

Chihaya Adachi

List of Publications by Citations

Source: <https://exaly.com/author-pdf/534973/chihaya-adachi-publications-by-citations.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

725
papers

58,247
citations

111
h-index

227
g-index

787
ext. papers

65,287
ext. citations

7.1
avg, IF

8.16
L-index

#	Paper	IF	Citations
725	Highly efficient organic light-emitting diodes from delayed fluorescence. <i>Nature</i> , 2012 , 492, 234-8	50.4	4461
724	Nearly 100% internal phosphorescence efficiency in an organic light-emitting device. <i>Journal of Applied Physics</i> , 2001 , 90, 5048-5051	2.5	2883
723	Highly phosphorescent bis-cyclometalated iridium complexes: synthesis, photophysical characterization, and use in organic light emitting diodes. <i>Journal of the American Chemical Society</i> , 2001 , 123, 4304-12	16.4	2408
722	Efficient blue organic light-emitting diodes employing thermally activated delayed fluorescence. <i>Nature Photonics</i> , 2014 , 8, 326-332	33.9	1704
721	Transient analysis of organic electrophosphorescence. II. Transient analysis of triplet-triplet annihilation. <i>Physical Review B</i> , 2000 , 62, 10967-10977	3.3	1159
720	Design of efficient thermally activated delayed fluorescence materials for pure blue organic light emitting diodes. <i>Journal of the American Chemical Society</i> , 2012 , 134, 14706-9	16.4	1147
719	Organic light-emitting diodes employing efficient reverse intersystem crossing for triplet-to-singlet state conversion. <i>Nature Photonics</i> , 2012 , 6, 253-258	33.9	1090
718	Endothermic energy transfer: A mechanism for generating very efficient high-energy phosphorescent emission in organic materials. <i>Applied Physics Letters</i> , 2001 , 79, 2082-2084	3.4	953
717	High-efficiency organic electrophosphorescent devices with tris(2-phenylpyridine)iridium doped into electron-transporting materials. <i>Applied Physics Letters</i> , 2000 , 77, 904-906	3.4	929
716	Highly efficient blue electroluminescence based on thermally activated delayed fluorescence. <i>Nature Materials</i> , 2015 , 14, 330-6	27	886
715	Efficient up-conversion of triplet excitons into a singlet state and its application for organic light emitting diodes. <i>Applied Physics Letters</i> , 2011 , 98, 083302	3.4	748
714	Thermally activated delayed fluorescence from Sn(4+)-porphyrin complexes and their application to organic light emitting diodes--a novel mechanism for electroluminescence. <i>Advanced Materials</i> , 2009 , 21, 4802-6	24	695
713	High-efficiency organic light-emitting diodes with fluorescent emitters. <i>Nature Communications</i> , 2014 , 5, 4016	17.4	652
712	Anthraquinone-based intramolecular charge-transfer compounds: computational molecular design, thermally activated delayed fluorescence, and highly efficient red electroluminescence. <i>Journal of the American Chemical Society</i> , 2014 , 136, 18070-81	16.4	628
711	100% phosphorescence quantum efficiency of Ir(III) complexes in organic semiconductor films. <i>Applied Physics Letters</i> , 2005 , 86, 071104	3.4	623
710	High-efficiency red electrophosphorescence devices. <i>Applied Physics Letters</i> , 2001 , 78, 1622-1624	3.4	621
709	Purely organic electroluminescent material realizing 100% conversion from electricity to light. <i>Nature Communications</i> , 2015 , 6, 8476	17.4	606

708	Blue light-emitting organic electroluminescent devices. <i>Applied Physics Letters</i> , 1990 , 56, 799-801	3.4	596
707	Organic electroluminescent device having a hole conductor as an emitting layer. <i>Applied Physics Letters</i> , 1989 , 55, 1489-1491	3.4	510
706	Efficient green thermally activated delayed fluorescence (TADF) from a phenoxazine-triphenyltriazine (PXZ-TRZ) derivative. <i>Chemical Communications</i> , 2012 , 48, 11392-4	5.8	478
705	Organic long persistent luminescence. <i>Nature</i> , 2017 , 550, 384-387	50.4	475
704	Efficient Persistent Room Temperature Phosphorescence in Organic Amorphous Materials under Ambient Conditions. <i>Advanced Functional Materials</i> , 2013 , 23, 3386-3397	15.6	466
703	High efficiency single dopant white electrophosphorescent light emitting diodes. <i>New Journal of Chemistry</i> , 2002 , 26, 1171-1178	3.6	450
702	Enhanced electroluminescence efficiency in a spiro-acridine derivative through thermally activated delayed fluorescence. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11311-5	16.4	431
701	Nearly 100% internal quantum efficiency in undoped electroluminescent devices employing pure organic emitters. <i>Advanced Materials</i> , 2015 , 27, 2096-100	24	412
700	Luminous butterflies: efficient exciton harvesting by benzophenone derivatives for full-color delayed fluorescence OLEDs. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 6402-6	16.4	399
699	Highly efficient organic light-emitting diode based on a hidden thermally activated delayed fluorescence channel in a heptazine derivative. <i>Advanced Materials</i> , 2013 , 25, 3319-23	24	375
698	Electroluminescence mechanisms in organic light emitting devices employing a europium chelate doped in a wide energy gap bipolar conducting host. <i>Journal of Applied Physics</i> , 2000 , 87, 8049-8055	2.5	372
697	Molecular design of hole transport materials for obtaining high durability in organic electroluminescent diodes. <i>Applied Physics Letters</i> , 1995 , 66, 2679-2681	3.4	372
696	Electroluminescence based on thermally activated delayed fluorescence generated by a spirobifluorene donor-acceptor structure. <i>Chemical Communications</i> , 2012 , 48, 9580-2	5.8	360
695	Confinement of charge carriers and molecular excitons within 5-nm-thick emitter layer in organic electroluminescent devices with a double heterostructure. <i>Applied Physics Letters</i> , 1990 , 57, 531-533	3.4	357
694	Analysis of exciton annihilation in high-efficiency sky-blue organic light-emitting diodes with thermally activated delayed fluorescence. <i>Organic Electronics</i> , 2013 , 14, 2721-2726	3.5	354
693	Third-generation organic electroluminescence materials. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 060101	1.4	349
692	Electroluminescence in Organic Films with Three-Layer Structure. <i>Japanese Journal of Applied Physics</i> , 1988 , 27, L269-L271	1.4	348
691	Controlling Singlet-Triplet Energy Splitting for Deep-Blue Thermally Activated Delayed Fluorescence Emitters. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1571-1575	16.4	302

690	Intermolecular interaction and a concentration-quenching mechanism of phosphorescent Ir(III) complexes in a solid film. <i>Physical Review Letters</i> , 2006 , 96, 017404	7.4	299
689	Electroluminescence of 1,3,4-Oxadiazole and Triphenylamine-Containing Molecules as an Emitter in Organic Multilayer Light Emitting Diodes. <i>Chemistry of Materials</i> , 1997 , 9, 1077-1085	9.6	298
688	High-efficiency electroluminescence and amplified spontaneous emission from a thermally activated delayed fluorescent near-infrared emitter. <i>Nature Photonics</i> , 2018 , 12, 98-104	33.9	287
687	Afterglow Organic Light-Emitting Diode. <i>Advanced Materials</i> , 2016 , 28, 655-60	24	282
686	High-efficiency organic light-emitting diodes utilizing thermally activated delayed fluorescence from triazine-based donor-acceptor hybrid molecules. <i>Applied Physics Letters</i> , 2012 , 101, 093306	3.4	281
685	Nanoparticles of adaptive supramolecular networks self-assembled from nucleotides and lanthanide ions. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2151-8	16.4	272
684	Systematic conversion of single walled carbon nanotubes into n-type thermoelectric materials by molecular dopants. <i>Scientific Reports</i> , 2013 , 3, 3344	4.9	271
683	Oxadiazole- and triazole-based highly-efficient thermally activated delayed fluorescence emitters for organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 4599	7.1	269
682	Triplet exciton confinement and unconfinement by adjacent hole-transport layers. <i>Journal of Applied Physics</i> , 2004 , 95, 7798-7802	2.5	265
681	Promising operational stability of high-efficiency organic light-emitting diodes based on thermally activated delayed fluorescence. <i>Scientific Reports</i> , 2013 , 3, 2127	4.9	264
680	High efficiency pure blue thermally activated delayed fluorescence molecules having 10H-phenoxaborin and acridan units. <i>Chemical Communications</i> , 2015 , 51, 9443-6	5.8	258
679	Twisted Intramolecular Charge Transfer State for Long-Wavelength Thermally Activated Delayed Fluorescence. <i>Chemistry of Materials</i> , 2013 , 25, 3766-3771	9.6	253
678	Triplet Exciton Confinement in Green Organic Light-Emitting Diodes Containing Luminescent Charge-Transfer Cu(I) Complexes. <i>Advanced Functional Materials</i> , 2012 , 22, 2327-2336	15.6	253
677	Computational Prediction for Singlet- and Triplet-Transition Energies of Charge-Transfer Compounds. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 3872-7	6.4	248
676	Triarylboron-Based Fluorescent Organic Light-Emitting Diodes with External Quantum Efficiencies Exceeding 20 . <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 15231-5	16.4	242
675	Organic Electroluminescent Device with a Three-Layer Structure. <i>Japanese Journal of Applied Physics</i> , 1988 , 27, L713-L715	1.4	242
674	High-efficiency deep-blue organic light-emitting diodes based on a thermally activated delayed fluorescence emitter. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 421-424	7.1	230
673	1,8-Naphthalimides in phosphorescent organic LEDs: the interplay between dopant, exciplex, and host emission. <i>Journal of the American Chemical Society</i> , 2002 , 124, 9945-54	16.4	224

