	10
126	Tuning the electrode work function via a vapor-phase deposited ultrathin polymer film. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 831-839	7.1	9
125	Biologically Inspired Organic Light-Emitting Diodes. <i>Nano Letters</i> , 2016 , 16, 2994-3000	11.5	59
124	Homoleptic Tris-Cyclometalated Iridium Complexes with Substituted o-Carboranes: Green Phosphorescent Emitters for Highly Efficient Solution-Processed Organic Light-Emitting Diodes. <i>Inorganic Chemistry</i> , 2016 , 55, 909-17	5.1	59
123	P-9: High Performance Back Channel Etch Metal Oxide Thin-film Transistor with Double Active Layers. <i>Digest of Technical Papers SID International Symposium</i> , 2016 , 47, 1151-1154	0.5	5
122	P-67: Wide Bandwidth Reflective Microshutter Blind Panel for Transparent Organic Light-Emitting Diode Display. <i>Digest of Technical Papers SID International Symposium</i> , 2016 , 47, 1389-1391	0.5	1

121	A Low-Voltage Organic Complementary Inverter with High Operation Stability and Flexibility Using an Ultrathin iCVD Polymer Dielectric and a Hybrid Encapsulation Layer. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500385	6.4	24
120	Empowering Semi-Transparent Solar Cells with Thermal-Mirror Functionality. <i>Advanced Energy Materials</i> , 2016 , 6, 1502466	21.8	49
119	Fabrication of Vertical Silicon Nanotube Array Using Spacer Patterning Technique and Metal-Assisted Chemical Etching. <i>IEEE Nanotechnology Magazine</i> , 2016 , 1-1	2.6	5
118	Sticker-type ECG/PPG concurrent monitoring system hybrid integration of CMOS SoC and organic sensor device. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 2014-2017	0.9	4
117	22.3 A 141 μ W sensor SoC on OLED/OPD substrate for SpO ₂ /ExG monitoring sticker 2016 ,		1
116	Area-selective external light extraction for metal bus equipped large area transparent organic light-emitting diodes. <i>Optics Express</i> , 2016 , 24, 5356-5365	3.3	4
115	High-Performance, Solution-Processed, Embedded Multiscale Metallic Transparent Conductors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10937-45	9.5	18
114	Photo-physics of PTB7, PCBM and ICBA based ternary solar cells. <i>Organic Electronics</i> , 2016 , 34, 111-117	3.5	39
113	Feature issue introduction: light, energy and the environment, 2015. <i>Optics Express</i> , 2016 , 24, A981-4	3.3	3
112	A facile route to efficient, low-cost flexible organic light-emitting diodes: utilizing the high refractive index and built-in scattering properties of industrial-grade PEN substrates. <i>Advanced Materials</i> , 2015 , 27, 1624-31	24	84
111	Stability enhancement of normal-geometry organic solar cells in a highly damp condition: A study on the effect of top electrodes. <i>Organic Electronics</i> , 2015 , 25, 31-36	3.5	6
110	Organic wrinkles for energy efficient organic light emitting diodes. <i>Organic Electronics</i> , 2015 , 26, 273-278	3.5	39
109	Synthesis of ultrathin polymer insulating layers by initiated chemical vapour deposition for low-power soft electronics. <i>Nature Materials</i> , 2015 , 14, 628-35	27	184
108	Transparent organic light-emitting diodes with different bi-directional emission colors using color-conversion capping layers. <i>Journal of Luminescence</i> , 2015 , 162, 180-184	3.8	9
107	Poly(benzodithiophene) Homopolymer for High-Performance Polymer Solar Cells with Open-Circuit Voltage of Near 1 V: A Superior Candidate To Substitute for Poly(3-hexylthiophene) as Wide Bandgap Polymer. <i>Chemistry of Materials</i> , 2015 , 27, 2653-2658	9.6	39
106	Feature issue introduction: Light, Energy and the Environment, 2014. <i>Optics Express</i> , 2015 , 23, A764-6	3.3	3
105	Dual optical role of low-index injection layers for efficient polarizer-free high contrast-ratio organic light-emitting diodes. <i>Optics Express</i> , 2015 , 23, 10259-65	3.3	6
