

Hisahiro Sasabe

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162
papers

9,114
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179
ext. papers

9,903
ext. citations

7.4
avg, IF

6.45
L-index

#	Paper	IF	Citations
162	Development of high performance OLEDs for general lighting. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 1699	7.1	532
161	High-efficiency blue and white organic light-emitting devices incorporating a blue iridium carbene complex. <i>Advanced Materials</i> , 2010 , 22, 5003-7	24	469
160	Pyridine-Containing Bipolar Host Materials for Highly Efficient Blue Phosphorescent OLEDs. <i>Chemistry of Materials</i> , 2008 , 20, 1691-1693	9.6	461
159	Multifunctional Materials in High-Performance OLEDs: Challenges for Solid-State Lighting□ <i>Chemistry of Materials</i> , 2011 , 23, 621-630	9.6	447
158	Ultra High Efficiency Green Organic Light-Emitting Devices. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, L10-L12	1.4	324
157	Low-driving-voltage blue phosphorescent organic light-emitting devices with external quantum efficiency of 30%. <i>Advanced Materials</i> , 2014 , 26, 5062-6	24	268
156	A systematic study on efficiency enhancements in phosphorescent green, red and blue microcavity organic light emitting devices. <i>Light: Science and Applications</i> , 2013 , 2, e74-e74	16.7	236
155	Bisanthracene-Based Donor-Acceptor-type Light-Emitting Dopants: Highly Efficient Deep-Blue Emission in Organic Light-Emitting Devices. <i>Advanced Functional Materials</i> , 2014 , 24, 2064-2071	15.6	233
154	Solution-processed multilayer small-molecule light-emitting devices with high-efficiency white-light emission. <i>Nature Communications</i> , 2014 , 5, 5756	17.4	229
153	Wide-Energy-Gap Electron-Transport Materials Containing 3,5-Dipyridylphenyl Moieties for an Ultra High Efficiency Blue Organic Light-Emitting Device. <i>Chemistry of Materials</i> , 2008 , 20, 5951-5953	9.6	222
152	Recent Progress in Phosphorescent Organic Light-Emitting Devices. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 7653-7663	3.2	205
151	High-Performance Green OLEDs Using Thermally Activated Delayed Fluorescence with a Power Efficiency of over 100 lm W ⁻¹ . <i>Advanced Materials</i> , 2016 , 28, 2638-43	24	203
150	High-performance blue phosphorescent OLEDs using energy transfer from exciplex. <i>Advanced Materials</i> , 2014 , 26, 1612-6	24	201
149	3,3RbCarbazole-based host materials for high-efficiency blue phosphorescent OLEDs with extremely low driving voltage. <i>Advanced Materials</i> , 2012 , 24, 3212-7	24	173
148	Squaraine dyes for organic photovoltaic cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14517-14534	13	167
147	Tuning energy levels of electron-transport materials by nitrogen orientation for electrophosphorescent devices with an RdecalRoperating voltage. <i>Advanced Materials</i> , 2010 , 22, 3311-6	24	154
146	Co-evaporated bulk heterojunction solar cells with >6.0% efficiency. <i>Advanced Materials</i> , 2012 , 24, 2768-73	24	143

