Seunghyup Yoo

List of Publications by Year
in descending order

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228	13,276	34076	24232
papers	citations	52 h-index	110 g-index

235	235	235	16535
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Overcoming the electroluminescence efficiency limitations of perovskite light-emitting diodes. Science, 2015, 350, 1222-1225.	6.0	2,440
2	Comprehensive defect suppression in perovskite nanocrystals for high-efficiency light-emitting diodes. Nature Photonics, 2021, 15, 148-155.	15.6	590
3	Efficient thin-film organic solar cells based on pentacene/C60 heterojunctions. Applied Physics Letters, 2004, 85, 5427-5429.	1.5	488
4	Multifunctional materials for implantable and wearable photonic healthcare devices. Nature Reviews Materials, 2020, 5, 149-165.	23.3	403
5	Controlled Doping of Vacancy-Containing Few-Layer MoS₂ via Highly Stable Thiol-Based Molecular Chemisorption. ACS Nano, 2015, 9, 12115-12123.	7.3	320
6	High Electron Mobility in Room-Temperature Discotic Liquid-Crystalline Perylene Diimides. Advanced Materials, 2005, 17, 2580-2583.	11.1	300
7	Workfunction-Tunable, N-Doped Reduced Graphene Transparent Electrodes for High-Performance Polymer Light-Emitting Diodes. ACS Nano, 2012, 6, 159-167.	7.3	297
8	Selective Electronâ€•or Holeâ€Transport Enhancement in Bulkâ€Heterojunction Organic Solar Cells with Nâ€• or Bâ€Doped Carbon Nanotubes. Advanced Materials, 2011, 23, 629-633.	11.1	248
9	Improving performance of organic solar cells using amorphous tungsten oxides as an interfacial buffer layer on transparent anodes. Organic Electronics, 2009, 10, 791-797.	1.4	236
10	Highly Efficient Lightâ€Emitting Diode of Graphene Quantum Dots Fabricated from Graphite Intercalation Compounds. Advanced Optical Materials, 2014, 2, 1016-1023.	3.6	229
11	Synthesis of ultrathin polymer insulating layers by initiated chemical vapour deposition for low-power soft electronics. Nature Materials, 2015, 14, 628-635.	13.3	229
12	Efficient Flexible Organic/Inorganic Hybrid Perovskite Lightâ€Emitting Diodes Based on Graphene Anode. Advanced Materials, 2017, 29, 1605587.	11.1	200
13	Organic Lightâ€Emitting Diodes: Pushing Toward the Limits and Beyond. Advanced Materials, 2020, 32, e1907539.	11.1	195
14	Interface modification of ITO thin films: organic photovoltaic cells. Thin Solid Films, 2003, 445, 342-352.	0.8	184
15	Origin of the open-circuit voltage in multilayer heterojunction organic solar cells. Applied Physics Letters, 2008, 93, .	1.5	180
16	Intensity-dependent equivalent circuit parameters of organic solar cells based on pentacene and C60. Journal of Applied Physics, 2005, 97, 103706.	1.1	176
17	Nanoscale Electronics: Digital Fabrication by Direct Femtosecond Laser Processing of Metal Nanoparticles. Advanced Materials, 2011, 23, 3176-3181.	11.1	176
18	Toward all-day wearable health monitoring: An ultralow-power, reflective organic pulse oximetry sensing patch. Science Advances, 2018, 4, eaas9530.	4.7	171

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19	Resistive Switching Characteristics of Solâ€“Gel Zinc Oxide Films for Flexible Memory Applications. IEEE Transactions on Electron Devices, 2009, 56, 696-699.	1.6	164
20	Synergetic electrode architecture for efficient graphene-based flexible organic light-emitting diodes. Nature Communications, 2016, 7, 11791.	5.8	163