104	Controlled Doping of Vacancy-Containing Few-Layer MoS ₂ via Highly Stable Thiol-Based Molecular Chemisorption. <i>ACS Nano</i> , 2015 , 9, 12115-23	16.7	250

103	Color temperature tuning of white organic light-emitting diodes via spatial control of micro-cavity effects based on thin metal strips. <i>Organic Electronics</i> , 2015 , 26, 334-339	3.5	17
102	Highly Conductive, Bendable, Embedded Ag Nanoparticle Wire Arrays Via Convective Self-Assembly: Hybridization into Ag Nanowire Transparent Conductors. <i>Advanced Functional Materials</i> , 2015 , 25, 3888-3898	15.6	27
101	Overcoming the electroluminescence efficiency limitations of perovskite light-emitting diodes. <i>Science</i> , 2015 , 350, 1222-5	33.3	1963
100	Towards highly efficient and highly transparent OLEDs: advanced considerations for emission zone coupled with capping layer design. <i>Optics Express</i> , 2015 , 23, 27306-14	3.3	10
99	Polymer/small-molecule parallel tandem organic solar cells based on MoOx/Ag/MoOx intermediate electrodes. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 137, 34-43	6.4	17
98	Flexible Organic Solar Cells for Scalable, Low-Cost Photovoltaic Energy Conversion 2015 , 439-468		1
97	Simultaneously Enhancing Light Extraction and Device Stability of Organic Light-Emitting Diodes using a Corrugated Polymer Nanosphere Templated PEDOT:PSS Layer. <i>Advanced Energy Materials</i> , 2014 , 4, 1301345	21.8	15
96	Towards colorless transparent organic transistors: potential of benzothieno[3,2-b]benzothiophene-based wide-gap semiconductors. <i>Advanced Materials</i> , 2014 , 26, 3105-10	24	23
95	Polynorbornenes with pendant PCBM as an acceptor for OPVs: Ring-opening metathesis versus vinyl-addition polymerization. <i>European Polymer Journal</i> , 2014 , 51, 37-44	5.2	11
94	Highly transparent thin-film transistors using wide-bandgap organic semiconductors and multilayer transparent electrodes. <i>Journal of Information Display</i> , 2014 , 15, 59-63	4.1	3
93	Deep red phosphorescence of cyclometalated iridium complexes by o-carborane substitution. <i>Inorganic Chemistry</i> , 2014 , 53, 128-38	5.1	92
92	Highly Efficient Light-Emitting Diode of Graphene Quantum Dots Fabricated from Graphite Intercalation Compounds. <i>Advanced Optical Materials</i> , 2014 , 2, 1016-1023	8.1	199
91	High-density organic photovoltaic modules: Mask-free fabrication using nozzle jet printing and oblique deposition. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 120, 561-565	6.4	7
90	The stability of normal vs. inverted organic solar cells under highly damp conditions: Comparison with the same interfacial layers. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 128, 41-47	6.4	26
89	Synthesis and characterization of an anthracene-based low band gap polymer for photovoltaic devices. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 6422-6	1.3	2
88	Polarizer-free, high-contrast-ratio organic light-emitting diodes utilizing microcavity structures and neutral-density filters. <i>Journal of Information Display</i> , 2014 , 15, 195-199	4.1	4
87	Organic Electronics: Towards Colorless Transparent Organic Transistors: Potential of Benzothieno[3,2-b]benzothiophene-Based Wide-Gap Semiconductors (Adv. Mater. 19/2014). <i>Advanced Materials</i> , 2014 , 26, 3163-3163	24	1
86	Blur-Free Outcoupling Enhancement in Transparent Organic Light Emitting Diodes: Nanostructure Extracting Surface Plasmon Modes. <i>Advanced Optical Materials</i> , 2013 , 1, 687-691	8.1	29

85	Random and V-groove texturing for efficient light trapping in organic photovoltaic cells. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 115, 36-41	6.4	56
84	Overcoming the Retention vs. voltage Trade-off in nonvolatile organic memory: Ag nanoparticles covered with dipolar self-assembled monolayers as robust charge storage nodes. <i>Organic Electronics</i> , 2013 , 14, 3260-3266	3.5	19