145	Extremely Low Operating Voltage Green Phosphorescent Organic Light-Emitting Devices. <i>Advanced Functional Materials</i> , 2013 , 23, 5550-5555	15.6	135
144	Light-blue thermally activated delayed fluorescent emitters realizing a high external quantum efficiency of 25% and unprecedented low drive voltages in OLEDs. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2274-2278	7.1	132
143	Molecular Stacking Induced by Intermolecular C-H...N Hydrogen Bonds Leading to High Carrier Mobility in Vacuum-Deposited Organic Films. <i>Advanced Functional Materials</i> , 2011 , 21, 1375-1382	15.6	130
142	Ultra-high efficiency by multiple emission from stacked organic light-emitting devices. <i>Organic Electronics</i> , 2011 , 12, 710-715	3.5	127
141	Optimizing the charge balance of fluorescent organic light-emitting devices to achieve high external quantum efficiency beyond the conventional upper limit. <i>Advanced Materials</i> , 2012 , 24, 1765-70 ²⁴		126
140	Horizontally Orientated Sticklike Emitters: Enhancement of Intrinsic Out-Coupling Factor and Electroluminescence Performance. <i>Chemistry of Materials</i> , 2017 , 29, 8630-8636	9.6	119
139	Influence of Substituted Pyridine Rings on Physical Properties and Electron Mobilities of 2-Methylpyrimidine Skeleton-Based Electron Transporters. <i>Advanced Functional Materials</i> , 2011 , 21, 336-342	15.6	118
138	2-Phenylpyrimidine skeleton-based electron-transport materials for extremely efficient green organic light-emitting devices. <i>Chemical Communications</i> , 2008 , 5821-3	5.8	117
137	Novel four-pyridylbenzene-armed biphenyls as electron-transport materials for phosphorescent OLEDs. <i>Organic Letters</i> , 2008 , 10, 941-4	6.2	115
136	High-performance pure blue phosphorescent OLED using a novel bis-heteroleptic iridium(III) complex with fluorinated bipyridyl ligands. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 1070	7.1	114
135	Highly Efficient Organic Blue-and White-Light-Emitting Devices Having a Carrier- and Exciton-Confining Structure for Reduced Efficiency Roll-Off. <i>Advanced Materials</i> , 2008 , 20, NA-NA	24	114
134	A m-Terphenyl-Modified Sulfone Derivative as a Host Material for High-Efficiency Blue and Green Phosphorescent OLEDs. <i>Chemistry of Materials</i> , 2012 , 24, 1404-1406	9.6	107
133	Blue thermally activated delayed fluorescence materials based on bis(phenylsulfonyl)benzene derivatives. <i>Chemical Communications</i> , 2015 , 51, 16353-6	5.8	97
132	A Series of Squaraine Dyes: Effects of Side Chain and the Number of Hydroxyl Groups on Material Properties and Photovoltaic Performance. <i>Chemistry of Materials</i> , 2014 , 26, 1356-1364	9.6	97
131	Simultaneous Realization of High EQE of 30%, Low Drive Voltage, and Low Efficiency Roll-Off at High Brightness in Blue Phosphorescent OLEDs. <i>Advanced Optical Materials</i> , 2016 , 4, 86-90	8.1	96
130	m-Terphenyl-modified carbazole host material for highly efficient blue and green PHOLEDs. <i>Chemical Communications</i> , 2009 , 6655-7	5.8	82
129	Manipulating the Electronic Excited State Energies of Pyrimidine-Based Thermally Activated Delayed Fluorescence Emitters To Realize Efficient Deep-Blue Emission. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4742-4749	9.5	80
128	High-efficiency red, green and blue phosphorescent homojunction organic light-emitting diodes based on bipolar host materials. <i>Organic Electronics</i> , 2011 , 12, 843-850	3.5	78