21	Highly flexible organic light-emitting diodes based on ZnS/Ag/WO3 multilayer transparent electrodes. Organic Electronics, 2009, 10, 1163-1169.	1.4	158
22	Optical Properties of WO₃/Ag/WO₃ Multilayer As Transparent Cathode in Top-Emitting Organic Light Emitting Diodes. Journal of Physical Chemistry C, 2011, 115, 3453-3459.	1.5	153
23	Optical Outcoupling Enhancement in Organic Lightâ€Emitting Diodes: Highly Conductive Polymer as a Lowâ€Index Layer on Microstructured ITO Electrodes. Advanced Materials, 2010, 22, 1849-1853.	11.1	150
24	High-performance pentacene field-effect transistors using Al2O3 gate dielectrics prepared by atomic layer deposition (ALD). Organic Electronics, 2007, 8, 718-726.	1.4	133
25	Rigidity-Induced Delayed Fluorescence by Ortho Donor-Appended Triarylboron Compounds: Record-High Efficiency in Pure Blue Fluorescent Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2017, 9, 24035-24042.	4.0	131
26	Encapsulation of pentacene/C60 organic solar cells with Al2O3 deposited by atomic layer deposition. Applied Physics Letters, 2007, 90, 253511.	1.5	126
27	A 2D Titanium Carbide MXene Flexible Electrode for Highâ€Efficiency Lightâ€Emitting Diodes. Advanced Materials, 2020, 32, e2000919.	11.1	122
28	Analysis of improved photovoltaic properties of pentacene/C60 organic solar cells: Effects of exciton blocking layer thickness and thermal annealing. Solid-State Electronics, 2007, 51, 1367-1375.	0.8	117
29	Multilayer transparent electrode for organic light-emitting diodes: tuning its optical characteristics. Optics Express, 2010, 18, 3404.	1.7	106
30	Highâ€Efficiency Sky Blue to Ultradeep Blue Thermally Activated Delayed Fluorescent Diodes Based on Orthoâ€Carbazoleâ€Appended Triarylboron Emitters: Above 32% External Quantum Efficiency in Blue Devices. Advanced Optical Materials, 2018, 6, 1800385.	3.6	104
31	Exciton Dissociation and Chargeâ€Transport Enhancement in Organic Solar Cells with Quantumâ€Dot/Nâ€doped CNT Hybrid Nanomaterials. Advanced Materials, 2013, 25, 2011-2017.	11.1	103
32	A Facile Route to Efficient, Lowâ€Cost Flexible Organic Lightâ€Emitting Diodes: Utilizing the High Refractive Index and Builtâ€In Scattering Properties of Industrialâ€Grade PEN Substrates. Advanced Materials, 2015, 27, 1624-1631.	11.1	101
33	Deep Red Phosphorescence of Cyclometalated Iridium Complexes by o-Carborane Substitution. Inorganic Chemistry, 2014, 53, 128-138.	1.9	99
34	Lensfree OLEDs with over 50% external quantum efficiency via external scattering and horizontally oriented emitters. Nature Communications, 2018, 9, 3207.	5.8	96
35	Organic flash memory on various flexible substrates for foldable and disposable electronics. Nature Communications, 2017, 8, 725.	5.8	88
36	A ZnO/N-doped carbon nanotube nanocomposite charge transport layer for high performance optoelectronics. Journal of Materials Chemistry, 2012, 22, 12695.	6.7	86

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37	Controllable Singletâ€“Triplet Energy Splitting of Graphene Quantum Dots through Oxidation: From Phosphorescence to TADF. Advanced Materials, 2020, 32, e2000936.	11.1	86
38	High performance organic-inorganic hybrid barrier coating for encapsulation of OLEDs. Journal of Materials Chemistry, 2011, 21, 1977-1983.	6.7	84
39	Nonvolatile memory based on sol-gel ZnO thin-film transistors with Ag nanoparticles embedded in the ZnO/gate insulator interface. Applied Physics Letters, 2008, 93, 224106.	1.5	80