672	Blue-Light-Emitting Organic Electroluminescent Devices with Oxadiazole Dimer Dyes as an Emitter. <i>Japanese Journal of Applied Physics</i> , 1992 , 31, 1812-1816	1.4	220
671	Simple Accurate System for Measuring Absolute Photoluminescence Quantum Efficiency in Organic Solid-State Thin Films. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 7729-7730	1.4	219
670	High-efficiency white organic light-emitting diodes based on a blue thermally activated delayed fluorescent emitter combined with green and red fluorescent emitters. <i>Advanced Materials</i> , 2015 , 27, 2019-23	24	212
669	Thermally Activated Delayed Fluorescence Polymers for Efficient Solution-Processed Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2016 , 28, 4019-24	24	211
668	Efficient organic light-emitting diodes through up-conversion from triplet to singlet excited states of exciplexes. <i>Applied Physics Letters</i> , 2012 , 101, 023306	3.4	206
667	Dual Intramolecular Charge-Transfer Fluorescence Derived from a Phenothiazine-Triphenyltriazine Derivative. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15985-15994	3.8	204
666	High current density in light-emitting transistors of organic single crystals. <i>Physical Review Letters</i> , 2008 , 100, 066601	7.4	204
665	High-Efficiency Organic Electrophosphorescent Diodes Using 1,3,5-Triazine Electron Transport Materials. <i>Chemistry of Materials</i> , 2004 , 16, 1285-1291	9.6	204
664	Full-Color Delayed Fluorescence Materials Based on Wedge-Shaped Phthalonitriles and Dicyanopyrazines: Systematic Design, Tunable Photophysical Properties, and OLED Performance. <i>Advanced Functional Materials</i> , 2016 , 26, 1813-1821	15.6	202
663	Versatile Molecular Functionalization for Inhibiting Concentration Quenching of Thermally Activated Delayed Fluorescence. <i>Advanced Materials</i> , 2017 , 29, 1604856	24	195
662	Excited state engineering for efficient reverse intersystem crossing. <i>Science Advances</i> , 2018 , 4, eaao6910	4.3	192
661	Charge carrier trapping effect by luminescent dopant molecules in single-layer organic light emitting diodes. <i>Journal of Applied Physics</i> , 1999 , 86, 1680-1687	2.5	190
660	Horizontal orientation of linear-shaped organic molecules having bulky substituents in neat and doped vacuum-deposited amorphous films. <i>Organic Electronics</i> , 2009 , 10, 127-137	3.5	188
659	Switching effect in Cu:TCNQ charge transfer-complex thin films by vacuum codeposition. <i>Applied Physics Letters</i> , 2003 , 83, 1252-1254	3.4	183
658	High-efficiency yellow double-doped organic light-emitting devices based on phosphor-sensitized fluorescence. <i>Applied Physics Letters</i> , 2001 , 79, 1045-1047	3.4	181
657	Solution-Processed Organic-Inorganic Perovskite Field-Effect Transistors with High Hole Mobilities. <i>Advanced Materials</i> , 2016 , 28, 10275-10281	24	181
656	Organic luminescent molecule with energetically equivalent singlet and triplet excited states for organic light-emitting diodes. <i>Physical Review Letters</i> , 2013 , 110, 247401	7.4	180
655	Increased light outcoupling efficiency in dye-doped small molecule organic light-emitting diodes with horizontally oriented emitters. <i>Organic Electronics</i> , 2011 , 12, 809-817	3.5	178

654	Evidence and mechanism of efficient thermally activated delayed fluorescence promoted by delocalized excited states. <i>Science Advances</i> , 2017 , 3, e1603282	14.3	177
653	Dual enhancement of electroluminescence efficiency and operational stability by rapid upconversion of triplet excitons in OLEDs. <i>Scientific Reports</i> , 2015 , 5, 8429	4.9	176
652	Efficient electrophosphorescence using a doped ambipolar conductive molecular organic thin film. <i>Organic Electronics</i> , 2001 , 2, 37-43	3.5	173
651	Determination of molecular dipole orientation in doped fluorescent organic thin films by photoluminescence measurements. <i>Applied Physics Letters</i> , 2010 , 96, 073302	3.4	171
650	Stable room-temperature continuous-wave lasing in quasi-2D perovskite films. <i>Nature</i> , 2020 , 585, 53-57	50.4	170
649	A highly luminescent spiro-anthracenone-based organic light-emitting diode exhibiting thermally activated delayed fluorescence. <i>Chemical Communications</i> , 2013 , 49, 10385-7	5.8	167
648	Correlation of hole mobility, exciton diffusion length, and solar cell characteristics in phthalocyanine/fullerene organic solar cells. <i>Applied Physics Letters</i> , 2007 , 90, 103515	3.4	167
647	Nanosecond-time-scale delayed fluorescence molecule for deep-blue OLEDs with small efficiency rolloff. <i>Nature Communications</i> , 2020 , 11, 1765	17.4	159
646	High-Efficiency Blue Organic Light-Emitting Diodes Based on Thermally Activated Delayed Fluorescence from Phenoxaphosphine and Phenoxathiin Derivatives. <i>Advanced Materials</i> , 2016 , 28, 4626-4631	24	158
645	Rational Molecular Design for Deep-Blue Thermally Activated Delayed Fluorescence Emitters. <i>Advanced Functional Materials</i> , 2018 , 28, 1706023	15.6	155
644	Fast spin-flip enables efficient and stable organic electroluminescence from charge-transfer states. <i>Nature Photonics</i> , 2020 , 14, 636-642	33.9	154
643	A New Design Strategy for Efficient Thermally Activated Delayed Fluorescence Organic Emitters: From Twisted to Planar Structures. <i>Advanced Materials</i> , 2017 , 29, 1702767	24	151
642	Stable pure-blue hyperfluorescence organic light-emitting diodes with high-efficiency and narrow emission. <i>Nature Photonics</i> , 2021 , 15, 203-207	33.9	151
641	Red/Near-Infrared Thermally Activated Delayed Fluorescence OLEDs with Near 100 % Internal Quantum Efficiency. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14660-14665	16.4	149
640	Critical role of intermediate electronic states for spin-flip processes in charge-transfer-type organic molecules with multiple donors and acceptors. <i>Nature Materials</i> , 2019 , 18, 1084-1090	27	146
639	Long-Lived Room-Temperature Phosphorescence of Coronene in Zeolitic Imidazolate Framework ZIF-8. <i>Advanced Optical Materials</i> , 2016 , 4, 1015-1021	8.1	145
638	Luminous Butterflies: Efficient Exciton Harvesting by Benzophenone Derivatives for Full-Color Delayed Fluorescence OLEDs. <i>Angewandte Chemie</i> , 2014 , 126, 6520-6524	3.6	137
637	High-efficiency transparent organic light-emitting devices. <i>Applied Physics Letters</i> , 2000 , 76, 2128-2130	3.4	137

636	Efficiency Enhancement of Organic Light-Emitting Diodes Incorporating a Highly Oriented Thermally Activated Delayed Fluorescence Emitter. <i>Advanced Functional Materials</i> , 2014 , 24, 5232-5239	15.6	136
635	Orientation Control of Linear-Shaped Molecules in Vacuum-Deposited Organic Amorphous Films and Its Effect on Carrier Mobilities. <i>Advanced Functional Materials</i> , 2010 , 20, 386-391	15.6	136
634	Controlling Synergistic Oxidation Processes for Efficient and Stable Blue Thermally Activated Delayed Fluorescence Devices. <i>Advanced Materials</i> , 2016 , 28, 7620-5	24	136
633	Influence of host matrix on thermally-activated delayed fluorescence: Effects on emission lifetime, photoluminescence quantum yield, and device performance. <i>Organic Electronics</i> , 2014 , 15, 2027-2037	3.5	131
632	Effect of Molecular Morphology on Amplified Spontaneous Emission of Bis-Styrylbenzene Derivatives. <i>Advanced Materials</i> , 2009 , 21, 4034-4038	24	131
631	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
630	Solvent effect on thermally activated delayed fluorescence by 1,2,3,5-tetrakis(carbazol-9-yl)-4,6-dicyanobenzene. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 5607-12	2.8	128
629	Strategy for Designing Electron Donors for Thermally Activated Delayed Fluorescence Emitters. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 1291-1297	3.8	127
628	Horizontal molecular orientation in vacuum-deposited organic amorphous films of hole and electron transport materials. <i>Applied Physics Letters</i> , 2008 , 93, 173302	3.4	127
627	Highly efficient exciplex organic light-emitting diodes incorporating a heptazine derivative as an electron acceptor. <i>Chemical Communications</i> , 2014 , 50, 6174-6	5.8	124
626	Indication of current-injection lasing from an organic semiconductor. <i>Applied Physics Express</i> , 2019 , 12, 061010	2.4	123
625	Detrimental Effect of Unreacted Pbl on the Long-Term Stability of Perovskite Solar Cells. <i>Advanced Materials</i> , 2020 , 32, e1905035	24	123
624	Measurement of photoluminescence efficiency of Ir(III) phenylpyridine derivatives in solution and solid-state films. <i>Chemical Physics Letters</i> , 2008 , 460, 155-157	2.5	123
623	A six-carbazole-decorated cyclophosphazene as a host with high triplet energy to realize efficient delayed-fluorescence OLEDs. <i>Materials Horizons</i> , 2014 , 1, 264-269	14.4	121
622	Long-lived efficient delayed fluorescence organic light-emitting diodes using n-type hosts. <i>Nature Communications</i> , 2017 , 8, 2250	17.4	120
621	Self-Organizing Mesomorphic Diketopyrrolopyrrole Derivatives for Efficient Solution-Processed Organic Solar Cells. <i>Chemistry of Materials</i> , 2013 , 25, 2549-2556	9.6	119
620	Multifunctional Benzoquinone Additive for Efficient and Stable Planar Perovskite Solar Cells. <i>Advanced Materials</i> , 2017 , 29, 1603808	24	117
619	Triplet management for efficient perovskite light-emitting diodes. <i>Nature Photonics</i> , 2020 , 14, 70-75	33.9	117