127	J-aggregation of a squaraine dye and its application in organic photovoltaic cells. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 6547	7.1	75
126	Instant low-temperature cross-linking of poly(N-vinylcarbazole) for solution-processed multilayer blue phosphorescent organic light-emitting devices. <i>Advanced Materials</i> , 2014 , 26, 7543-6	24	74
125	Photoinduced Electron-Transfer Processes between [C60]Fullerene and Triphenylamine Moieties Tethered by Rotaxane Structures. Through-Space Electron Transfer via Excited Triplet States of [60]Fullerene. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 5145-5155	2.8	72
124	Solution-processed organic photovoltaic cells based on a squaraine dye. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 14661-6	3.6	61
123	Review of Molecular Engineering for Horizontal Molecular Orientation in Organic Light-Emitting Devices. <i>Bulletin of the Chemical Society of Japan</i> , 2019 , 92, 716-728	5.1	59
122	Ultra high-efficiency multi-photon emission blue phosphorescent OLEDs with external quantum efficiency exceeding 40%. <i>Organic Electronics</i> , 2012 , 13, 2615-2619	3.5	59
121	Highly efficient, deep-red organic light-emitting devices using energy transfer from exciplexes. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 527-530	7.1	58
120	Achieving 20% Efficiency for Low-Temperature-Processed Inverted Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1807556	15.6	57
119	Significant Enhancement of Blue OLED Performances through Molecular Engineering of Pyrimidine-Based Emitter. <i>Advanced Optical Materials</i> , 2017 , 5, 1600843	8.1	54
118	Solution-processed inorganic-organic hybrid electron injection layer for polymer light-emitting devices. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 6104-8	9.5	54
117	Synthesis of [2]- and [3]Rotaxanes by an End-Capping Approach Utilizing Urethane Formation. <i>Bulletin of the Chemical Society of Japan</i> , 2004 , 77, 179-185	5.1	52
116	Low-Band-Gap Small Molecule for Efficient Organic Solar Cells with a Low Energy Loss below 0.6 eV and a High Open-Circuit Voltage of over 0.9 V. <i>ACS Energy Letters</i> , 2017 , 2, 2021-2025	20.1	51
115	End-capping of a pseudorotaxane via Diels-Alder reaction for the construction of C60-terminated [2]rotaxanes. <i>Organic Letters</i> , 2004 , 6, 3957-60	6.2	51
114	High efficiency solution processed OLEDs using a thermally activated delayed fluorescence emitter. <i>Synthetic Metals</i> , 2015 , 202, 165-168	3.6	48
113	Thermally cross-linkable host materials for enabling solution-processed multilayer stacks in organic light-emitting devices. <i>Organic Electronics</i> , 2013 , 14, 1614-1620	3.5	48
112	Recent progress of pyrimidine derivatives for high-performance organic light-emitting devices. <i>Journal of Photonics for Energy</i> , 2018 , 8, 1	1.2	47
111	Optical and electrical properties of a squaraine dye in photovoltaic cells. <i>Applied Physics Letters</i> , 2012 , 101, 083904	3.4	46
110	A single-molecule excimer-emitting compound for highly efficient fluorescent organic light-emitting devices. <i>Chemical Communications</i> , 2012 , 48, 8434-6	5.8	45