40	Biologically Inspired Organic Light-Emitting Diodes. Nano Letters, 2016, 16, 2994-3000.	4.5	78
41	Efficient Perovskite Lightâ€Emitting Diodes Using Polycrystalline Coreâ€“Shellâ€Mimicked Nanograins. Advanced Functional Materials, 2019, 29, 1902017.	7.8	76
42	Modeling the electrical characteristics of TIPS-pentacene thin-film transistors: Effect of contact barrier, field-dependent mobility, and traps. Organic Electronics, 2008, 9, 1026-1031.	1.4	75
43	Silica nanoparticle-embedded solâ€“gel organic/inorganic hybrid nanocomposite for transparent OLED encapsulation. Organic Electronics, 2012, 13, 53-57.	1.4	75
44	Random and V-groove texturing for efficient light trapping in organic photovoltaic cells. Solar Energy Materials and Solar Cells, 2013, 115, 36-41.	3.0	70
45	Abrupt heating-induced high-quality crystalline rubrene thin films for organic thin-film transistors. Organic Electronics, 2011, 12, 1446-1453.	1.4	68
46	Empowering Semiâ€Transparent Solar Cells with Thermalâ€Mirror Functionality. Advanced Energy Materials, 2016, 6, 1502466.	10.2	68
47	Efficient Solidâ€State Photoluminescence of Graphene Quantum Dots Embedded in Boron Oxynitride for ACâ€Electroluminescent Device. Advanced Materials, 2018, 30, e1802951.	11.1	66
48	Cu-based multilayer transparent electrodes: A low-cost alternative to ITO electrodes in organic solar cells. Solar Energy Materials and Solar Cells, 2012, 101, 170-175.	3.0	65
49	Thermal transport properties of thin films of small molecule organic semiconductors. Applied Physics Letters, 2005, 87, 241908.	1.5	63
50	Homoleptic Tris-Cyclometalated Iridium Complexes with Substituted o-Carboranes: Green Phosphorescent Emitters for Highly Efficient Solution-Processed Organic Light-Emitting Diodes. Inorganic Chemistry, 2016, 55, 909-917.	1.9	63
51	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.	3.8	60
52	Highly transparent organic light-emitting diodes with a metallic top electrode: the dual role of a Cs_2CO_3 layer. Optics Express, 2011, 19, 1113.	1.7	58
53	Poly(amide-imide) materials for transparent and flexible displays. Science Advances, 2018, 4, eaau1956.	4.7	57
54	Humanâ€Interactive, Activeâ€Matrix Displays for Visualization of Tactile Pressures. Advanced Materials Technologies, 2019, 4, 1900082.	3.0	53

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55	Characterizing the Efficiency of Perovskite Solar Cells and Light-Emitting Diodes. Joule, 2020, 4, 1206-1235.	11.7	53
56	Thin-film transistor-driven vertically stacked full-color organic light-emitting diodes for high-resolution active-matrix displays. Nature Communications, 2020, 11, 2732.	5.8	52
57	Towards Gigahertz Operation: Ultrafast Low Turnâ€on Organic Diodes and Rectifiers Based on C₆₀ and Tungsten Oxide. Advanced Materials, 2011, 23, 644-648.	11.1	50
58	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.	3.0	49
59	Small Molecule Chemisorption on Indiumâ˜Tin Oxide Surfaces:Â Enhancing Probe Molecule Electron-Transfer Rates and the Performance of Organic Light-Emitting Diodesâ€. Journal of Physical Chemistry B, 2006, 110, 25191-25202.	1.2	48
60	Vinyl-Type Polynorbornenes with Triarylamine Side Groups: A New Class of Soluble Hole-Transporting Materials for OLEDs. Macromolecules, 2009, 42, 6840-6843.	2.2	46