618	High-efficiency white organic light-emitting diodes using thermally activated delayed fluorescence. <i>Applied Physics Letters</i> , 2014 , 104, 233304	3.4	111
617	Controlled emission colors and singlet-triplet energy gaps of dihydrophenazine-based thermally activated delayed fluorescence emitters. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 2175-2181	7.1	111
616	Evaluating Carrier Accumulation in Degraded Bulk Heterojunction Organic Solar Cells by a Thermally Stimulated Current Technique. <i>Advanced Functional Materials</i> , 2009 , 19, 3934-3940	15.6	111
615	Extremely Low-Threshold Amplified Spontaneous Emission of 9,9'-Spirobifluorene Derivatives and Electroluminescence from Field-Effect Transistor Structure. <i>Advanced Functional Materials</i> , 2007 , 17, 2328-2335	15.6	111
614	Doped organic light emitting diodes having a 650-nm-thick hole transport layer. <i>Applied Physics Letters</i> , 1998 , 72, 2147-2149	3.4	111
613	Combined Inter- and Intramolecular Charge-Transfer Processes for Highly Efficient Fluorescent Organic Light-Emitting Diodes with Reduced Triplet Exciton Quenching. <i>Advanced Materials</i> , 2017 , 29, 1606448	24	110
612	100% fluorescence efficiency of 4,4'-bis[(N-carbazole)styryl]biphenyl in a solid film and the very low amplified spontaneous emission threshold. <i>Applied Physics Letters</i> , 2005 , 86, 071110	3.4	108
611	Highly Stable Near-Infrared Fluorescent Organic Nanoparticles with a Large Stokes Shift for Noninvasive Long-Term Cellular Imaging. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 26266-74	9.5	107
610	A dicarbazole-triazine hybrid bipolar host material for highly efficient green phosphorescent OLEDs. <i>Journal of Materials Chemistry</i> , 2012 , 22, 3832		107
609	Benzimidazobenzothiazole-Based Bipolar Hosts to Harvest Nearly All of the Excitons from Blue Delayed Fluorescence and Phosphorescent Organic Light-Emitting Diodes. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6864-8	16.4	106
608	Lateral organic light-emitting diode with field-effect transistor characteristics. <i>Journal of Applied Physics</i> , 2005 , 98, 074506	2.5	105
607	Enhanced electroluminescence based on thermally activated delayed fluorescence from a carbazole-triazine derivative. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 15850-5	3.6	104
606	Highly Efficient Thermally Activated Delayed Fluorescence from an Excited-State Intramolecular Proton Transfer System. <i>ACS Central Science</i> , 2017 , 3, 769-777	16.8	103
605	Toward continuous-wave operation of organic semiconductor lasers. <i>Science Advances</i> , 2017 , 3, e1602570	14.3	101
604	Electrogenerated chemiluminescence of donor-acceptor molecules with thermally activated delayed fluorescence. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 6993-6	16.4	101
603	Highly Efficient Blue Electroluminescence Using Delayed-Fluorescence Emitters with Large Overlap Density between Luminescent and Ground States. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 26283-26289	3.8	100
602	Large reverse saturable absorption under weak continuous incoherent light. <i>Nature Materials</i> , 2014 , 13, 938-46	27	99
601	High performance from extraordinarily thick organic light-emitting diodes. <i>Nature</i> , 2019 , 572, 502-506	50.4	98

600	Degradation Mechanisms of Solution-Processed Planar Perovskite Solar Cells: Thermally Stimulated Current Measurement for Analysis of Carrier Traps. <i>Advanced Materials</i> , 2016 , 28, 466-71	24	95
599	Degradation Mechanisms of Organic Light-Emitting Diodes Based on Thermally Activated Delayed Fluorescence Molecules. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 23845-23851	3.8	92
598	Thermally Activated Delayed Fluorescence Carbonyl Derivatives for Organic Light-Emitting Diodes with Extremely Narrow Full Width at Half-Maximum. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13472-13480	9.5	90
597	Enhanced figure of merit of a porous thin film of bismuth antimony telluride. <i>Applied Physics Letters</i> , 2011 , 98, 023114	3.4	88
596	Selectively Controlled Orientational Order in Linear-Shaped Thermally Activated Delayed Fluorescent Dopants. <i>Chemistry of Materials</i> , 2014 , 26, 3665-3671	9.6	87
595	Reversible Thermal Recording Media Using Time-Dependent Persistent Room Temperature Phosphorescence. <i>Advanced Optical Materials</i> , 2013 , 1, 438-442	8.1	87
594	Effect of solvent on fabrication of active layers in organic solar cells based on poly(3-hexylthiophene) and fullerene derivatives. <i>Solar Energy Materials and Solar Cells</i> , 2009 , 93, 514-518	6.4	86
593	Small molecular organic photovoltaic cells with exciton blocking layer at anode interface for improved device performance. <i>Applied Physics Letters</i> , 2011 , 99, 153302	3.4	86
592	Methylammonium Lead Bromide Perovskite Light-Emitting Diodes by Chemical Vapor Deposition. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3193-3198	6.4	85
591	Triarylboron-Based Fluorescent Organic Light-Emitting Diodes with External Quantum Efficiencies Exceeding 20 %. <i>Angewandte Chemie</i> , 2015 , 127, 15446-15450	3.6	85
590	Bifunctional star-burst amorphous molecular materials for OLEDs: achieving highly efficient solid-state luminescence and carrier transport induced by spontaneous molecular orientation. <i>Advanced Materials</i> , 2013 , 25, 2666-71	24	85
589	Improved thermoelectric performance of organic thin-film elements utilizing a bilayer structure of pentacene and 2,3,5,6-tetrafluoro-7,7,8,8-tetracyanoquinodimethane (F4-TCNQ). <i>Applied Physics Letters</i> , 2010 , 96, 253304	3.4	85
588	Formation of Europium Chelate Complexes by Vacuum Co-Deposition and Their Application in Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2004 , 16, 1082-1086	24	85
587	Efficient luminescence from a copper(I) complex doped in organic light-emitting diodes by suppressing C-H vibrational quenching. <i>Chemical Communications</i> , 2012 , 48, 5340-2	5.8	84
586	Improvement of electroluminescence performance of organic light-emitting diodes with a liquid-emitting layer by introduction of electrolyte and a hole-blocking layer. <i>Advanced Materials</i> , 2011 , 23, 889-93	24	84
585	Singlet-singlet and singlet-heat annihilations in fluorescence-based organic light-emitting diodes under steady-state high current density. <i>Applied Physics Letters</i> , 2005 , 86, 213506	3.4	83
584	Efficient and stable sky-blue delayed fluorescence organic light-emitting diodes with CIE below 0.4. <i>Nature Communications</i> , 2018 , 9, 5036	17.4	82
583	Operational stability enhancement in organic light-emitting diodes with ultrathin Liq interlayers. <i>Scientific Reports</i> , 2016 , 6, 22463	4.9	81

582	Donor-Acceptor Motifs: Thermally Activated Delayed Fluorescence Emitters with Dual Upconversion. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 16536-16540	16.4	81
581	Low driving voltage characteristics of triphenylene derivatives as electron transport materials in organic light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20689		81
580	Turn on of sky-blue thermally activated delayed fluorescence and circularly polarized luminescence (CPL) increased torsion by a bulky carbazolophane donor. <i>Chemical Science</i> , 2019 , 10, 6689-6696	9.4	80
579	Effect of reverse intersystem crossing rate to suppress efficiency roll-off in organic light-emitting diodes with thermally activated delayed fluorescence emitters. <i>Chemical Physics Letters</i> , 2016 , 644, 62-67	7.5	76
578	Extremely low voltage organic light-emitting diodes with p-doped alpha-sexithiophene hole transport and n-doped phenyldipyrenylphosphine oxide electron transport layers. <i>Applied Physics Letters</i> , 2006 , 89, 253506	3.4	76
577	Extremely low-voltage driving of organic light-emitting diodes with a Cs-doped phenyldipyrenylphosphine oxide layer as an electron-injection layer. <i>Applied Physics Letters</i> , 2005 , 86, 033503	3.4	76
576	Thermoelectric properties of n-type C60 thin films and their application in organic thermovoltaic devices. <i>Applied Physics Letters</i> , 2011 , 99, 093308	3.4	75
575	Organic Long-Persistent Luminescence from a Flexible and Transparent Doped Polymer. <i>Advanced Materials</i> , 2018 , 30, e1803713	24	75
574	Suppression of Efficiency Roll-Off Characteristics in Thermally Activated Delayed Fluorescence Based Organic Light-Emitting Diodes Using Randomly Oriented Host Molecules. <i>Chemistry of Materials</i> , 2013 , 25, 3038-3047	9.6	74
573	Enhanced Electroluminescence from a Thermally Activated Delayed-Fluorescence Emitter by Suppressing Nonradiative Decay. <i>Physical Review Applied</i> , 2015 , 3,	4.3	74
572	Long-range coupling of electron-hole pairs in spatially separated organic donor-acceptor layers. <i>Science Advances</i> , 2016 , 2, e1501470	14.3	73
571	Fabrication of high coverage MASnI3 perovskite films for stable, planar heterojunction solar cells. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1121-1127	7.1	72
570	Controlling Singlet-Triplet Energy Splitting for Deep-Blue Thermally Activated Delayed Fluorescence Emitters. <i>Angewandte Chemie</i> , 2017 , 129, 1593-1597	3.6	72
569	Near-Infrared Electroluminescence and Low Threshold Amplified Spontaneous Emission above 800 nm from a Thermally Activated Delayed Fluorescent Emitter. <i>Chemistry of Materials</i> , 2018 , 30, 6702-6710	9.6	72
568	Blue organic light-emitting diodes realizing external quantum efficiency over 25% using thermally activated delayed fluorescence emitters. <i>Scientific Reports</i> , 2017 , 7, 284	4.9	71
567	Color Tuning of Avobenzene Boron Difluoride as an Emitter to Achieve Full-Color Emission. <i>Advanced Functional Materials</i> , 2016 , 26, 6703-6710	15.6	71
566	p-i-n Homojunction in organic light-emitting transistors. <i>Advanced Materials</i> , 2011 , 23, 2753-8	24	71
565	Increased vis-to-UV upconversion performance by energy level matching between a TADF donor and high triplet energy acceptors. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6447-6451	7.1	71

