

Seunghyup Yoo

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210
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98
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235
ext. papers

11,836
ext. citations

9
avg, IF

6.29
L-index

#	Paper	IF	Citations
210	Overcoming the electroluminescence efficiency limitations of perovskite light-emitting diodes. <i>Science</i> , 2015 , 350, 1222-5	33.3	1963
209	Efficient thin-film organic solar cells based on pentacene/C60 heterojunctions. <i>Applied Physics Letters</i> , 2004 , 85, 5427-5429	3.4	453
208	High Electron Mobility in Room-Temperature Discotic Liquid-Crystalline Perylene Diimides. <i>Advanced Materials</i> , 2005 , 17, 2580-2583	24	278
207	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
206	Comprehensive defect suppression in perovskite nanocrystals for high-efficiency light-emitting diodes. <i>Nature Photonics</i> , 2021 , 15, 148-155	33.9	257
205	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
204	Selective electron- or hole-transport enhancement in bulk-heterojunction organic solar cells with N- or B-doped carbon nanotubes. <i>Advanced Materials</i> , 2011 , 23, 629-33	24	228
203	Improving performance of organic solar cells using amorphous tungsten oxides as an interfacial buffer layer on transparent anodes. <i>Organic Electronics</i> , 2009 , 10, 791-797	3.5	208
202	Multifunctional materials for implantable and wearable photonic healthcare devices. <i>Nature Reviews Materials</i> , 2020 , 5, 149-165	73.3	206
201	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
200	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
199	Origin of the open-circuit voltage in multilayer heterojunction organic solar cells. <i>Applied Physics Letters</i> , 2008 , 93, 193308	3.4	173
198	Interface modification of ITO thin films: organic photovoltaic cells. <i>Thin Solid Films</i> , 2003 , 445, 342-352	2.2	171
197	Efficient Flexible Organic/Inorganic Hybrid Perovskite Light-Emitting Diodes Based on Graphene Anode. <i>Advanced Materials</i> , 2017 , 29, 1605587	24	163
196	Nanoscale electronics: digital fabrication by direct femtosecond laser processing of metal nanoparticles. <i>Advanced Materials</i> , 2011 , 23, 3176-81	24	147
195	Intensity-dependent equivalent circuit parameters of organic solar cells based on pentacene and C60. <i>Journal of Applied Physics</i> , 2005 , 97, 103706	2.5	147
194	Resistive Switching Characteristics of Sol-gel Zinc Oxide Films for Flexible Memory Applications. <i>IEEE Transactions on Electron Devices</i> , 2009 , 56, 696-699	2.9	144

193	Highly flexible organic light-emitting diodes based on ZnS/Ag/WO ₃ multilayer transparent electrodes. <i>Organic Electronics</i> , 2009 , 10, 1163-1169	3.5	138
192	Synergetic electrode architecture for efficient graphene-based flexible organic light-emitting diodes. <i>Nature Communications</i> , 2016 , 7, 11791	17.4	134
191	Optical outcoupling enhancement in organic light-emitting diodes: highly conductive polymer as a low-index layer on microstructured ITO electrodes. <i>Advanced Materials</i> , 2010 , 22, 1849-53	24	132
190	Optical Properties of WO ₃ /Ag/WO ₃ Multilayer As Transparent Cathode in Top-Emitting Organic Light Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3453-3459	3.8	128
189	High-performance pentacene field-effect transistors using Al ₂ O ₃ gate dielectrics prepared by atomic layer deposition (ALD). <i>Organic Electronics</i> , 2007 , 8, 718-726	3.5	125
188	Encapsulation of pentacene/C ₆₀ organic solar cells with Al ₂ O ₃ deposited by atomic layer deposition. <i>Applied Physics Letters</i> , 2007 , 90, 253511	3.4	119
187	Analysis of improved photovoltaic properties of pentacene/C ₆₀ organic solar cells: Effects of exciton blocking layer thickness and thermal annealing. <i>Solid-State Electronics</i> , 2007 , 51, 1367-1375	1.7	114
186	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
185	Multilayer transparent electrode for organic light-emitting diodes: tuning its optical characteristics. <i>Optics Express</i> , 2010 , 18, 3404-14	3.3	98
184	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
183	Deep red phosphorescence of cyclometalated iridium complexes by o-carborane substitution. <i>Inorganic Chemistry</i> , 2014 , 53, 128-38	5.1	92
182	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
181	Organic Light-Emitting Diodes: Pushing Toward the Limits and Beyond. <i>Advanced Materials</i> , 2020 , 32, e1907539	24	89
180	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
179	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
178	A ZnO/N-doped carbon nanotube nanocomposite charge transport layer for high performance optoelectronics. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12695		78
177	High performance organic-inorganic hybrid barrier coating for encapsulation of OLEDs. <i>Journal of Materials Chemistry</i> , 2011 , 21, 1977-1983		76
176	Nonvolatile memory based on sol-gel ZnO thin-film transistors with Ag nanoparticles embedded in the ZnO/gate insulator interface. <i>Applied Physics Letters</i> , 2008 , 93, 224106	3.4	73