61	Low-Temperature Annealing for Highly Conductive Lead Chalcogenide Quantum Dot Solids. Journal of Physical Chemistry C, 2011, 115, 607-612.	1.5	46
62	Photo-physics of PTB7, PCBM and ICBA based ternary solar cells. Organic Electronics, 2016, 34, 111-117.	1.4	46
63	Organic wrinkles for energy efficient organic light emitting diodes. Organic Electronics, 2015, 26, 273-278.	1.4	45
64	Quenchingâ€Resistant Solidâ€State Photoluminescence of Graphene Quantum Dots: Reduction of Ï€â˜Ï€ Stacking by Surface Functionalization with POSS, PEG, and HDA. Advanced Functional Materials, 2021, 31, 2102741.	7.8	45
65	Platform for wireless pressure sensing with built-in battery and instant visualization. Nano Energy, 2019, 62, 230-238.	8.2	43
66	Polynorbornene Copolymer with Side-Chain Iridium(III) Emitters and Carbazole Hosts: A Single Emissive Layer Material for Highly Efficient Electrophosphorescent Devices. Macromolecules, 2013, 46, 674-682.	2.2	42
67	Highly efficient, heat dissipating, stretchable organic light-emitting diodes based on a MoO3/Au/MoO3 electrode with encapsulation. Nature Communications, 2021, 12, 2864.	5.8	42
68	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. Chemistry of Materials, 2015, 27, 2653-2658.	3.2	41
69	Efficient Large-Area Transparent OLEDs Based on a Laminated Top Electrode with an Embedded Auxiliary Mesh. ACS Photonics, 2017, 4, 1114-1122.	3.2	41
70	Vinyl-type polynorbornene with 9,9â€²-(1,1â€²-biphenyl)-4,4â€²-diylbis-9H-carbazole side groups as a host material for highly efficient green phosphorescent organic light-emitting diodes. Journal of Materials Chemistry, 2011, 21, 5422.	6.7	40
71	Versatile Multilayer Transparent Electrodes for ITO-Free and Flexible Organic Solar Cells. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1656-1664.	1.9	39
72	Improving light extraction of flexible OLEDs using a mechanically robust Ag mesh/ITO composite electrode and microlens array. Journal of Materials Chemistry C, 2018, 6, 5444-5452.	2.7	39

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73	Synthesis and characterization of cyclopentadithiopheneâ€based low bandgap copolymers containing electronâ€deficient benzoselenadiazole derivatives for photovoltaic devices. Journal of Polymer Science Part A, 2010, 48, 1423-1432.	2.5	38
74	Tungsten oxide as a buffer layer inserted at the SnO2/p-a-SiC interface of pin-type amorphous silicon based solar cells. Applied Physics Letters, 2010, 96, .	1.5	38
75	Electron injection via pentacene thin films for efficient inverted organic light-emitting diodes. Applied Physics Letters, 2009, 95, 053301.	1.5	37
76	A systematic approach to reducing angular color shift in cavity-based organic light-emitting diodes. Organic Electronics, 2017, 48, 348-356.	1.4	37
77	Enhancement of Reverse Intersystem Crossing in Chargeâ€Transfer Molecule through Internal Heavy Atom Effect. Advanced Functional Materials, 2021, 31, 2104646.	7.8	37
78	Realization of efficient semitransparent organic photovoltaic cells with metallic top electrodes: utilizing the tunable absorption asymmetry. Optics Express, 2010, 18, A513.	1.7	36
79	ITO-free down-conversion white organic light-emitting diodes with structured color conversion layers for enhanced optical efficiency and color rendering. Organic Electronics, 2012, 13, 3145-3153.	1.4	36
80	Improvement of Onâ€“Off-Current Ratio in $ hbox{TiO}_{m x}$ Active-Channel TFTs Using $hbox{N}_{2} hbox{O}$ Plasma Treatment. IEEE Electron Device Letters, 2009, 30, 362-364.	2.2	34
