Soon Ok Jeon

List of Publications by Year
in descending order

79 papers	3,007 citations	218381 26 h-index	168136 53 g-index
80 all docs	80 docs citations	80 times ranked	2187 citing authors

#	Article	IF	Citations
1	External Quantum Efficiency Above 20% in Deep Blue Phosphorescent Organic Lightâ€Emitting Diodes. Advanced Materials, 2011, 23, 1436-1441.	11.1	392
2	High-efficiency, long-lifetime deep-blue organic light-emitting diodes. Nature Photonics, 2021, 15, 208-215.	15.6	335
3	Phenylcarbazoleâ€Based Phosphine Oxide Host Materials For High Efficiency In Deep Blue Phosphorescent Organic Lightâ€Emitting Diodes. Advanced Functional Materials, 2009, 19, 3644-3649.	7.8	187
4	Highâ€Efficiency Deepâ€Blueâ€Phosphorescent Organic Lightâ€Emitting Diodes Using a Phosphine Oxide and a Phosphine Sulfide Highâ€Tripletâ€Energy Host Material with Bipolar Chargeâ€Transport Properties. Advanced Materials, 2010, 22, 1872-1876.	11.1	174
5	Phosphine oxide derivatives for organic light emitting diodes. Journal of Materials Chemistry, 2012, 22, 4233-4243.	6.7	153
6	Highly Efficient pâ€iâ€n and Tandem Organic Lightâ€Emitting Devices Using an Airâ€Stable and Lowâ€Temperatureâ€Evaporable Metal Azide as an nâ€Dopant. Advanced Functional Materials, 2010, 20, 1797-1802.	7.8	136
7	Fabrication and Efficiency Improvement of Soluble Blue Phosphorescent Organic Lightâ€Emitting Diodes Using a Multilayer Structure Based on an Alcoholâ€Soluble Blue Phosphorescent Emitting Layer. Advanced Materials, 2010, 22, 4479-4483.	11.1	126
8	An Alternative Host Material for Longâ€Lifespan Blue Organic Lightâ€Emitting Diodes Using Thermally Activated Delayed Fluorescence. Advanced Science, 2017, 4, 1600502.	5.6	103
9	Purely Spinâ€Vibronic Coupling Assisted Triplet to Singlet Upâ€Conversion for Real Deep Blue Organic Lightâ€Emitting Diodes with Over 20% Efficiency and y Color Coordinate of 0.05. Advanced Science, 2021, 8, e2101137.	5.6	81
10	Molecular Engineering of Blue Fluorescent Molecules Based on Silicon Endâ€Capped Diphenylaminofluorene Derivatives for Efficient Organic Lightâ€Emitting Materials. Advanced Functional Materials, 2010, 20, 1345-1358.	7.8	80
11	Comparison of symmetric and asymmetric bipolar type high triplet energy host materials for deep blue phosphorescent organic light-emitting diodes. Journal of Materials Chemistry, 2012, 22, 7239.	6.7	71
12	High efficiency deep blue phosphorescent organic light-emitting diodes. Organic Electronics, 2009, 10, 170-173.	1.4	68
13	Spinâ€"Vibronic Model for Quantitative Prediction of Reverse Intersystem Crossing Rate in Thermally Activated Delayed Fluorescence Systems. Journal of Chemical Theory and Computation, 2020, 16, 621-632.	2.3	53
14	Theoretical maximum quantum efficiency in red phosphorescent organic light-emitting diodes at a low doping concentration using a spirobenzofluorene type triplet host material. Organic Electronics, 2010, 11, 881-886.	1.4	51
15	The relationship between the substitution position of the diphenylphosphine oxide on the spirobifluorene and device performances of blue phosphorescent organic light-emitting diodes. Organic Electronics, 2010, 11, 1059-1065.	1.4	51
16	Multipleâ€Resonance Extension and Spinâ€Vibronicâ€Couplingâ€Based Narrowband Blue Organic Fluorescence Emitters with Over 30% Quantum Efficiency. Advanced Materials, 2022, 34, .	11.1	51
17	Three States Involving Vibronic Resonance is a Key to Enhancing Reverse Intersystem Crossing Dynamics of an Organoboron-Based Ultrapure Blue Emitter. Jacs Au, 2021, 1, 987-997.	3.6	48
18	tert-Butylated spirofluorene derivatives with arylamine groups for highly efficient blue organic light emitting diodes. Journal of Materials Chemistry, 2012, 22, 5145.	6.7	43