564	Emission Color Tuning in Ambipolar Organic Single-Crystal Field-Effect Transistors by Dye-Doping. <i>Advanced Functional Materials</i> , 2010 , 20, 1610-1615	15.6	70
563	Significant improvement of device durability in organic light-emitting diodes by doping both hole transport and emitter layers with rubrene molecules. <i>Applied Physics Letters</i> , 1999 , 75, 766-768	3.4	70
562	Highly balanced ambipolar mobilities with intense electroluminescence in field-effect transistors based on organic single crystal oligo(p-phenylenevinylene) derivatives. <i>Applied Physics Letters</i> , 2009 , 95, 033308	3.4	69
561	Amplified spontaneous emission under optical pumping from an organic semiconductor laser structure equipped with transparent carrier injection electrodes. <i>Applied Physics Letters</i> , 2004 , 84, 1401-1403	3.4	69
560	Extremely-high-density carrier injection and transport over 12000A μ m ² into organic thin films. <i>Applied Physics Letters</i> , 2005 , 86, 083502	3.4	66
559	Exploiting Singlet Fission in Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2018 , 30, e1801484	24	66
558	A solution-processable host material of 1,3-bis{3-[3-(9-carbazolyl)phenyl]-9-carbazolyl}benzene and its application in organic light-emitting diodes employing thermally activated delayed fluorescence. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 1700-1706	7.1	65
557	Nature of the singlet and triplet excitations mediating thermally activated delayed fluorescence. <i>Physical Review Materials</i> , 2017 , 1,	3.2	65
556	Organic light-emitting diode with liquid emitting layer. <i>Applied Physics Letters</i> , 2009 , 95, 053304	3.4	64
555	Analyzing Bipolar Carrier Transport Characteristics of Diarylamino-Substituted Heterocyclic Compounds in Organic Light-Emitting Diodes by Probing Electroluminescence Spectra. <i>Chemistry of Materials</i> , 2008 , 20, 4439-4446	9.6	64
554	Light Amplification in Molecules Exhibiting Thermally Activated Delayed Fluorescence. <i>Advanced Optical Materials</i> , 2017 , 5, 1700051	8.1	63
553	The Role of Reverse Intersystem Crossing Using a TADF-Type Acceptor Molecule on the Device Stability of Exciplex-Based Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2020 , 32, e1906614	24	63
552	The Importance of Excited-State Energy Alignment for Efficient Exciplex Systems Based on a Study of Phenylpyridinato Boron Derivatives. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 12380-12384	16.4	63
551	Boron difluoride hemicurcuminoid as an efficient far red to near-infrared emitter: toward OLEDs and laser dyes. <i>Chemical Communications</i> , 2017 , 53, 7003-7006	5.8	62
550	Wide-Range Tuning and Enhancement of Organic Long-Persistent Luminescence Using Emitter Dopants. <i>Advanced Materials</i> , 2018 , 30, e1800365	24	62
549	Zinc complexes exhibiting highly efficient thermally activated delayed fluorescence and their application to organic light-emitting diodes. <i>Chemical Communications</i> , 2015 , 51, 3181-4	5.8	62
548	High efficiency thermally activated delayed fluorescence based on 1,3,5-tris(4-(diphenylamino)phenyl)-2,4,6-tricyanobenzene. <i>Chemical Communications</i> , 2015 , 51, 5028-31	5.8	62
547	Enhanced Electroluminescence Efficiency in a Spiro-Acridine Derivative through Thermally Activated Delayed Fluorescence. <i>Angewandte Chemie</i> , 2012 , 124, 11473-11477	3.6	62

546	Highly efficient electroluminescence from a solution-processable thermally activated delayed fluorescence emitter. <i>Applied Physics Letters</i> , 2015 , 107, 183303	3.4	61
545	Highly efficient bulk heterojunction photovoltaic cells based on C70 and tetraphenyldibenzoperiflanthene. <i>Applied Physics Letters</i> , 2013 , 102, 143304	3.4	61
544	Influence of energy gap between charge-transfer and locally excited states on organic long persistence luminescence. <i>Nature Communications</i> , 2020 , 11, 191	17.4	61
543	Triplet-triplet upconversion enhanced by spin-orbit coupling in organic light-emitting diodes. <i>Nature Communications</i> , 2019 , 10, 5283	17.4	61
542	Confinement of Long-Lived Triplet Excitons in Organic Semiconducting Host-Guest Systems. <i>Advanced Functional Materials</i> , 2017 , 27, 1703902	15.6	59
541	Electroluminescence from completely horizontally oriented dye molecules. <i>Applied Physics Letters</i> , 2016 , 108, 241106	3.4	59
540	Thermally activated delayed fluorescence from $3n\pi$ to $1n\pi$ up-conversion and its application to organic light-emitting diodes. <i>Applied Physics Letters</i> , 2014 , 105, 013301	3.4	58
539	Novel liquid-crystalline and amorphous materials containing oxadiazole and amine moieties for electroluminescent devices. <i>Chemical Communications</i> , 2000 , 1923-1924	5.8	58
538	[2,2']Bi[naphtho[2,3-b]furanyl]: a versatile organic semiconductor with a furan-furan junction. <i>Chemical Communications</i> , 2012 , 48, 5892-4	5.8	57
537	Light extraction from surface plasmons and waveguide modes in an organic light-emitting layer by nanoimprinted gratings. <i>Optics Express</i> , 2011 , 19 Suppl 1, A7-19	3.3	57
536	Hysteresis-less and stable perovskite solar cells with a self-assembled monolayer. <i>Communications Materials</i> , 2020 , 1,	6	57
535	Centrifugal-Coated Quasi-Two-Dimensional Perovskite CsPbBr Films for Efficient and Stable Light-Emitting Diodes. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5415-5421	6.4	56
534	Donor-acceptor-structured 1,4-diazatriphenylene derivatives exhibiting thermally activated delayed fluorescence: design and synthesis, photophysical properties and OLED characteristics. <i>Science and Technology of Advanced Materials</i> , 2014 , 15, 034202	7.1	56
533	Blue-Light-Emitting Ambipolar Field-Effect Transistors Using an Organic Single Crystal of 1,4-Bis(4-methylstyryl)benzene. <i>Applied Physics Express</i> , 2008 , 1, 091801	2.4	56
532	Tuning of threshold voltage by interfacial carrier doping in organic single crystal ambipolar light-emitting transistors and their bright electroluminescence. <i>Applied Physics Letters</i> , 2009 , 95, 103307 ³⁻⁴	3.4	55
531	Enhanced hole injection and transport in molybdenum-dioxide-doped organic hole-transporting layers. <i>Journal of Applied Physics</i> , 2008 , 103, 034501	2.5	55
530	Light-emitting organic field-effect transistors based on highly luminescent single crystals of thiophene/phenylene co-oligomers. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 4918	7.1	54
529	High performance organic field-effect transistors based on single-crystal microribbons and microsheets of solution-processed dithieno[3,2-b:2',3'-d]thiophene derivatives. <i>Chemical Communications</i> , 2013 , 49, 6483-5	5.8	54