81	Electrical-Stress-Induced Threshold Voltage Instability in Solution-Processed ZnO Thin-Film Transistors: An Experimental and Simulation Study. IEEE Transactions on Electron Devices, 2011, 58, 1995-2002.	1.6	33
82	Highly Conductive, Bendable, Embedded Ag Nanoparticle Wire Arrays Via Convective Selfâ€Assembly: Hybridization into Ag Nanowire Transparent Conductors. Advanced Functional Materials, 2015, 25, 3888-3898.	7.8	33
83	Toward Highâ€Output Organic Vertical Field Effect Transistors: Key Design Parameters. Advanced Functional Materials, 2016, 26, 6888-6895.	7.8	33
84	Highly Stable AlInZnSnO and InZnO Double-Layer Oxide Thin-Film Transistors With Mobility Over 50 $ext{cm}^{2}/ext{V} cdot ext{s}$ for High-Speed Operation. IEEE Electron Device Letters, 2018, 39, 508-511.	2.2	33
85	Organic/inorganic multilayer thin film encapsulation via initiated chemical vapor deposition and atomic layer deposition for its application to organic solar cells. Korean Journal of Chemical Engineering, 2017, 34, 892-897.	1.2	32
86	Blurâ€Free Outcoupling Enhancement in Transparent Organic Light Emitting Diodes:ÂA Nanostructure Extracting Surface Plasmon Modes. Advanced Optical Materials, 2013, 1, 687-691.	3.6	31
87	New n-Type <formula formulatype="inline"><tex Notation="TeX">$hbox{TiO}_{2}$</tex></formula> Transparent Active Channel TFTs Fabricated With a Solution Process. IEEE Electron Device Letters, 2008, 29, 724-727.	2.2	29
88	The stability of normal vs. inverted organic solar cells under highly damp conditions: Comparison with the same interfacial layers. Solar Energy Materials and Solar Cells, 2014, 128, 41-47.	3.0	29
89	A Lowâ€Voltage Organic Complementary Inverter with High Operation Stability and Flexibility Using an Ultrathin iCVD Polymer Dielectric and a Hybrid Encapsulation Layer. Advanced Electronic Materials, 2016, 2, 1500385.	2.6	29
90	Spontaneous Generation of a Molecular Thin Hydrophobic Skin Layer on a Sub-20 nm, High-k Polymer Dielectric for Extremely Stable Organic Thin-Film Transistor Operation. ACS Applied Materials & Interfaces, 2019, 11, 29113-29123.	4.0	29

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91	Flexible and Transparent Thin-Film Transistors Based on Two-Dimensional Materials for Active-Matrix Display. ACS Applied Materials & Interfaces, 2020, 12, 4749-4754.	4.0	29
92	Design of ultrathin OLEDs having oxide-based transparent electrodes and encapsulation with sub-mm bending radius. Organic Electronics, 2020, 82, 105704.	1.4	29
93	Builtâ€In Haze Glassâ€Fabric Reinforced Siloxane Hybrid Film for Efficient Organic Lightâ€Emitting Diodes (OLEDs). Advanced Functional Materials, 2018, 28, 1802944.	7.8	28
94	Ga-doped ZnO as an electron transport layer for PffBT4T-2OD: PC70BM organic solar cells. Organic Electronics, 2017, 43, 207-213.	1.4	27
95	Sticker-Type Hybrid Photoplethysmogram Monitoring System Integrating CMOS IC With Organic Optical Sensors. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2017, 7, 50-59.	2.7	26
96	Organic wrinkles embedded in high-index medium as planar internal scattering structures for organic light-emitting diodes. Organic Electronics, 2017, 46, 139-144.	1.4	25
97	Towards Colorless Transparent Organic Transistors: Potential of Benzothieno[3,2â€b]benzothiopheneâ€Based Wideâ€Gap Semiconductors. Advanced Materials, 2014, 26, 3105-3110.	11.1	24