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19	A phosphine oxide derivative as a universal electron transport material for organic light-emitting diodes. Journal of Materials Chemistry, 2009, 19, 5940.	6.7	40
20	Color stability and suppressed efficiency roll-off in white organic light-emitting diodes through management of interlayer and host properties. Journal of Industrial and Engineering Chemistry, 2009, 15, 420-422.	2.9	36
21	A facile route for the preparation of organic bistable memory devices based on size-controlled conducting polypyrrole nanoparticles. Organic Electronics, 2013, 14, 979-983.	1.4	34
22	Highly efficient pure white phosphorescent organic light-emitting diodes using a deep blue phosphorescent emitting material. Organic Electronics, 2009, 10, 681-685.	1.4	32
23	New sulfone-based electron-transport materials with high triplet energy for highly efficient blue phosphorescent organic light-emitting diodes. Journal of Materials Chemistry C, 2014, 2, 10129-10137.	2.7	31
24	Organic bistable memory device using MoO3 nanocrystal as a charge trapping center. Organic Electronics, 2009, 10, 48-52.	1.4	29
25	Efficient hole injection by doping of hexaazatriphenylene hexacarbonitrile in hole transport layer. Thin Solid Films, 2009, 517, 6109-6111.	0.8	29
26	Highly Efficient Blue Organic Light-Emitting Diodes Based on 2-(Diphenylamino)fluoren-7-ylvinylarene Derivatives that Bear a tert-Butyl Group. Chemistry - A European Journal, 2011, 17, 12994-13006.	1.7	28
27	Fluorenobenzofuran as the core structure of high triplet energy host materials for green phosphorescent organic light-emitting diodes. Journal of Materials Chemistry, 2012, 22, 10537.	6.7	26
28	High efficiency pure white organic light-emitting diodes using a diphenylaminofluorene-based blue fluorescent material. Organic Electronics, 2009, 10, 1378-1381.	1.4	23
29	Red phosphorescent organic light-emitting diodes with indium tin oxide/single organic layer/Al simple device structure. Organic Electronics, 2010, 11, 36-40.	1.4	23
30	A high triplet energy phosphine oxide derivative as a host and exciton blocking material for blue phosphorescent organic light-emitting diodes. Thin Solid Films, 2010, 518, 3716-3720.	0.8	23
31	High efficiency red phosphorescent organic light-emitting diodes using a spirobenzofluorene type phosphine oxide as a host material. Organic Electronics, 2009, 10, 998-1000.	1.4	22
32	Dipole Momentâ€•and Molecular Orbitalâ€Engineered Phosphine Oxideâ€Free Host Materials for Efficient and Stable Blue Thermally Activated Delayed Fluorescence. Advanced Science, 2022, 9, e2102141.	5.6	21
33	Highly efficient single-layer phosphorescent white organic light-emitting diodes using a spirofluorene-based host material. Optics Letters, 2009, 34, 407.	1.7	19
34	Synthesis of fused phenylcarbazole phosphine oxide based high triplet energy host materials. Tetrahedron, 2010, 66, 7295-7301.	1.0	19
35	Lifetime study of red phosphorescent organic light-emitting diodes with a double doping structure. Journal of Industrial and Engineering Chemistry, 2010, 16, 813-815.	2.9	17
36	Effect of the Number and Substitution Pattern of Carbazole Donors on the Singlet and Triplet State Energies in a Series of Carbazole-Oxadiazole Derivatives Exhibiting Thermally Activated Delayed Fluorescence. Chemistry of Materials, 2018, 30, 6389-6399.	3.2	17