109	Excimer-emitting single molecules with stacked π -conjugated groups covalently linked at the 1,8-positions of naphthalene for highly efficient blue and green OLEDs. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 3871	7.1	45
108	Control of Molecular Orientation in Organic Semiconductor Films using Weak Hydrogen Bonds. <i>Advanced Materials</i> , 2019 , 31, e1808300	24	43
107	A minimal non-radiative recombination loss for efficient non-fullerene all-small-molecule organic solar cells with a low energy loss of 0.54 eV and high open-circuit voltage of 1.15 V. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13918-13924	13	42
106	An π -Carboline-containing Host Material for High-efficiency Blue and Green Phosphorescent OLEDs. <i>Chemistry Letters</i> , 2011 , 40, 306-308	1.7	41
105	Synthesis, properties, and OLED characteristics of 2,2'-bipyridine-based electron-transport materials: the synergistic effect of molecular shape anisotropy and a weak hydrogen-bonding network on molecular orientation. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 3699-3704	7.1	37
104	Solution-processed organic light-emitting devices with two polymer light-emitting units connected in series by a charge-generation layer. <i>Journal of Materials Chemistry</i> , 2012 , 22, 22769		35
103	Asymmetrical Squaraines Bearing Fluorine-Substituted Indoline Moieties for High-Performance Solution-Processed Small-Molecule Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 13675-84	9.5	33
102	Solution-processable carbazole-based host materials for phosphorescent organic light-emitting devices. <i>Organic Electronics</i> , 2012 , 13, 2235-2242	3.5	33
101	A Series of Imidazo[1,2-f]phenanthridine-Based Sky-Blue TADF Emitters Realizing EQE of over 20%. <i>Advanced Optical Materials</i> , 2019 , 7, 1801282	8.1	33
100	Simultaneous Manipulation of Intramolecular and Intermolecular Hydrogen Bonds in n-Type Organic Semiconductor Layers: Realization of Horizontal Orientation in OLEDs. <i>Advanced Optical Materials</i> , 2015 , 3, 769-773	8.1	32
99	Cyano-substitution on the end-capping group: facile access toward asymmetrical squaraine showing strong dipole-dipole interactions as a high performance small molecular organic solar cells material. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 17704-17712	13	32
98	A Series of Dibenzofuran-Based n-Type Exciplex Host Partners Realizing High-Efficiency and Stable Deep-Red Phosphorescent OLEDs. <i>Chemistry - A European Journal</i> , 2019 , 25, 7308-7314	4.8	30
97	High performance semitransparent phosphorescent white organic light emitting diodes with bi-directional and symmetrical illumination. <i>Applied Physics Letters</i> , 2013 , 102, 153308	3.4	29
96	Efficient synthesis of [2]- and higher order rotaxanes via the transition metal-catalyzed hydrosilylation of alkyne. <i>Tetrahedron Letters</i> , 2005 , 46, 3851-3853	2	29
95	An effective π -extended squaraine for solution-processed organic solar cells with high efficiency. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18931-18941	13	28
94	A series of fluorinated phenylpyridine-based electron-transporters for blue phosphorescent OLEDs. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 1104-1110	7.1	27
93	A Novel Sterically Bulky Hole Transporter to Remarkably Improve the Lifetime of Thermally Activated Delayed Fluorescent OLEDs at High Brightness. <i>Chemistry - A European Journal</i> , 2018 , 24, 4590-4596	4.8	27
92	Soluble squaraine derivatives for 4.9% efficient organic photovoltaic cells. <i>RSC Advances</i> , 2014 , 4, 42804-42807	3.7	26

91	Highly Luminescent π -Conjugated Terpyridine Derivatives Exhibiting Thermally Activated Delayed Fluorescence. <i>Chemistry - A European Journal</i> , 2017 , 23, 114-119	4.8	24
90	Unlocking the Potential of Pyrimidine Conjugate Emitters to Realize High-Performance Organic Light-Emitting Devices. <i>Advanced Optical Materials</i> , 2017 , 5, 1600675	8.1	24
89	Synthesis of poly[2]rotaxane by Sonogashira polycondensation. <i>Journal of Polymer Science Part A</i> , 2007 , 45, 4154-4160	2.5	24
88	Fundamental functions of peripheral and core pyridine rings in a series of bis-terpyridine derivatives for high-performance organic light-emitting devices. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 8980-8988	7.1	23
87	Colorful Squaraines Dyes for Efficient Solution-Processed All Small-Molecule Semitransparent Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 26465-26472	9.5	23
86	fac-Tris(2-phenylpyridine)iridium (III)s, covalently surrounded by six bulky host dendrons, for a highly efficient solution-processed organic light emitting device. <i>Organic Electronics</i> , 2011 , 12, 2103-2110	10.5	22
85	Axle charge effects on photoinduced electron transfer processes in rotaxanes containing porphyrin and [60]fullerene. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 10908-15	3.6	22
84	High Power Efficiency Blue-to-Green Organic Light-Emitting Diodes Using Isonicotinonitrile-Based Fluorescent Emitters. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 648-654	4.5	21
83	Axle length effect on photoinduced electron transfer in triad rotaxane with porphyrin, [60]fullerene, and triphenylamine. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 5242-50	2.8	21
82	Highly Efficient Green Phosphorescent OLED Based on Pyridine-containing Starburst Electron-transporting Materials. <i>Chemistry Letters</i> , 2010 , 39, 140-141	1.7	21
81	Photoinduced Electron Transfer Processes in Rotaxanes Containing [60]Fullerene and Ferrocene: Effect of Axle Charge on Light-Induced Molecular Motion. <i>Australian Journal of Chemistry</i> , 2006 , 59, 186	1.2	21
80	Ultrahigh Power Efficiency Thermally Activated Delayed Fluorescent OLEDs by the Strategic Use of Electron-Transport Materials. <i>Advanced Optical Materials</i> , 2018 , 6, 1800376	8.1	20
79	The effect of processing solvent dependent film aggregation on the photovoltaic performance of squaraine:PC71BM bulk heterojunction solar cells. <i>Organic Electronics</i> , 2017 , 51, 62-69	3.5	20
78	Photoinduced electron transfer processes of fullerene rotaxanes containing various electron-donors. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2010 , 11, 73-92	16.4	20
77	Central dicyanomethylene-substituted unsymmetrical squaraines and their application in organic solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5797-5806	13	19
76	Photoinduced electron transfer processes in three component rotaxanes with porphyrins, [60]fullerene and triphenylamine. <i>Journal of Porphyrins and Phthalocyanines</i> , 2006 , 10, 1346-1359	1.8	19
75	Facile synthesis of multi-resonance ultra-pure-green TADF emitters based on bridged diarylamine derivatives for efficient OLEDs with narrow emission. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 8308-8313	7.1	19
74	A squaraine dye as molecular sensitizer for increasing light harvesting in polymer solar cells. <i>Synthetic Metals</i> , 2014 , 192, 10-14	3.6	17