528	Enhancement of electron transport by horizontal molecular orientation of oxadiazole planar molecules in organic amorphous films. <i>Applied Physics Letters</i> , 2009 , 95, 243303	3.4	54
527	Estimation of electron traps in carbon-60 field-effect transistors by a thermally stimulated current technique. <i>Applied Physics Letters</i> , 2007 , 91, 103505	3.4	54
526	Electroluminescence of 2,4-bis(4-(2-thiophene-yl)phenyl)thiophene in organic light-emitting field-effect transistors. <i>Applied Physics Letters</i> , 2005 , 86, 093505	3.4	54
525	Thermally Activated Delayed Fluorescence from a Spiro-diazafluorene Derivative. <i>Chemistry Letters</i> , 2014 , 43, 1017-1019	1.7	53
524	X-shaped benzoylbenzophenone derivatives with crossed donors and acceptors for highly efficient thermally activated delayed fluorescence. <i>Dalton Transactions</i> , 2015 , 44, 8356-9	4.3	53
523	Synthesis and photophysical characteristics of 2,7-fluorenevinylene-based trimers and their electroluminescence. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 20317-26	3.4	53
522	A Phenazaborin-Based High-Efficiency Blue Delayed Fluorescence Material. <i>Bulletin of the Chemical Society of Japan</i> , 2016 , 89, 375-377	5.1	52
521	A host material consisting of a phosphinic amide directly linked donor-acceptor structure for efficient blue phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2404	7.1	52
520	Organic molecules based on dithienyl-2,1,3-benzothiadiazole as new donor materials for solution-processed organic photovoltaic cells. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 2230-2237	6.4	52
519	Highly efficient and stable red phosphorescent organic light-emitting device using bis[2-(2-benzothiazoyl)phenolato]zinc(II) as host material. <i>Applied Physics Letters</i> , 2007 , 90, 123509	3.4	52
518	A Novel Class of Photo- and Electroactive Polymers Containing Oxadiazole and Amine Moieties in a Side Chain. <i>Macromolecules</i> , 2003 , 36, 3457-3464	5.5	52
517	Electroluminescence of organic light emitting diodes with a thick hole transport layer composed of a triphenylamine based polymer doped with an antimony compound. <i>Journal of Applied Physics</i> , 1999 , 86, 4369-4376	2.5	52
516	Near-infrared organic light-emitting diodes for biosensing with high operating stability. <i>Applied Physics Express</i> , 2017 , 10, 074101	2.4	51
515	Uniform Aerosol Jet printed polymer lines with 30 μ m width for 140ppi resolution RGB organic light emitting diodes. <i>Organic Electronics</i> , 2015 , 22, 40-43	3.5	51
514	Organic nanostructures of thermally activated delayed fluorescent emitters with enhanced intersystem crossing as novel metal-free photosensitizers. <i>Chemical Communications</i> , 2016 , 52, 11744-11747	5.8	51
513	Highly Efficient Near-Infrared Electrofluorescence from a Thermally Activated Delayed Fluorescence Molecule. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 8477-8482	16.4	51
512	Exciplex Formations between Tris(8-hydroxyquinolate)aluminum and Hole Transport Materials and Their Photoluminescence and Electroluminescence Characteristics. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 7735-7741	3.8	50
511	Double-heterostructure electroluminescent device with cyanine-dye bimolecular layer as an emitter. <i>Chemical Physics Letters</i> , 1991 , 178, 488-490	2.5	50

510	N-channel field-effect transistors with an organic-inorganic layered perovskite semiconductor. <i>Applied Physics Letters</i> , 2016 , 109, 253301	3.4	50
509	In situ real-time spectroscopic ellipsometry measurement for the investigation of molecular orientation in organic amorphous multilayer structures. <i>Journal of Applied Physics</i> , 2010 , 107, 123512	2.5	49
508	Unusual Phosphorescence Characteristics of Ir(ppy) ₃ in a Solid Matrix at Low Temperatures. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, L937-L939	1.4	49
507	Architectures for efficient electrophosphorescent organic light-emitting devices. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2002 , 8, 372-377	3.8	49
506	Highly Efficient Thermally Activated Delayed Fluorescence Emitters with a Small Singlet-Triplet Energy Gap and Large Oscillator Strength. <i>Chemistry Letters</i> , 2015 , 44, 360-362	1.7	48
505	Material design of hole transport materials capable of thick-film formation in organic light emitting diodes. <i>Applied Physics Letters</i> , 2007 , 90, 183503	3.4	48
504	Efficient Electron Injection Mechanism in Organic Light-Emitting Diodes Using an Ultra Thin Layer of Low-Work-Function Metals. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, L1535-L1538	1.4	48
503	Dicarbazolyldicyanobenzenes as Thermally Activated Delayed Fluorescence Emitters: Effect of Substitution Position on Photoluminescent and Electroluminescent Properties. <i>Chemistry Letters</i> , 2014 , 43, 319-321	1.7	47
502	Efficient Deep-Blue Organic Light-Emitting Diodes Based on 9,9-Bis(4-biphenyl)fluorene Derivatives. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 6261-6266	3.8	47
501	Extended Narrow-Bandgap Diketopyrrolopyrrole-Based Oligomers for Solution-Processed Inverted Organic Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1400879	21.8	46
500	Effect of Atom Substitution in Chalcogenodiazole-Containing Thermally Activated Delayed Fluorescence Emitters on Radiationless Transition. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 2948-2955	3.8	46
499	Suppression of roll-off characteristics of electroluminescence at high current densities in organic light emitting diodes by introducing reduced carrier injection barriers. <i>Journal of Applied Physics</i> , 2010 , 108, 064516	2.5	46
498	Electrical characteristics of single-component ambipolar organic field-effect transistors and effects of air exposure on them. <i>Journal of Applied Physics</i> , 2008 , 103, 094509	2.5	46
497	Self-Assembly of Electron Donor-Acceptor-Based Carbazole Derivatives: Novel Fluorescent Organic Nanoprobes for Both One- and Two-Photon Cellular Imaging. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 11355-65	9.5	46
496	Processing and doping of thick polymer active layers for flexible organic thermoelectric modules. <i>Organic Electronics</i> , 2016 , 31, 31-40	3.5	45
495	Reduced initial degradation of bulk heterojunction organic solar cells by incorporation of stacked fullerene and lithium fluoride interlayers. <i>Applied Physics Letters</i> , 2010 , 96, 053307	3.4	45
494	Optical Properties of Oligo(9,9-diarylfluorene) Derivatives in Thin Films and Their Application for Organic Light-Emitting Field-Effect Transistors. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 108-115	3.8	45
493	Multi-color microfluidic organic light-emitting diodes based on on-demand emitting layers of pyrene-based liquid organic semiconductors with fluorescent guest dopants. <i>Sensors and Actuators B: Chemical</i> , 2015 , 207, 481-489	8.5	44

492	Phosphorescent Cu(I) complexes based on bis(pyrazol-1-yl-methyl)-pyridine derivatives for organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 138-146	7.1	44
491	Fabrication and performance evaluation of microfluidic organic light emitting diode. <i>Sensors and Actuators A: Physical</i> , 2013 , 195, 219-223	3.9	44
490	Formation of organic crystalline nanopillar arrays and their application to organic photovoltaic cells. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 80-3	9.5	44
489	A light-emitting mechanism for organic light-emitting diodes: molecular design for inverted singlet-triplet structure and symmetry-controlled thermally activated delayed fluorescence. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 870-878	7.1	43
488	Spectrally narrow emissions at cutoff wavelength from edges of optically and electrically pumped anisotropic organic films. <i>Journal of Applied Physics</i> , 2008 , 103, 123104	2.5	43
487	Injection and Transport of High Current Density over 1000 A/cm ² in Organic Light Emitting Diodes under Pulse Excitation. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 3659-3662	1.4	43
486	Horizontal Orientation of Disk-like Hole Transport Molecules and Their Application for Organic Light-Emitting Diodes Requiring a Lower Driving Voltage. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 8699-8706	3.8	42
485	Organic light-emitting diodes containing multilayers of organic single crystals. <i>Applied Physics Letters</i> , 2010 , 96, 053301	3.4	42
484	Ambipolar light-emitting organic field-effect transistors using a wide-band-gap blue-emitting small molecule. <i>Applied Physics Letters</i> , 2007 , 90, 171118	3.4	42
483	Intramolecular Noncovalent Interactions Facilitate Thermally Activated Delayed Fluorescence (TADF). <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3260-3268	6.4	41
482	Suppression of roll-off characteristics of organic light-emitting diodes by narrowing current injection/transport area to 50 nm. <i>Applied Physics Letters</i> , 2015 , 106, 093301	3.4	41
481	High Field-Effect Mobility in an Organic Thin-Film Transistor with a Solid-State Polymerized Polydiacetylene Film as an Active Layer. <i>Advanced Materials</i> , 2006 , 18, 3120-3124	24	41
480	Through Space Charge Transfer for Efficient Sky-Blue Thermally Activated Delayed Fluorescence (TADF) Emitter with Unconjugated Connection. <i>Advanced Optical Materials</i> , 2020 , 8, 1901150	8.1	41
479	Ambipolar field-effect transistor based on organic-inorganic hybrid structure. <i>Applied Physics Letters</i> , 2007 , 90, 262104	3.4	40
478	Progress in organic multilayer electroluminescent devices 1993 ,		40
477	Organic Long-Persistent Luminescence from a Thermally Activated Delayed Fluorescence Compound. <i>Advanced Materials</i> , 2020 , 32, e2003911	24	40
476	Organic light emitting diodes with horizontally oriented thermally activated delayed fluorescence emitters. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1216-1223	7.1	39
475	Effect of confined radiation field on spontaneous-emission lifetime in vacuum-deposited fluorescent dye films. <i>Chemical Physics Letters</i> , 1991 , 182, 143-146	2.5	39