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37	Air stable and low temperature evaporable Li3N as a n type dopant in organic light-emitting diodes. Synthetic Metals, 2009, 159, 1664-1666.	2.1	16
38	Improved device performances in polymer light-emitting diodes using a stamp transfer printing process. Organic Electronics, 2009, 10, 372-375.	1.4	15
39	White organic light-emitting diodes using a quantum dot as a color changing material. Journal of Industrial and Engineering Chemistry, 2009, 15, 602-604.	2.9	15
40	Effect of Polarity of Small Molecule Interlayer Materials on the Open Circuit Voltage and Power Conversion Efficiency of Polymer Solar Cells. Journal of Physical Chemistry C, 2011, 115, 18789-18794.	1.5	14
41	Highly efficient blue light-emitting diodes containing spirofluorene derivatives end-capped with triphenylamine/phenylcarbazole. Synthetic Metals, 2011, 161, 2024-2030.	2.1	14
42	An excited state managing molecular design platform of blue thermally activated delayed fluorescence emitters by Ï€-linker engineering. Journal of Materials Chemistry C, 2020, 8, 1736-1745.	2.7	14
43	Spiro[fluorene-7,9â€²-benzofluorene] host and dopant materials for blue light-emitting electroluminescence device. Synthetic Metals, 2009, 159, 1147-1152.	2.1	13
44	Small molecule based mixed interlayer for color control of solution processed multilayer white polymer light-emitting diodes. Organic Electronics, 2010, 11, 184-187.	1.4	13
45	Fabrication of high efficiency and color stable white organic light-emitting diodes by an alignment free mask patterning. Organic Electronics, 2009, 10, 384-387.	1.4	12
46	Improved efficiency in organic solar cells through fluorinated interlayer induced crystallization. Organic Electronics, 2009, 10, 1583-1589.	1.4	12
47	Stable efficiency roll-off in red phosphorescent organic light-emitting diodes using a spirofluoreneâ€“benzofluorene based carbazole type host material. Journal of Luminescence, 2010, 130, 2184-2187.	1.5	12
48	Pyridine substituted spirofluorene derivative as an electron transport material for high efficiency in blue organic light-emitting diodes. Thin Solid Films, 2010, 519, 890-893.	0.8	12
49	Above 20% external quantum efficiency in green and white phosphorescent organic light-emitting diodes using an electron transport type green host material. Organic Electronics, 2011, 12, 1893-1898.	1.4	12
50	Simple high efficiency red phosphorescent organic light-emitting diodes without LiF electron injection layer. Journal Physics D: Applied Physics, 2009, 42, 225103.	1.3	10
51	Organic light emitting bistable memory device with Cs doped electron transport layer. Journal of Industrial and Engineering Chemistry, 2009, 15, 328-330.	2.9	10
52	Solution Processed Blue Phosphorescent Organic Light Emitting Diodes Using a Phosphine Oxide Host Material. Electrochemical and Solid-State Letters, 2010, 13, J71.	2.2	10
53	Multilayer stacked white polymer light-emitting diodes. Journal Physics D: Applied Physics, 2009, 42, 105115.	1.3	9
54	More than 25,000Âh device lifetime in blue phosphorescent organic light-emitting diodes via fast triplet up-conversion of n-type hosts with sub Î¼s triplet exciton lifetime. Chemical Engineering Journal, 2022, 450, 137974.	6.6	9