98	Performance Improvement of N-Type $hbox{TiO}_{x}$ Active-Channel TFTs Grown by Low-Temperature Plasma-Enhanced ALD. IEEE Electron Device Letters, 2009, 30, 739-741.	2.2	23
99	Blue emission at atomically sharp 1D heterojunctions between graphene and h-BN. Nature Communications, 2020, 11, 5359.	5.8	23
100	Realizing Stretchable OLEDs: A Hybrid Platform Based on Rigid Island Arrays on a Stressâ€Relieving Bilayer Structure. Advanced Materials Technologies, 2020, 5, 2000494.	3.0	23
101	Triarylboron-based TADF emitters with perfluoro substituents: high-efficiency OLEDs with a power efficiency over 100 lm W^{â^'1}. Journal of Materials Chemistry C, 2020, 8, 4253-4263.	2.7	23
102	Nanocrystalline Polymorphic Energy Funnels for Efficient and Stable Perovskite Light-Emitting Diodes. ACS Energy Letters, 2021, 6, 1821-1830.	8.8	23
103	Integrated organic photovoltaic modules with a scalable voltage output. Applied Physics Letters, 2006, 89, 233516.	1.5	22
104	Improved Electrical Characteristics of Amorphous Oxide TFTs Based on $hbox{TiO}_{x}$ Channel Layer Grown by Low-Temperature MOCVD. IEEE Electron Device Letters, 2008, 29, 1319-1321.	2.2	22
105	Vinylâ€Type Polynorbornenes with Pendant PCBM: A Novel Acceptor for Organic Solar Cells. Macromolecular Rapid Communications, 2012, 33, 1119-1125.	2.0	22
106	Blue TADF Emitters Based on B-Heterotriangulene Acceptors for Highly Efficient OLEDs with Reduced Efficiency Roll-Off. ACS Applied Materials & Interfaces, 2021, 13, 45778-45788.	4.0	22
107	Soluble polynorbornenes with pendant carbazole derivatives as host materials for highly efficient blue phosphorescent organic lightâ€emitting diodes. Journal of Polymer Science Part A, 2012, 50, 2356-2365.	2.5	21
108	High-Performance, Solution-Processed, Embedded Multiscale Metallic Transparent Conductors. ACS Applied Materials & Interfaces, 2016, 8, 10937-10945.	4.0	21

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109	Generating semi-metallic conductivity in polymers by laser-driven nanostructural reorganization. Materials Horizons, 2019, 6, 2143-2151.	6.4	21
110	Performance enhancement of conjugated polymer-small molecule-non fullerene ternary organic solar cells by tuning recombination kinetics and molecular ordering. Solar Energy, 2020, 201, 499-507.	2.9	21
111	Importance of Purcell factor for optimizing structure of organic light-emitting diodes. Optics Express, 2019, 27, 11057.	1.7	20
112	Synthesis and hole-transporting properties of vinyl-type polynorbornenes with ethyl ester linked triarylamine side groups. Synthetic Metals, 2010, 160, 2000-2007.	2.1	19
113	Amorphous Si Rear Schottky Junction Solar Cell With a LiF/Al Back Electrode. IEEE Transactions on Electron Devices, 2011, 58, 3048-3052.	1.6	19
114	Overcoming the â€œretention vs. voltageâ€•trade-off in nonvolatile organic memory: Ag nanoparticles covered with dipolar self-assembled monolayers as robust charge storage nodes. Organic Electronics, 2013, 14, 3260-3266.	1.4	19
115	Actively transparent display with enhanced legibility based on an organic light-emitting diode and a cholesteric liquid crystal blind panel. Optics Express, 2013, 21, 10358.	1.7	19
116	Simultaneously Enhancing Light Extraction and Device Stability of Organic Lightâ€Emitting Diodes using a Corrugated Polymer Nanosphere Templated PEDOT:PSS Layer. Advanced Energy Materials, 2014, 4, 1301345.	10.2	19