474	Near-Infrared Electrophosphorescence up to 1.1 μm using a Thermally Activated Delayed Fluorescence Molecule as Triplet Sensitizer. <i>Advanced Materials</i> , 2017 , 29, 1604265	24	38
473	Organometallic Emitters for OLEDs: Triplet Harvesting, Singlet Harvesting, Case Structures, and Trends 2013 , 371-424		38
472	Phenanthrene-functionalized 3,6-dithiophen-2-yl-2,5-dihydropyrrolo[3,4-b]pyrrole-1,4-diones as donor molecules for solution-processed organic photovoltaic cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 2516-2523	6.4	38
471	Carrier injection and transport characteristics of copper phthalocyanine thin films under low to extremely high current densities. <i>Applied Physics Letters</i> , 2006 , 88, 033508	3-4	38
470	Unusual photoluminescence characteristics of tetraphenylpyrene (TPPy) in various aggregated morphologies. <i>Chemical Physics Letters</i> , 2006 , 421, 295-299	2-5	38
469	Contributions of a Higher Triplet Excited State to the Emission Properties of a Thermally Activated Delayed-Fluorescence Emitter. <i>Physical Review Applied</i> , 2017 , 7,	4-3	37
468	Light Amplification in an Organic Solid-State Film with the Aid of Triplet-to-Singlet Upconversion. <i>Advanced Optical Materials</i> , 2015 , 3, 1381-1388	8.1	37
467	Spectrally narrow emission from organic films under continuous-wave excitation. <i>Applied Physics Letters</i> , 2007 , 90, 231109	3-4	37
466	Top Light-Harvesting Organic Solar Cell Using Ultrathin Ag/MgAg Layer as Anode. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 1734-1735	1.4	37
465	Quasi-Continuous-Wave Organic Thin-Film Distributed Feedback Laser. <i>Advanced Optical Materials</i> , 2016 , 4, 834-839	8.1	37
464	Highly luminescent π -conjugated dithienometalloles: photophysical properties and their application in organic light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 16810		36
463	Photophysical and photosensitizing properties of brominated porphycenes. <i>Chemical Communications</i> , 2008 , 2882-4	5.8	36
462	Ion Migration-Induced Degradation and Efficiency Roll-off in Quasi-2D Perovskite Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 33004-33013	9.5	35
461	Temperature dependence of photoluminescence properties in a thermally activated delayed fluorescence emitter. <i>Applied Physics Letters</i> , 2014 , 104, 213303	3-4	35
460	Ultraviolet amplified spontaneous emission from thin films of 4,4'-bis(9-carbazolyl)-2,2'-biphenyl and the derivatives. <i>Applied Physics Letters</i> , 2004 , 84, 2724-2726	3-4	35
459	Solution-processed organic thermoelectric materials exhibiting doping-concentration-dependent polarity. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 29199-29207	3.6	35
458	Highly efficient electroluminescence from purely organic donor-acceptor systems. <i>Pure and Applied Chemistry</i> , 2015 , 87, 627-638	2.1	34
457	Organic Thin-Film Solar Cells Using Electron-Donating Perylene Tetracarboxylic Acid Derivatives. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 15454-15466	3.8	34

456	Ambipolar Field-Effect Transistor of High Photoluminescent Material Tetraphenylpyrene (TPPy) Single Crystal. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, L596-L598	1.4	34
455	Intramolecular-Locked High Efficiency Ultrapure Violet-Blue (CIE-y). <i>Advanced Functional Materials</i> , 2021 , 31, 2009488	15.6	34
454	Diffusion Enhancement in Highly Excited MAPbI Perovskite Layers with Additives. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3167-3172	6.4	34
453	Amplified spontaneous emission in phenylethylammonium methylammonium lead iodide quasi-2D perovskites. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 15030-15036	3.6	34
452	Extremely low amplified spontaneous emission threshold and blue electroluminescence from a spin-coated octafluorene neat film. <i>Applied Physics Letters</i> , 2017 , 110, 023303	3.4	33
451	Theoretical predication for transition energies of thermally activated delayed fluorescence molecules. <i>Chinese Chemical Letters</i> , 2016 , 27, 1445-1452	8.1	33
450	Dependence of the Amplified Spontaneous Emission Threshold in Spirofluorene Thin Films on Molecular Orientation. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 19890-19896	3.8	33
449	Blue emitting fluorophores of phenyleneethynyls substituted by diphenylethenyl terminal groups for organic light-emitting diodes. <i>Materials Chemistry and Physics</i> , 2009 , 115, 378-384	4.4	33
448	Distributed Feedback Lasers and Light-Emitting Diodes Using 1-Naphthylmethylammonium Low-Dimensional Perovskite. <i>ACS Photonics</i> , 2019 , 6, 460-466	6.3	33
447	Near infrared electroluminescence from Nd(TTA) 3 phen in solution-processed small molecule organic light-emitting diodes. <i>Organic Electronics</i> , 2017 , 44, 50-58	3.5	32
446	Observation of spontaneous orientation polarization in evaporated films of organic light-emitting diode materials. <i>Organic Electronics</i> , 2018 , 58, 313-317	3.5	32
445	Different orientation of the transition dipole moments of two similar Pt(II) complexes and their potential for high efficiency organic light-emitting diodes. <i>Organic Electronics</i> , 2014 , 15, 3031-3037	3.5	32
444	Organometallic complexes as hole-transporting materials in organic light-emitting diodes. <i>Inorganic Chemistry</i> , 2004 , 43, 1697-707	5.1	32
443	Low threshold amplified spontaneous emission and ambipolar charge transport in non-volatile liquid fluorene derivatives. <i>Chemical Communications</i> , 2016 , 52, 3103-6	5.8	31
442	Low Amplified Spontaneous Emission Threshold from Organic Dyes Based on Bis-stilbene. <i>Advanced Functional Materials</i> , 2018 , 28, 1802130	15.6	31
441	Horizontal molecular orientation in solution-processed organic light-emitting diodes. <i>Applied Physics Letters</i> , 2015 , 106, 063301	3.4	31
440	Liquid Carbazole Substituted with a Poly(ethylene oxide) Group and Its Application for Liquid Organic Light-emitting Diodes. <i>Chemistry Letters</i> , 2012 , 41, 934-936	1.7	31
439	Identification of device degradation positions in multi-layered phosphorescent organic light emitting devices using water probes. <i>Applied Physics Letters</i> , 2012 , 100, 183306	3.4	31

438	Many Exciplex Systems Exhibit Organic Long-Persistent Luminescence. <i>Advanced Functional Materials</i> , 2020 , 30, 2000795	15.6	31
437	Suppression of Structural Change upon S-T Conversion Assists the Thermally Activated Delayed Fluorescence Process in Carbazole-Benzonitrile Derivatives. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2475-2480	6.4	30
436	Enhanced Electrical Properties and Air Stability of Amorphous Organic Thin Films by Engineering Film Density. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5891-5897	6.4	30
435	Suppression of exciton annihilation at high current densities in organic light-emitting diode resulting from energy-level alignments of carrier transport layers. <i>Applied Physics Letters</i> , 2008 , 92, 063308	3.4	30
434	Electrical properties of 1,4-bis(4-(phenylethynyl)phenylethynyl)benzene and its application for organic light emitting diodes. <i>Chemical Communications</i> , 2007 , 2278-80	5.8	30
433	Efficient Electron Injection Characteristics of Triazine Derivatives for Transparent OLEDs (TOLEDs). <i>Chemistry Letters</i> , 2004 , 33, 1034-1035	1.7	30
432	Multilayer-type organic solar cells using phthalocyanines and perylene derivatives.. <i>Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal</i> , 1990 , 1990, 962-967		30
431	Understanding the Degradation of Spiro-OMeTAD-Based Perovskite Solar Cells at High Temperature. <i>Solar Rrl</i> , 2020 , 4, 2000305	7.1	30
430	Photophysical Properties and Efficient, Stable, Electrogenerated Chemiluminescence of Donor-Acceptor Molecules Exhibiting Thermal Spin Upconversion. <i>Chemistry - A European Journal</i> , 2016 , 22, 4889-98	4.8	30
429	Influence of vacuum chamber impurities on the lifetime of organic light-emitting diodes. <i>Scientific Reports</i> , 2016 , 6, 38482	4.9	30
428	Highly efficient solution-processed host-free organic light-emitting diodes showing an external quantum efficiency of nearly 18% with a thermally activated delayed fluorescence emitter. <i>Applied Physics Express</i> , 2016 , 9, 032102	2.4	29
427	Multi-color microfluidic electrochemiluminescence cells. <i>Sensors and Actuators A: Physical</i> , 2014 , 214, 225-229	3.9	29
426	Fabrication and characterization of large-area flexible microfluidic organic light-emitting diode with liquid organic semiconductor. <i>Sensors and Actuators A: Physical</i> , 2014 , 216, 231-236	3.9	29
425	Highly efficient bulk heterojunction photovoltaic cell based on tris[4-(5-phenylthiophen-2-yl)phenyl]amine and C70 combined with optimized electron transport layer. <i>Applied Physics Letters</i> , 2013 , 102, 153302	3.4	29
424	Thermally-activated Delayed Fluorescence for Light-emitting Devices. <i>Chemistry Letters</i> , 2021 , 50, 938-948	4.8	29
423	Low Amplified Spontaneous Emission Threshold and Efficient Electroluminescence from a Carbazole Derivatized Excited-State Intramolecular Proton Transfer Dye. <i>ACS Photonics</i> , 2018 , 5, 4447-4455	6.3	29
422	Effect of Carrier Balance on Device Degradation of Organic Light-Emitting Diodes Based on Thermally Activated Delayed Fluorescence Emitters. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800708	6.4	28
421	Tunable and flexible solvent-free liquid organic distributed feedback lasers. <i>Applied Physics Letters</i> , 2015 , 106, 053302	3.4	28