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55	Improved efficiency in solution processed green phosphorescent organic light-emitting diodes using a double layer emitting structure fabricated by a stamp transfer printing process. Organic Electronics, 2009, 10, 978-981.	1.4	8
56	Hole injection improvement by doping of organic material in copper phthalocyanine. Journal of Industrial and Engineering Chemistry, 2009, 15, 907-909.	2.9	7
57	High efficiency phosphorescent white organic light-emitting diodes using a spirofluorene based phosphine oxide host material. Thin Solid Films, 2010, 518, 4462-4466.	0.8	7
58	Red phosphorescent organic light-emitting diodes using pyridine based electron transport type triplet host materials. Materials Chemistry and Physics, 2011, 127, 300-304.	2.0	7
59	A Novel Design Strategy for Suppressing Efficiency Roll-Off of Blue Thermally Activated Delayed Fluorescence Molecules through Donorâ€"Acceptor Interlocking by Câ€"C Bonds. Nanomaterials, 2019, 9, 1735.	1.9	7
60	Cohosts with efficient host-to-emitter energy transfer for stable blue phosphorescent organic light-emitting diodes. Journal of Materials Chemistry C, 2021, 9, 17412-17418.	2.7	7
61	Designing Stable Deepâ€Blue Thermally Activated Delayed Fluorescence Emitters through Controlling the Intrinsic Stability of Triplet Excitons. Advanced Optical Materials, 2022, 10, .	3.6	7
62	Pure white phosphorescent organic light-emitting diodes using a phosphine oxide derivative as a high triplet energy host material. Thin Solid Films, 2010, 518, 5827-5831.	0.8	6
63	Efficiency improvement of polymer light-emitting diodes using a quantum dot interlayer between a hole transport layer and an emitting layer. Synthetic Metals, 2010, 160, 39-41.	2.1	6
64	Thermally Stable Organic Solar Cells Using Small Molecule Exciton Blocking Layer. Electrochemical and Solid-State Letters, 2011, 14, B59.	2.2	6
65	Improved efficiency of inverted organic solar cells using organic hole collecting interlayer. Journal of Industrial and Engineering Chemistry, 2012, 18, 661-663.	2.9	6
66	High-efficiency blue organic light-emitting Diodes using emissive carbazole-triazine-based donor-acceptor molecules with high reverse intersystem crossing rates. Organic Electronics, 2019, 75, 105399.	1.4	6
67	Low driving voltage in white organic light-emitting diodes using an interfacial energy barrier free multilayer emitting structure. Journal of Luminescence, 2009, 129, 937-940.	1.5	5
68	Effect of host and interlayer structures on device performances of hybrid white organic light-emitting diodes. Journal of Luminescence, 2010, 130, 1211-1215.	1.5	5
69	An ethylcarbazole based phosphine oxide derivative as a host for deep blue phosphorescent organic light-emitting diode. Journal of Luminescence, 2010, 130, 2238-2241.	1.5	5
70	Origin of bistability in polyfluorene-based organic bistable devices. Synthetic Metals, 2009, 159, 1809-1811.	2.1	4
71	Bistability and improved hole injection in organic bistable light-emitting diodes using a quantum dot embedded hole transport layer. Synthetic Metals, 2010, 160, 1216-1218.	2.1	4
72	Relationship between the particle size of quantum dots and bistability of the quantum dot embedded organic memory devices. Journal of Industrial and Engineering Chemistry, 2011, 17, 105-108.	2.9	4

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73	High Efficiency Organic Bistable Light-Emitting Diodes with Little Efficiency Roll-Off. Electrochemical and Solid-State Letters, 2011, 14, J31-J33.	2.2	4
74	High efficiency blue phosphorescent organic light-emitting diodes without electron transport layer. Journal of Luminescence, 2011, 131, 1621-1624.	1.5	1
75	Holistic Approach to the Mechanism Study of Thermal Degradation of Organic Light-Emitting Diode Materials. Journal of Physical Chemistry A, 2020, 124, 9589-9596.	1.1	1
76	Color stable and interlayer free hybrid white organic light-emitting diodes using an area divided pixel structure. Synthetic Metals, 2009, 159, 1778-1781.	2.1	0
77	Efficient hole injection in organic light-emitting diodes using polyvinylidenefluoride as an interlayer. Journal of Luminescence, 2010, 130, 1708-1710.	1.5	0
78	Improved Device Performances of Organic Solar Cells with Au Cathode Using a Phosphine Sulfide Type Cathode Modification Layer. Electrochemical and Solid-State Letters, 2011, 14, B93.	2.2	0
79	20â€2: Invited Paper: Highâ€Efficiency, Longâ€Lifetime, Deepâ€Blue Organic Lightâ€Emitting Diodes. Digest of Technical Papers SID International Symposium, 2021, 52, 243-244.	0.1	0