73	Synthesis of [60]fullerene-functionalized rotaxanes. <i>Tetrahedron</i> , 2006 , 62, 1988-1997	2.4	17
72	Diastereotopic relationship between planar and central chiralities in the formation of Ru(β -allyl)(CO)(PPh ₃)(L π) complexes. <i>Inorganic Chemistry Communication</i> , 2003 , 6, 1140-1143	3.1	17
71	High fill factor and thermal stability of bilayer organic photovoltaic cells with an inverted structure. <i>Applied Physics Letters</i> , 2015 , 106, 053305	3.4	16
70	Chloroboron (III) subnaphthalocyanine as an electron donor in bulk heterojunction photovoltaic cells. <i>Nanotechnology</i> , 2013 , 24, 484007	3.4	16
69	Rotaxane Synthesized by End-capping via Hydro-ruthenation of Axle Terminal Acetylene and Its Derivation to β -Allylruthenium Complex-containing Rotaxane. <i>Chemistry Letters</i> , 2006 , 35, 212-213	1.7	16
68	Preparation of Ru(β -2-alkenylallyl)(CO)Cl(PPh ₃) ₂ complexes via carbometallation of allenes with alkenyl ruthenium complexes. <i>Inorganic Chemistry Communication</i> , 2002 , 5, 177-180	3.1	16
67	Photoinduced electron and energy transfer processes in rotaxanes containing zinc porphyrin as pendant and [60]fullerene and ferrocene as axle ends. <i>Journal of Porphyrins and Phthalocyanines</i> , 2005 , 09, 724-734	1.8	16
66	Effect of substituents in a series of carbazole-based host-materials toward high-efficiency carbene-based blue OLEDs. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 9476-9481	7.1	15
65	Introduction of Twisted Backbone: A New Strategy to Achieve Efficient Blue Fluorescence Emitter with Delayed Emission. <i>Advanced Optical Materials</i> , 2017 , 5, 1700334	8.1	15
64	Esterification of Indoline-Based Small-Molecule Donors for Efficient Co-evaporated Organic Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 14785-14794	3.8	14
63	Lithium Phenolate Complexes with a Pyridine-Containing Polymer for Solution-Processable Electron Injection Layers in PLEDs. <i>Advanced Functional Materials</i> , 2014 , 24, 6038-6045	15.6	14
62	Multilayered Organic Light-Emitting Devices by Solution-Process. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2013 , 26, 403-410	0.7	14
61	Efficient Low-Driving-Voltage Blue Phosphorescent Homojunction Organic Light-Emitting Devices. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 040204	1.4	14
60	Design and construction of photoinduced electron transfer systems based on [60]fullerene and porphyrin-containing [2]rotaxanes. <i>Journal of Porphyrins and Phthalocyanines</i> , 2007 , 11, 334-341	1.8	14
59	Precise Evaluation of Angstrom-Ordered Mixed Interfaces in Solution-Processed OLEDs by Neutron Reflectometry. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1400097	4.6	13
58	Unique Solid-State Emission Behavior of Aromatic Difluoroboronated β -Diketones as an Emitter in Organic Light-Emitting Devices. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 2299-2303	4.5	13
57	Unsymmetrical squaraines with new linkage manner for high-performance solution-processed small-molecule organic photovoltaic cells. <i>RSC Advances</i> , 2016 , 6, 1877-1884	3.7	12
56	Phenanthroline Derivatives for Electron-transport Layer in Organic Light-emitting Devices. <i>Chemistry Letters</i> , 2009 , 38, 712-713	1.7	12