117	Color temperature tuning of white organic light-emitting diodes via spatial control of micro-cavity effects based on thin metal strips. Organic Electronics, 2015, 26, 334-339.	1.4	19
118	Stabilizing color shift of tandem white organic light-emitting diodes. Journal of Industrial and Engineering Chemistry, 2019, 69, 414-421.	2.9	19
119	A Comparative Study of Charge Mobility Measurements in a Diamine and in a Hexaazatrinaphthylene Using Different Techniques. Molecular Crystals and Liquid Crystals, 2008, 481, 80-93.	0.4	18
120	Polymer/small-molecule parallel tandem organic solar cells based on MoOxâ€“Agâ€“MoOx intermediate electrodes. Solar Energy Materials and Solar Cells, 2015, 137, 34-43.	3.0	18
121	Comprehensive and Comparative Analysis of Photoinduced Charge Generation, Recombination Kinetics, and Energy Losses in Fullerene and Nonfullerene Acceptor-Based Organic Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 45083-45091.	4.0	18
122	Enhanced light extraction in organic light-emitting devices: Using conductive low-index layers and micropatterned indium tin oxide electrodes with optimal taper angle. Applied Physics Letters, 2012, 100, 233303.	1.5	17
123	Doping-Free Inverted Top-Emitting Organic Light-Emitting Diodes With High Power Efficiency and Near-Ideal Emission Characteristics. IEEE Transactions on Electron Devices, 2012, 59, 159-166.	1.6	17
124	Cathodic multilayer transparent electrodes for ITO-free inverted organic solar cells. Organic Electronics, 2013, 14, 1477-1482.	1.4	17
125	Biâ€directional organic lightâ€emitting diodes with nanoparticleâ€enhanced light outcoupling. Laser and Photonics Reviews, 2013, 7, 1079-1087.	4.4	17
126	Impact of the number of o-carboranyl ligands on the photophysical and electroluminescent properties of iridium(<scp>iii</scp>) cyclometalates. Journal of Materials Chemistry C, 2017, 5, 3024-3034.	2.7	17

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127	Blue Graphene Quantum Dots with High Color Purity by Controlling Subdomain Formation for Light-Emitting Devices. ACS Applied Nano Materials, 2020, 3, 6469-6477.	2.4	17
128	Temperature-Controlled Direct Imprinting of Ag Ionic Ink: Flexible Metal Grid Transparent Conductors with Enhanced Electromechanical Durability. Scientific Reports, 2017, 7, 11220.	1.6	16
129	Mitigating the Trade-off between Triplet Harvesting and Roll-off by Opening a Dexter-Type Channel in OLEDs. Journal of Physical Chemistry C, 2019, 123, 18283-18293.	1.5	16
130	Naphthalene Benzimidazole Based Neutral Ir(III) Emitters for Deep Red Organic Light-Emitting Diodes. Inorganic Chemistry, 2020, 59, 12461-12470.	1.9	16
131	Toward Ultraâ€Efficient OLEDs: Approaches Based on Low Refractive Index Materials. Advanced Optical Materials, 2021, 9, 2002182.	3.6	16
132	Fullereneâ€Derivativeâ€Embedded Nanogap Fieldâ€Effectâ€Transistor and Its Nonvolatile Memory Application. Small, 2010, 6, 1617-1621.	5.2	15
133	Digitalâ€Mode Organic Vaporâ€Jet Printing (Dâ€OVJP): Advanced Jetâ€onâ€Demand Control of Organic Thinâ€Film Deposition. Advanced Materials, 2012, 24, 2857-2862.	11.1	15
134	Diffracted near field of hollow optical fibre for a novel atomic funnel. Journal of Optics B: Quantum and Semiclassical Optics, 1999, 1, 364-370.	1.4	14
135	Charge carrier dynamics in PffBT4T-2OD: PCBM organic solar cells. Organic Electronics, 2018, 62, 441-447.	1.4	14