83	Controlling the Threshold Voltage of Organic Thin-Film Transistors by Transition Metal Oxides. <i>IEEE Electron Device Letters</i> , 2013 , 34, 1014-1016	4.4	11
82	Polynorbornene Copolymer with Side-Chain Iridium(III) Emitters and Carbazole Hosts: A Single Emissive Layer Material for Highly Efficient Electrophosphorescent Devices. <i>Macromolecules</i> , 2013 , 46, 674-682	5.5	40
81	Cathodic multilayer transparent electrodes for ITO-free inverted organic solar cells. <i>Organic Electronics</i> , 2013 , 14, 1477-1482	3.5	13
80	Straight-forward control of the degree of micro-cavity effects in organic light-emitting diodes based on a thin striped metal layer. <i>Organic Electronics</i> , 2013 , 14, 2444-2450	3.5	9
79	Exciton dissociation and charge-transport enhancement in organic solar cells with quantum-dot/N-doped CNT hybrid nanomaterials. <i>Advanced Materials</i> , 2013 , 25, 2011-7	24	92
78	Solar Cells: Exciton Dissociation and Charge-Transport Enhancement in Organic Solar Cells with Quantum-Dot/N-doped CNT Hybrid Nanomaterials (Adv. Mater. 14/2013). <i>Advanced Materials</i> , 2013 , 25, 2104-2104	24	3
77	Actively transparent display with enhanced legibility based on an organic light-emitting diode and a cholesteric liquid crystal blind panel. <i>Optics Express</i> , 2013 , 21, 10358-66	3.3	15
76	Enhanced and balanced efficiency of white bi-directional organic light-emitting diodes. <i>Optics Express</i> , 2013 , 21, 28040-7	3.3	10
75	Transparent OLEDs: Blur-Free Outcoupling Enhancement in Transparent Organic Light Emitting Diodes: A Nanostructure Extracting Surface Plasmon Modes (Advanced Optical Materials 10/2013). <i>Advanced Optical Materials</i> , 2013 , 1, 686-686	8.1	1
74	Bi-directional organic light-emitting diodes with nanoparticle-enhanced light outcoupling. <i>Laser and Photonics Reviews</i> , 2013 , 7, 1079-1087	8.3	15
73	Cu-based multilayer transparent electrodes: A low-cost alternative to ITO electrodes in organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 101, 170-175	6.4	54
72	Silica nanoparticle-embedded sol-gel organic/inorganic hybrid nanocomposite for transparent OLED encapsulation. <i>Organic Electronics</i> , 2012 , 13, 53-57	3.5	63
71	Effect of carrier gas temperature on pentacene thin film formation by organic vapor-jet printing techniques. <i>Thermochimica Acta</i> , 2012 , 542, 74-79	2.9	2
70	Photoactive memory by a Si-nanowire field-effect transistor. <i>ACS Nano</i> , 2012 , 6, 1449-54	16.7	11
69	ITO-free down-conversion white organic light-emitting diodes with structured color conversion layers for enhanced optical efficiency and color rendering. <i>Organic Electronics</i> , 2012 , 13, 3145-3153	3.5	34
68	Workfunction-tunable, N-doped reduced graphene transparent electrodes for high-performance polymer light-emitting diodes. <i>ACS Nano</i> , 2012 , 6, 159-67	16.7	275

67	Soluble polynorbornenes with pendant carbazole derivatives as host materials for highly efficient blue phosphorescent organic light-emitting diodes. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 2356-2365 ^{2,5}	21
66	. <i>IEEE Transactions on Electron Devices</i> , 2012 , 59, 159-166	2.9 15
65	Vinyl-type polynorbornenes with pendant PCBM: a novel acceptor for organic solar cells. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 1119-25	4.8 21
64	A ZnO/N-doped carbon nanotube nanocomposite charge transport layer for high performance optoelectronics. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12695	78
63	Digital-mode organic vapor-jet printing (D-OVJP): advanced jet-on-demand control of organic thin-film deposition. <i>Advanced Materials</i> , 2012 , 24, 2857-62	24 14
62	Polarizer-free, high-contrast inverted top-emitting organic light emitting diodes: effect of the electrode structure. <i>Optics Express</i> , 2012 , 20, 1816-24	3.3 10
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