55	A sky blue thermally activated delayed fluorescence emitter to achieve efficient white light emission through in situ metal complex formation. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 3146-3149	7.1	11
54	Molecular Orientations of Delayed Fluorescent Emitters in a Series of Carbazole-Based Host Materials. <i>Frontiers in Chemistry</i> , 2020 , 8, 427	5	11
53	Simultaneous realization of high-efficiency, low-drive voltage, and long lifetime TADF OLEDs by multifunctional hole-transporters. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 7200-7210	7.1	11
52	Room-Temperature Phosphorescence from a Series of 3-Pyridylcarbazole Derivatives. <i>Chemistry - A European Journal</i> , 2019 , 25, 16294-16300	4.8	11
51	Two different donor subunits substituted unsymmetrical squaraines for solution-processed small molecule organic solar cells. <i>Organic Electronics</i> , 2016 , 32, 179-186	3.5	11
50	Novel Blue Exciplex Comprising Acridine and Sulfone Derivatives as a Host Material for High-efficiency Blue Phosphorescent OLEDs. <i>Chemistry Letters</i> , 2016 , 45, 283-285	1.7	10
49	Facile Routes to Ru(β -Allyl)(NO)(PPh ₃) ₂ Complexes via Hydrometallation of RuH(NO)(PPh ₃) ₃ to 1,3-Butadienes and Allenes. <i>Chemistry Letters</i> , 2000 , 29, 1058-1059	1.7	10
48	Improved operational lifetime of deep-red phosphorescent organic light-emitting diodes using a benzothienobenzothiophene (BTBT)-based p-type host material. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 1215-1220	7.1	9
47	Rubrene-based interfacial engineering toward enhanced performance in inverted polymer solar cells. <i>Organic Electronics</i> , 2017 , 50, 191-197	3.5	8
46	A Series of Lithium Pyridyl Phenolate Complexes with a Pendant Pyridyl Group for Electron-Injection Layers in Organic Light-Emitting Devices. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 40541-40548	9.5	8
45	9,10-Bis(bipyridyl, pyridylphenyl, phenylpyridyl, and biphenyl)anthracenes Combining High Electron Transport and Injection, Efficiency and Stability in Fluorescent Organic Light-emitting Devices. <i>Chemistry Letters</i> , 2011 , 40, 1092-1094	1.7	8
44	Extended Carbazole Derivatives as Host Materials for Highly Efficient and Long-Life Green Phosphorescent Organic Light-Emitting Diodes. <i>Chemistry - A European Journal</i> , 2021 , 27, 4971-4976	4.8	8
43	Comparison of the Solution and Vacuum-Processed Squaraine:Fullerene Small-Molecule Bulk Heterojunction Solar Cells. <i>Frontiers in Chemistry</i> , 2018 , 6, 412	5	8
42	A Donor-Acceptor-type Host Material for Solution-processed Phosphorescent Organic Light-emitting Devices Showing High Efficiency. <i>Chemistry Letters</i> , 2014 , 43, 1935-1936	1.7	7
41	Electron Injection and Transport Properties of Phenazine Compounds with Fused Rings. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 01AB11	1.4	6
40	Asymmetric Spirobiacridine-based Delayed Fluorescence Emitters for High-performance Organic Light-Emitting Devices. <i>Chemistry - A European Journal</i> , 2021 , 27, 10869-10874	4.8	6
39	S-Vinyl Sulfide-Derived Pendant-Type Sulfone/Phenoxazine-Based Polymers Exhibiting Thermally Activated Delayed Fluorescence: Synthesis and Photophysical Property Characterization. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 3310-3318	4.3	5
38	Current Status of OLED Material and Process Technologies for Display and Lighting 2018 ,		4