420	Charge carrier dynamics and degradation phenomena in organic light-emitting diodes doped by a thermally activated delayed fluorescence emitter. <i>Organic Electronics</i> , 2015 , 17, 184-191	3.5	28
419	Charge-carrier injection characteristics at organic/organic heterojunction interfaces in organic light-emitting diodes. <i>Chemical Physics Letters</i> , 2007 , 435, 327-330	2.5	28
418	Trifluoromethane modification of thermally activated delayed fluorescence molecules for high-efficiency blue organic light-emitting diodes. <i>Chemical Communications</i> , 2018 , 54, 8261-8264	5.8	28
417	Morphological control of organic/inorganic perovskite layers by hot isostatic pressing for efficient planar solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 17780-17787	13	27
416	Two Regimes of Carrier Diffusion in Vapor-Deposited Lead-Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 21600-21609	3.8	27
415	Capacitance-voltage characteristics of a 4,4'-bis[(N-carbazole)styryl]biphenyl based organic light-emitting diode: Implications for characteristic times and their distribution. <i>Applied Physics Letters</i> , 2013 , 103, 093301	3.4	27
414	Exciplex Formations at the HTL/Alq3 Interface in an Organic Light-Emitting Diode: Influence of the Electron-Hole Recombination Zone and Electric Field. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 4652-4658	3.8	27
413	Novel blue-greenish electroluminescent poly(fluorenevinylene-alt-dibenzothiophenevinylene)s and their model compounds. <i>Journal of Polymer Science Part A</i> , 2006 , 44, 6790-6800	2.5	27
412	Electroluminescence from self-organized microdomes. <i>Applied Physics Letters</i> , 2004 , 84, 4696-4698	3.4	27
411	Silicon based near infrared photodetector using self-assembled organic crystalline nano-pillars. <i>Applied Physics Letters</i> , 2016 , 108, 151102	3.4	27
410	Thermally activated delayed fluorescence with 7% external quantum efficiency from a light-emitting electrochemical cell. <i>Nature Communications</i> , 2019 , 10, 5307	17.4	27
409	A near-infrared organic light-emitting diode based on an Yb(III) complex synthesized by vacuum co-deposition. <i>Chemical Communications</i> , 2017 , 53, 5457-5460	5.8	26
408	Organic Light-emitting Diodes Based on Donor-substituted Phthalimide and Maleimide Fluorophores. <i>Chemistry Letters</i> , 2015 , 44, 1248-1250	1.7	26
407	Photoluminescence characteristics of tris(2-phenylquinoline)iridium(III) dispersed in an iridium complex host layer. <i>Chemical Physics Letters</i> , 2009 , 483, 224-226	2.5	26
406	Improvement of the quasi-continuous-wave lasing properties in organic semiconductor lasers using oxygen as triplet quencher. <i>Applied Physics Letters</i> , 2016 , 108, 223301	3.4	26
405	Intrinsic carrier transport properties of solution-processed organic/inorganic perovskite films. <i>Applied Physics Express</i> , 2017 , 10, 024103	2.4	25
404	Photoluminescence Quenching Probes Spin Conversion and Exciton Dynamics in Thermally Activated Delayed Fluorescence Materials. <i>Advanced Materials</i> , 2019 , 31, e1804490	24	25
403	Stoichiometry Control for the Tuning of Grain Passivation and Domain Distribution in Green Quasi-2D Metal Halide Perovskite Films and Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2020 , 30, 2001816	15.6	25

402	Polymorphism in 9,9-diarylfuorene-based organic semiconductors: influence on optoelectronic functions. <i>Chemical Communications</i> , 2014 , 50, 1523-6	5.8	25
401	Electrogenerated Chemiluminescence of Donor-Acceptor Molecules with Thermally Activated Delayed Fluorescence. <i>Angewandte Chemie</i> , 2014 , 126, 7113-7116	3.6	25
400	Uniform and refreshable liquid electroluminescent device with a back side reservoir. <i>Applied Physics Letters</i> , 2012 , 101, 113302	3.4	25
399	Fluorinated Carbazole Derivatives as Wide-Energy-Gap Host Material for Blue Phosphorescent Organic Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 20681-20687	3.8	25
398	Performance of an organic photodiode as an optical detector and its application to fluorometric flow-immunoassay for IgA. <i>Talanta</i> , 2012 , 96, 132-9	6.2	25
397	Horizontal Orientation of a Linear-Shaped Platinum(II) Complex in Organic Light-Emitting Diodes with a High Light Out-Coupling Efficiency. <i>Applied Physics Express</i> , 2011 , 4, 071602	2.4	25
396	Electroluminescence as a probe for elucidating electrical conductivity in a deoxyribonucleic acid-cetyltrimethylammonium lipid complex layer. <i>Applied Physics Letters</i> , 2004 , 85, 1627-1629	3.4	25
395	High Performance p- and n-Type Light-Emitting Field-Effect Transistors Employing Thermally Activated Delayed Fluorescence. <i>Advanced Functional Materials</i> , 2018 , 28, 1800340	15.6	25
394	The role of fluorine-substitution on the bridge in constructing effective thermally activated delayed fluorescence molecules. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 5536-5541	7.1	24
393	Fabrication of a Flexible Bismuth Telluride Power Generation Module Using Microporous Polyimide Films as Substrates. <i>Journal of Electronic Materials</i> , 2014 , 43, 1733-1739	1.9	24
392	Ambipolar organic field-effect transistors based on solution-processed single crystal microwires of a quinoidal oligothiophene derivative. <i>Chemical Communications</i> , 2015 , 51, 5836-9	5.8	24
391	Low amplified spontaneous emission threshold and suppression of electroluminescence efficiency roll-off in layers doped with ter(9,9'-spirobifluorene). <i>Applied Physics Letters</i> , 2016 , 108, 133302	3.4	24
390	Simple Molecular-Engineering Approach for Enhancing Orientation and Outcoupling Efficiency of Thermally Activated Delayed Fluorescent Emitters without Red-Shifting Emission. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43842-43849	9.5	24
389	Dithia[3.3]paracyclophane Core: A Versatile Platform for Triplet State Fine-Tuning and Through-Space TADF Emission. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 1921-1925	4.5	23
388	Red/Near-Infrared Thermally Activated Delayed Fluorescence OLEDs with Near 100 % Internal Quantum Efficiency. <i>Angewandte Chemie</i> , 2019 , 131, 14802-14807	3.6	23
387	Flexible Porous Bismuth Telluride Thin Films with Enhanced Figure of Merit using Micro-Phase Separation of Block Copolymer. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300015	4.6	23
386	Amplified Spontaneous Emission and Electroluminescence from Thiophene/Phenylene Co-Oligomer-Doped p-bis(p-Styrylstyryl)Benzene Crystals. <i>Advanced Optical Materials</i> , 2013 , 1, 422-427	8.1	23
385	Emission behavior of molecularly doped electroluminescent device using liquid-crystalline matrix. <i>Applied Physics Letters</i> , 2000 , 77, 1587-1589	3.4	23

384	Control of the Singlet-Triplet Energy Gap in a Thermally Activated Delayed Fluorescence Emitter by Using a Polar Host Matrix. <i>Nanoscale Research Letters</i> , 2017 , 12, 268	5	22
383	Large metal halide perovskite crystals for field-effect transistor applications. <i>Applied Physics Letters</i> , 2019 , 115, 120601	3.4	22
382	Multi-layered organic light-emitting diode fabrication using low molecular weight materials by electro spray method. <i>Thin Solid Films</i> , 2013 , 545, 527-532	2.2	22
381	Donor-Acceptor Motifs: Thermally Activated Delayed Fluorescence Emitters with Dual Upconversion. <i>Angewandte Chemie</i> , 2017 , 129, 16763-16767	3.6	22
380	Suppression of external quantum efficiency roll-off of nanopatterned organic-light emitting diodes at high current densities. <i>Journal of Applied Physics</i> , 2015 , 118, 155501	2.5	22
379	Comparison of small amounts of polycrystalline donor materials in C70-based bulk heterojunction photovoltaics and optimization of dinaphthothienothiophene based photovoltaic. <i>Organic Electronics</i> , 2014 , 15, 878-885	3.5	22
378	Estimation of carrier recombination and electroluminescence emission regions in organic light-emitting field-effect transistors using local doping method. <i>Applied Physics Letters</i> , 2006 , 88, 093514	3.4	22
377	Design Strategy for Robust Organic Semiconductor Laser Dyes 2020 , 2, 161-167		22
376	Grain Boundary Engineering of Halide Perovskite CH ₃ NH ₃ PbI ₃ Solar Cells with Photochemically Active Additives. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 4817-4821	3.8	21
375	A wide-energy-gap naphthalene-based liquid organic semiconductor host for liquid deep-blue organic light-emitting diodes. <i>Journal of Luminescence</i> , 2018 , 200, 19-23	3.8	21
374	Enhanced Electroluminescence from a Thiophene-Based Insulated Molecular Wire. <i>ACS Macro Letters</i> , 2016 , 5, 781-785	6.6	21
373	Very high open-circuit voltage of 5.89 V in organic solar cells with 10-fold-tandem structure. <i>Applied Physics Letters</i> , 2012 , 100, 243302	3.4	21
372	High-current Injection and Transport on Order of kA/cm ² in Organic Light-emitting Diodes Having Mixed Organic/Organic Heterojunction Interfaces. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, L861-L863	1.4	21
371	Organic Light Emitting Diodes Using Triphenylene Derivatives as a Hole Transport Material. <i>Chemistry Letters</i> , 1998 , 27, 975-976	1.7	21
370	Hydrogen bond-modulated molecular packing and its applications in high-performance non-doped organic electroluminescence. <i>Materials Horizons</i> , 2020 , 7, 2734-2740	14.4	21
369	Slow recombination of spontaneously dissociated organic fluorophore excitons. <i>Nature Communications</i> , 2019 , 10, 5748	17.4	21
368	Excellent Semiconductors Based on Tetracenotetracene and Pentacenopentacene: From Stable Closed-Shell to Singlet Open-Shell. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9373-9381	16.4	20
367	Exciton Quenching Behavior of Thermally Activated Delayed Fluorescence Molecules by Charge Carriers. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 7631-7636	3.8	20