175	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
174	Modeling the electrical characteristics of TIPS-pentacene thin-film transistors: Effect of contact barrier, field-dependent mobility, and traps. <i>Organic Electronics</i> , 2008 , 9, 1026-1031	3.5	64
173	Silica nanoparticle-embedded sol-gel organic/inorganic hybrid nanocomposite for transparent OLED encapsulation. <i>Organic Electronics</i> , 2012 , 13, 53-57	3.5	63
172	Organic flash memory on various flexible substrates for foldable and disposable electronics. <i>Nature Communications</i> , 2017 , 8, 725	17.4	62
171	Abrupt heating-induced high-quality crystalline rubrene thin films for organic thin-film transistors. <i>Organic Electronics</i> , 2011 , 12, 1446-1453	3.5	60
170	A 2D Titanium Carbide MXene Flexible Electrode for High-Efficiency Light-Emitting Diodes. <i>Advanced Materials</i> , 2020 , 32, e2000919	24	59
169	Biologically Inspired Organic Light-Emitting Diodes. <i>Nano Letters</i> , 2016 , 16, 2994-3000	11.5	59
168	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
167	Efficient Perovskite Light-Emitting Diodes Using Polycrystalline Core-Shell-Mimicked Nanograins. <i>Advanced Functional Materials</i> , 2019 , 29, 1902017	15.6	57
166	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
165	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
164	Thermal transport properties of thin films of small molecule organic semiconductors. <i>Applied Physics Letters</i> , 2005 , 87, 241908	3.4	54
163	Highly transparent organic light-emitting diodes with a metallic top electrode: the dual role of a Cs ₂ CO ₃ layer. <i>Optics Express</i> , 2011 , 19, 1113-21	3.3	52
162	Empowering Semi-Transparent Solar Cells with Thermal-Mirror Functionality. <i>Advanced Energy Materials</i> , 2016 , 6, 1502466	21.8	49
161	Small molecule chemisorption on indium-tin oxide surfaces: enhancing probe molecule electron-transfer rates and the performance of organic light-emitting diodes. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 25191-202	3.4	48
160	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
159	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
158	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