37	Highly stable and efficient deep-red phosphorescent organic light-emitting devices using a phenanthroline derivative as an n-type exciplex host partner. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 2073-2079	7.1	4
36	Efficient Low-Driving-Voltage Blue Phosphorescent Homojunction Organic Light-Emitting Devices. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 040204	1.4	4
35	A novel ED1-A-D2 type low bandgap squaraine dye for efficient small molecular organic solar cells. <i>Dyes and Pigments</i> , 2019 , 163, 564-572	4.6	4
34	Effects of different types of unsymmetrical squaraines on the material properties and Coulomb interactions in organic photovoltaic devices. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 2116-2123	7.8	4
33	Chrysene-based Electron-transporters Realizing Highly Efficient and Stable Phosphorescent OLEDs. <i>Chemistry Letters</i> , 2019 , 48, 457-460	1.7	3
32	High-Efficiency Sky Blue-To-Green Fluorescent Emitters Based on 3-Pyridinecarbonitrile Derivatives. <i>Frontiers in Chemistry</i> , 2019 , 7, 254	5	3
31	Elucidating the impact of N-arylanilino substituents of squaraines on their photovoltaic performances. <i>Organic Electronics</i> , 2019 , 66, 188-194	3.5	3
30	Novel Series of Mononuclear Aluminum Complexes for High-Performance Solution-Processed Organic Light-Emitting Devices. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6036-6041	16.4	3
29	P-174: Improved Operation Lifetime of Highly Efficient Sky-Blue TADF OLEDs using Hexaphenylbenzene-based Hole-transporters. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 1889-1890	0.5	2
28	Organic Light-Emitting Devices: Instant Low-Temperature Cross-Linking of Poly(N-vinylcarbazole) for Solution-Processed Multilayer Blue Phosphorescent Organic Light-Emitting Devices (Adv. Mater. 45/2014). <i>Advanced Materials</i> , 2014 , 26, 7675-7675	24	2
27	A terpyridine-modified chrysene derivative as an electron transporter to improve the lifetime in phosphorescent OLEDs. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 3200-3205	7.1	2
26	Bis(Triphenylamine)Benzodifuran Chromophores: Synthesis, Electronic Properties and Application in Organic Light-Emitting Diodes. <i>Frontiers in Chemistry</i> , 2021 , 9, 721272	5	2
25	Novel Series of Mononuclear Aluminum Complexes for High-Performance Solution-Processed Organic Light-Emitting Devices. <i>Angewandte Chemie</i> , 2021 , 133, 6101-6106	3.6	2
24	P-192: Efficient Deep Red Phosphorescent OLEDs with an EL Emission Peak of 670 nm. <i>Digest of Technical Papers SID International Symposium</i> , 2017 , 48, 1991-1992	0.5	1
23	P-172: Novel Sterically Bulky Hole-Transporters Realizing Enhanced Operation Lifetime in TADF OLEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 1884-1885	0.5	1
22	A Series of Dibenzofuran-Based n-Type Exciplex Host Partners Realizing High-Efficiency and Stable Deep-Red Phosphorescent OLEDs. <i>Chemistry - A European Journal</i> , 2019 , 25, 7231-7231	4.8	1
21	Perovskite Solar Cells: Achieving 20% Efficiency for Low-Temperature-Processed Inverted Perovskite Solar Cells (Adv. Funct. Mater. 12/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970074	15.6	1
20	Low Molecular Weight Materials: Electron-Transport Materials 2019 , 1-10		1