136	Optimal flickering light stimulation for entraining gamma waves in the human brain. Scientific Reports, 2021, 11, 16206.	1.6	14
137	Towards highly efficient and highly transparent OLEDs: advanced considerations for emission zone coupled with capping layer design. Optics Express, 2015, 23, 27306.	1.7	13
138	Low-Voltage High-Performance Pentacene Thin-Film Transistors With Ultrathin PVP/High- $kappa$ HfLaO Hybrid Gate Dielectric. IEEE Electron Device Letters, 2010, , .	2.2	12
139	Nanogap Electrode Fabrication for a Nanoscale Device by Volumeâ€Expanding Electrochemical Synthesis. Small, 2011, 7, 2210-2216.	5.2	12
140	Improvement of the performance of inverted polymer solar cells with a fluorine-doped tin oxide electrode. Current Applied Physics, 2011, 11, S175-S178.	1.1	12
141	Photoactive Memory by a Si-Nanowire Field-Effect Transistor. ACS Nano, 2012, 6, 1449-1454.	7.3	12
142	Efficient organic photomemory with photography-ready programming speed. Scientific Reports, 2016, 6, 30536.	1.6	12
143	Simultaneously enhanced device efficiency, stabilized chromaticity of organic light emitting diodes with lambertian emission characteristic by random convex lenses. Nanotechnology, 2016, 27, 075202.	1.3	12
144	Columnar-Structured Low-Concentration Donor Molecules in Bulk Heterojunction Organic Solar Cells. ACS Omega, 2018, 3, 929-936.	1.6	12

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145	Organicâ€“Inorganic Hybrid Approach to Pulse Oximetry Sensors with Reliability and Low Power Consumption. ACS Photonics, 2021, 8, 3564-3572.	3.2	12
146	Ultralong persistent luminescence from carbon dots. Light: Science and Applications, 2022, 11, 132.	7.7	12
147	Polarizer-free, high-contrast inverted top-emitting organic light emitting diodes: effect of the electrode structure. Optics Express, 2012, 20, 1816.	1.7	11
148	Controlling the Threshold Voltage of Organic Thin-Film Transistors by Transition Metal Oxides. IEEE Electron Device Letters, 2013, 34, 1014-1016.	2.2	11
149	Polynorbornenes with pendant PCBM as an acceptor for OPVs: Ring-opening metathesis versus vinyl-addition polymerization. European Polymer Journal, 2014, 51, 37-44.	2.6	11
150	Photoinduced Memory with Hybrid Integration of an Organic Fullerene Derivative and an Inorganic Nanogapâ€Embedded Fieldâ€Effect Transistor for Lowâ€Voltage Operation. Advanced Materials, 2011, 23, 3326-3331.	11.1	10
151	Enhanced and balanced efficiency of white bi-directional organic light-emitting diodes. Optics Express, 2013, 21, 28040.	1.7	10
152	Effect of Laser-Induced Direct Micropatterning on Polymer Optoelectronic Devices. ACS Applied Materials & Interfaces, 2019, 11, 47143-47152.	4.0	10
153	Organic Sub-Bandgap Schottky Barrier Photodetectors with Near-Infrared Coherent Perfect Absorption. ACS Photonics, 2021, 8, 2618-2625.	3.2	10
154	High-Performance Pentacene Thin-Film Transistors Fabricated by Printing Technology. IEEE Electron Device Letters, 2011, 32, 1454-1456.	2.2	9
155	Straight-forward control of the degree of micro-cavity effects in organic light-emitting diodes based on a thin striped metal layer. Organic Electronics, 2013, 14, 2444-2450.	1.4	9
156	Transparent organic light-emitting diodes with different bi-directional emission colors using color-conversion capping layers. Journal of Luminescence, 2015, 162, 180-184.	1.5	9
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