157	Vinyl-Type Polynorbornenes with Triarylamine Side Groups: A New Class of Soluble Hole-Transporting Materials for OLEDs. <i>Macromolecules</i> , 2009 , 42, 6840-6843	5.5	45
156	Towards gigahertz operation: ultrafast low turn-on organic diodes and rectifiers based on C60 and tungsten oxide. <i>Advanced Materials</i> , 2011 , 23, 644-8	24	44
155	Low-Temperature Annealing for Highly Conductive Lead Chalcogenide Quantum Dot Solids. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 607-612	3.8	43
154	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
153	Vinyl-type polynorbornene with 9,9'-(1,1'-biphenyl)-4,4'-diylbis-9H-carbazole side groups as a host material for highly efficient green phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2011 , 21, 5422		40
152	Organic wrinkles for energy efficient organic light emitting diodes. <i>Organic Electronics</i> , 2015 , 26, 273-278	3.5	39
151	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
150	Photo-physics of PTB7, PCBM and ICBA based ternary solar cells. <i>Organic Electronics</i> , 2016 , 34, 111-117	3.5	39
149	Controllable Singlet-Triplet Energy Splitting of Graphene Quantum Dots through Oxidation: From Phosphorescence to TADF. <i>Advanced Materials</i> , 2020 , 32, e2000936	24	38
148	Human-Interactive, Active-Matrix Displays for Visualization of Tactile Pressures. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900082	6.8	36
147	Electron injection via pentacene thin films for efficient inverted organic light-emitting diodes. <i>Applied Physics Letters</i> , 2009 , 95, 053301	3.4	35
146	Versatile Multilayer Transparent Electrodes for ITO-Free and Flexible Organic Solar Cells. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010 , 16, 1656-1664	3.8	35
145	Synthesis and characterization of cyclopentadithiophene-based low bandgap copolymers containing electron-deficient benzoselenadiazole derivatives for photovoltaic devices. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 1423-1432	2.5	35
144	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
143	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
142	Poly(amide-imide) materials for transparent and flexible displays. <i>Science Advances</i> , 2018 , 4, eaau1956	14.3	33
141	Platform for wireless pressure sensing with built-in battery and instant visualization. <i>Nano Energy</i> , 2019 , 62, 230-238	17.1	32
140	Electrical-Stress-Induced Threshold Voltage Instability in Solution-Processed ZnO Thin-Film Transistors: An Experimental and Simulation Study. <i>IEEE Transactions on Electron Devices</i> , 2011 , 58, 1995-2002	2.9	32

139	Realization of efficient semitransparent organic photovoltaic cells with metallic top electrodes: utilizing the tunable absorption asymmetry. <i>Optics Express</i> , 2010 , 18 Suppl 4, A513-21	3.3	32
138	Tungsten oxide as a buffer layer inserted at the SnO ₂ /p-a-SiC interface of pin-type amorphous silicon based solar cells. <i>Applied Physics Letters</i> , 2010 , 96, 193501	3.4	31
137	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
136	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
135	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
134	Improvement of On/Off-Current Ratio in TiO_2 Active-Channel TFTs Using N_2/O_2 Plasma Treatment. <i>IEEE Electron Device Letters</i> , 2009 , 30, 362-364	4.4	29
133	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
132	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
131	New n-Type TiO_2 Transparent Active Channel TFTs Fabricated With a Solution Process. <i>IEEE Electron Device Letters</i> , 2008 , 29, 724-727	4.4	27
130	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
129	Toward High-Output Organic Vertical Field Effect Transistors: Key Design Parameters. <i>Advanced Functional Materials</i> , 2016 , 26, 6888-6895	15.6	25
128	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
127	Characterizing the Efficiency of Perovskite Solar Cells and Light-Emitting Diodes. <i>Joule</i> , 2020 , 4, 1206-1235	2.8	24
126	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
125	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
124	Towards colorless transparent organic transistors: potential of benzothieno[3,2-b]benzothiophene-based wide-gap semiconductors. <i>Advanced Materials</i> , 2014 , 26, 3105-3110	2.4	23
123	Highly Stable AlInZnSnO and InZnO Double-Layer Oxide Thin-Film Transistors With Mobility Over $50 \text{ cm}^2/\text{V} \cdot \text{s}$ for High-Speed Operation. <i>IEEE Electron Device Letters</i> , 2018 , 39, 508-511	4.4	22
122	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

121	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
120	Improved Electrical Characteristics of Amorphous Oxide TFTs Based on TiO_x Channel Layer Grown by Low-Temperature MOCVD. <i>IEEE Electron Device Letters</i> , 2008 , 29, 1319-1321	4.4	21
119	Integrated organic photovoltaic modules with a scalable voltage output. <i>Applied Physics Letters</i> , 2006 , 89, 2335-16	3.4	21
118	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
117	Performance Improvement of N-Type TiO_x Active-Channel TFTs Grown by Low-Temperature Plasma-Enhanced ALD. <i>IEEE Electron Device Letters</i> , 2009 , 30, 739-741	4.4	20
116	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
115	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
114	. <i>IEEE Transactions on Electron Devices</i> , 2011 , 58, 3048-3052	2.9	19
113	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
112	Synthesis and hole-transporting properties of vinyl-type polynorbornenes with ethyl ester linked triarylamine side groups. <i>Synthetic Metals</i> , 2010 , 160, 2000-2007	3.6	18
111	High-Performance, Solution-Processed, Embedded Multiscale Metallic Transparent Conductors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10937-45	9.5	18
110	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
109	Polymer/small-molecule parallel tandem organic solar cells based on $\text{MoOx}/\text{Ag}/\text{MoOx}$ intermediate electrodes. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 137, 34-43	6.4	17
108	Enhanced light extraction in organic light-emitting devices: Using conductive low-index layers and micropatterned indium tin oxide electrodes with optimal taper angle. <i>Applied Physics Letters</i> , 2012 , 100, 233303	3.4	17
107	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
106	. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2017 , 7, 50-59	5.2	16
105	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
104	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