19	DBP and C70 based inverted tandem solar cells using a simple interconnecting layer. <i>RSC Advances</i> , 2017 , 7, 34664-34668	3.7	1
18	Syntheses of Solution-Processable Arylamine Derivatives and Their Application to Organic Light Emitting Devices. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2012 , 25, 335-339	0.7	1
17	Extremely High Power Efficiency Solution-Processed Orange-Red TADF OLEDs via a Synergistic Strategy of Molecular and Device Engineering. <i>Advanced Optical Materials</i> , 2102774	8.1	1
16	Controlling the electronic structures of triphenylene based sky blue TADF emitters by chemical modifications for high efficiency with shorter emission lifetimes. <i>Chemical Engineering Journal</i> , 2022 , 435, 134925	14.7	1
15	Dibenzothiophene/Terpyridine Conjugated Asymmetric Electron-Transporters for High-efficiency and Long-life Green Phosphorescent OLEDs. <i>Chemistry Letters</i> , 2021 , 50, 534-537	1.7	1
14	A Novel Series of Thermally and Electrically Stable Hole-transporters End-capped by [1]Benzothieno[3,2-b][1]benzothiophenes for Organic Light-emitting Devices. <i>Chemistry Letters</i> , 2019 , 48, 219-222	1.7	1
13	Spirobiacridine-based Host Material for Highly Efficient Blue Phosphorescent Organic Light-emitting Devices. <i>Chemistry Letters</i> , 2020 , 49, 228-231	1.7	1
12	Constructing Soluble Anthracene-Based Blue Emitters Free of Electrically Inert Alkyl Chains for Efficient Evaporation- and Solution-Based OLEDs.. <i>ChemPlusChem</i> , 2022 , e202100517	2.8	0
11	P-191: Realizing Deep-Blue TADF Emission with CIE of (0.16, 0.15) using a Highly Twisted Acceptor Unit. <i>Digest of Technical Papers SID International Symposium</i> , 2017 , 48, 1989-1990	0.5	
10	Molecular Orientation: Control of Molecular Orientation in Organic Semiconductor Films using Weak Hydrogen Bonds (Adv. Mater. 18/2019). <i>Advanced Materials</i> , 2019 , 31, 1970131	24	
9	Photochemistry: A Series of Imidazo[1,2-f]phenanthridine-Based Sky-Blue TADF Emitters Realizing EQE of over 20% (Advanced Optical Materials 5/2019). <i>Advanced Optical Materials</i> , 2019 , 7, 1970020	8.1	
8	57.2: Invited Paper: White OLEDs for General Lighting. <i>Digest of Technical Papers SID International Symposium</i> , 2012 , 43, 776-777	0.5	
7	Development of Phenylpyridine-Containing Wide-Energy-Gap Electron-Transporters for High Performance OLEDs. <i>Kobunshi Ronbunshu</i> , 2013 , 70, 360-369	0	
6	Low Molecular Weight Materials: Hole-Transport Materials 2019 , 1-6		
5	50-4: High-Performance Pyrimidine-Based TADF Emitters Realizing Pure Blue-to-Green Emission with EQE of 25%. <i>Digest of Technical Papers SID International Symposium</i> , 2017 , 48, 754-755	0.5	
4	Alkoxyphenyl Group-Containing Starburst Host Materials for Efficient Blue and Green Organic Light-Emitting Devices. <i>IEICE Transactions on Electronics</i> , 2011 , E94-C, 1848-1850	0.4	
3	Asymmetric Spirobiacridine-based Delayed Fluorescence Emitters for High-performance Organic Light-Emitting Devices. <i>Chemistry - A European Journal</i> , 2021 , 27, 10780	4.8	
2	P-169: Light-Blue Thermally Activated Delayed Fluorescent Emitters Realizing a High External Quantum Efficiency of 25%. <i>Digest of Technical Papers SID International Symposium</i> , 2016 , 47, 1754-1756 ^{0.5}		

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