103	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
102	. <i>IEEE Transactions on Electron Devices</i> , 2012 , 59, 159-166	2.9	15
101	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
100	Bi-directional organic light-emitting diodes with nanoparticle-enhanced light outcoupling. <i>Laser and Photonics Reviews</i> , 2013 , 7, 1079-1087	8.3	15
99	A Comparative Study of Charge Mobility Measurements in a Diamine and in a Hexaazatrinaphthylene Using Different Techniques. <i>Molecular Crystals and Liquid Crystals</i> , 2008 , 481, 80-93	0.5	15
98	Importance of Purcell factor for optimizing structure of organic light-emitting diodes. <i>Optics Express</i> , 2019 , 27, 11057-11068	3.3	15
97	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
96	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
95	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
94	Fullerene-derivative-embedded nanogap field-effect-transistor and its nonvolatile memory application. <i>Small</i> , 2010 , 6, 1617-21	11	14
93	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
92	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
91	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
90	Cathodic multilayer transparent electrodes for ITO-free inverted organic solar cells. <i>Organic Electronics</i> , 2013 , 14, 1477-1482	3.5	13
89	Improvement of the performance of inverted polymer solar cells with a fluorine-doped tin oxide electrode. <i>Current Applied Physics</i> , 2011 , 11, S175-S178	2.6	12
88	Diffraction near field of hollow optical fibre for a novel atomic funnel. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 1999 , 1, 364-370		12
87	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
86	Charge carrier dynamics in PffBT4T-2OD: PCBM organic solar cells. <i>Organic Electronics</i> , 2018 , 62, 441-447	3.5	11

85	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
84	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
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	Photoactive memory by a Si-nanowire field-effect transistor. <i>ACS Nano</i> , 2012 , 6, 1449-54	16.7	11
81	Nanogap electrode fabrication for a nanoscale device by volume-expanding electrochemical synthesis. <i>Small</i> , 2011 , 7, 2210-6	11	11
80	Low-Voltage High-Performance Pentacene Thin-Film Transistors With Ultrathin PVP/High- κ HfLaO Hybrid Gate Dielectric. <i>IEEE Electron Device Letters</i> , 2010 ,	4.4	11
79	Blue emission at atomically sharp 1D heterojunctions between graphene and h-BN. <i>Nature Communications</i> , 2020 , 11, 5359	17.4	11
78	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
77	Generating semi-metallic conductivity in polymers by laser-driven nanostructural reorganization. <i>Materials Horizons</i> , 2019 , 6, 2143-2151	14.4	10
76	Efficient organic photomemory with photography-ready programming speed. <i>Scientific Reports</i> , 2016 , 6, 30536	4.9	10
75	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
74	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
73	Enhanced and balanced efficiency of white bi-directional organic light-emitting diodes. <i>Optics Express</i> , 2013 , 21, 28040-7	3.3	10
72	Photoinduced memory with hybrid integration of an organic fullerene derivative and an inorganic nanogap-embedded field-effect transistor for low-voltage operation. <i>Advanced Materials</i> , 2011 , 23, 3326-31	24.1	10
71	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
70	Nanocrystalline Polymorphic Energy Funnels for Efficient and Stable Perovskite Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2021 , 6, 1821-1830	20.1	10
69	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
68	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

67	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
66	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
65	Columnar-Structured Low-Concentration Donor Molecules in Bulk Heterojunction Organic Solar Cells. <i>ACS Omega</i> , 2018 , 3, 929-936	3.9	8
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