366	Benzimidazobenzothiazole-Based Bipolar Hosts to Harvest Nearly All of the Excitons from Blue Delayed Fluorescence and Phosphorescent Organic Light-Emitting Diodes. <i>Angewandte Chemie</i> , 2016 , 128, 6978-6982	3.6	20
365	Enhanced organic solar cells efficiency through electronic and electro-optic effects resulting from charge transfers in polymer hole transport blends. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4252-4263	13	20
364	Effect of Joule heating on transient current and electroluminescence in p-i-n organic light-emitting diodes under pulsed voltage operation. <i>Organic Electronics</i> , 2016 , 31, 287-294	3.5	20
363	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
362	Real-Time Measurement of Molecular Orientational Randomization Dynamics during Annealing Treatments by In-Situ Ellipsometry. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 11584-11588	3.8	20
361	Fluoro-substituted Phenyleneethynyls: Acetylenic n-Type Organic Semiconductors. <i>Chemistry Letters</i> , 2010 , 39, 1300-1302	1.7	20
360	Photophysical and Photocatalytic Properties of Sulfonatoporphycenes. <i>Chemistry Letters</i> , 2008 , 37, 264-265	1.7	20
359	Enhancing hole transports and generating hole traps by doping organic hole-transport layers with p-type molecules of 2,3,5,6-tetrafluoro-7,7,8,8-tetracyanoquinodimethane. <i>Thin Solid Films</i> , 2008 , 517, 874-877	2.2	20
358	Organic electroluminescent device with cyanine dye Langmuir-Blodgett film as an emitter. <i>Thin Solid Films</i> , 1992 , 210-211, 468-470	2.2	20
357	The Relation of Phase-Transition Effects and Thermal Stability of Planar Perovskite Solar Cells. <i>Advanced Science</i> , 2019 , 6, 1801079	13.6	20
356	Molecular orientation of disk-shaped small molecules exhibiting thermally activated delayed fluorescence in host-guest films. <i>Applied Physics Letters</i> , 2020 , 116, 023302	3.4	19
355	A designed fluorescent anthracene derivative: Theory, calculation, synthesis, and characterization. <i>Chemical Physics Letters</i> , 2014 , 602, 80-83	2.5	19
354	Multi-color light-emitting transistors composed of organic single crystals. <i>Organic Electronics</i> , 2013 , 14, 2737-2742	3.5	19
353	[Paper] Meta-linking Strategy for Thermally Activated Delayed Fluorescence Emitters with a Small Singlet-Triplet Energy Gap. <i>ITE Transactions on Media Technology and Applications</i> , 2015 , 3, 108-113	0.7	19
352	Solvent-dependent investigation of carbazole benzonitrile derivatives: does the LE ₃ TT1 energy gap facilitate thermally activated delayed fluorescence?. <i>Journal of Photonics for Energy</i> , 2018 , 8, 1	1.2	19
351	Organic long-persistent luminescence stimulated by visible light in p-type systems based on organic photoredox catalyst dopants. <i>Nature Materials</i> , 2021 ,	27	19
350	Observation of Nonradiative Deactivation Behavior from Singlet and Triplet States of Thermally Activated Delayed Fluorescence Emitters in Solution. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 562-566	6.4	19
349	Investigating HOMO Energy Levels of Terminal Emitters for Realizing High-Brightness and Stable TADF-Assisted Fluorescence Organic Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , 2021 , 7, 2001090	6.4	19

348	Origin of dual emission in bridged donor-acceptor TADF compounds. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 12601-12609	7.1	19
347	Detecting and identifying reversible changes in perovskite solar cells by electrochemical impedance spectroscopy.. <i>RSC Advances</i> , 2019 , 9, 33436-33445	3.7	19
346	Increasing the horizontal orientation of transition dipole moments in solution processed small molecular emitters. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6555-6562	7.1	18
345	Control of the dual emission from a thermally activated delayed fluorescence emitter containing phenothiazine units in organic light-emitting diodes.. <i>RSC Advances</i> , 2019 , 9, 4336-4343	3.7	18
344	Exciton-Exciton Annihilation in Thermally Activated Delayed Fluorescence Emitter. <i>Advanced Functional Materials</i> , 2020 , 30, 2000580	15.6	18
343	Well-Ordered 4CzIPN ((4s,6s)-2,4,5,6-Tetra(9-H-carbazol-9-yl)isophthalonitrile) Layers: Molecular Orientation, Electronic Structure, and Angular Distribution of Photoluminescence. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 863-867	6.4	18
342	Low-Threshold Light Amplification in Bifluorene Single Crystals: Role of the Trap States. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2768-2775	9.5	18
341	Single molecule color controllable light emitting organic field effect transistors for white light emission with high color stability. <i>Applied Physics Letters</i> , 2009 , 95, 063303	3.4	18
340	Alignment-free process for asymmetric contact electrodes and their application in light-emitting organic field-effect transistors. <i>Applied Physics Letters</i> , 2008 , 92, 053505	3.4	18
339	Analysis of Carrier Traps in Continuously Operated 4,4'-bis[N-(1-naphthyl)-N-phenyl-amino]biphenyl/tris(8-hydroxyquinoline)aluminum-Based Organic Light-Emitting Diodes by Thermally Stimulated Current Measurement. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, L636-L639	1.4	18
338	Photosensitizing properties of the porphycene immobilized in sol-gel derived silica coating films. <i>Tetrahedron Letters</i> , 2008 , 49, 6198-6201	2	18
337	ELECTROLUMINESCENCE IN ORGANIC THIN FILMS 1991 , 437-450		18
336	The Leap from Organic Light-Emitting Diodes to Organic Semiconductor Laser Diodes. <i>CCS Chemistry</i> , 2020 , 2, 1203-1216	7.2	18
335	Long-Persistent Luminescence from an Exciplex-Based Organic Light-Emitting Diode. <i>Advanced Materials</i> , 2021 , 33, e2008844	24	18
334	Influence of material impurities in the hole-blocking layer on the lifetime of organic light-emitting diodes. <i>Applied Physics Letters</i> , 2016 , 109, 243302	3.4	18
333	Thermally activated delayed fluorescence of a Zr-based metal-organic framework. <i>Chemical Communications</i> , 2018 , 54, 631-634	5.8	17
332	The Importance of Excited-State Energy Alignment for Efficient Exciplex Systems Based on a Study of Phenylpyridinato Boron Derivatives. <i>Angewandte Chemie</i> , 2018 , 130, 12560-12564	3.6	17
331	Enhanced Electroluminescence from Organic Light-Emitting Diodes with an Organic-Inorganic Perovskite Host Layer. <i>Advanced Materials</i> , 2018 , 30, e1802662	24	17

330	Photo-patternable electroluminescence based on one-way photoisomerization reaction of tetraoxidized triangle terarylenes. <i>Chemical Communications</i> , 2013 , 49, 6373-5	5.8	17
329	Influence of heat treatment on indium tin-oxide anodes and copper phthalocyanine hole injection layers in organic light-emitting diodes. <i>Thin Solid Films</i> , 2007 , 515, 4812-4818	2.2	17
328	Observation of Extremely High Current Densities on Order of MA/cm ² in Copper Phthalocyanine Thin-Film Devices with Submicron Active Areas. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, L1179-L1181	1.1	17
327	Degradation Mechanism and Stability Improvement Strategy for an Organic Laser Gain Material 4,4'-Bis[(N-carbazole)styryl]biphenyl (BSBCz). <i>Advanced Functional Materials</i> , 2019 , 29, 1807148	15.6	16
326	Photometric flow injection determination of phosphate on a PDMS microchip using an optical detection system assembled with an organic light emitting diode and an organic photodiode. <i>Talanta</i> , 2015 , 132, 96-105	6.2	16
325	Plasma-tolerant structure for organic light-emitting diodes with aluminum cathodes fabricated by DC magnetron sputtering: Using a Li-doped electron transport layer. <i>Organic Electronics</i> , 2013 , 14, 2994-2999	3.5	16
324	Vacuum-and-solvent-free fabrication of organic semiconductor layers for field-effect transistors. <i>Scientific Reports</i> , 2015 , 5, 14547	4.9	16
323	Fabrication of high-efficiency multilayered organic light-emitting diodes by a film transfer method. <i>Organic Electronics</i> , 2014 , 15, 1695-1701	3.5	16
322	Organic Single-Crystal Transistors Based on Extended Heteroheptacene Microribbons. <i>Bulletin of the Chemical Society of Japan</i> , 2012 , 85, 1186-1191	5.1	16
321	Charge separation and transport behavior of a two-dimensional charge sheet at organic donor-acceptor heterointerfaces. <i>Journal of Applied Physics</i> , 2009 , 105, 114502	2.5	16
320	High efficiency blue light emitting unipolar transistor incorporating multifunctional electrodes. <i>Applied Physics Letters</i> , 2009 , 94, 153307	3.4	16
319	Spectrally Narrow Emission at Cutoff Wavelength from Edge of Electrically Pumped Organic Light-Emitting Diodes. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, L826-L829	1.4	16
318	Blue Organic Electrophosphorescence Diodes using Diarylamino-substituted Heterocyclic Compounds as Host Material. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2007 , 20, 47-51	0.7	16
317	Suppression of external quantum efficiency rolloff in organic light emitting diodes by scavenging triplet excitons. <i>Nature Communications</i> , 2020 , 11, 4926	17.4	16
316	Fabrication-method Independence of Organic Long-persistent Luminescence Performance. <i>Chemistry Letters</i> , 2019 , 48, 270-273	1.7	16
315	Effects of Intramolecular Donor-Acceptor Interactions on Bimolecular Recombination in Small-Molecule Organic Photovoltaic Cells. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 4986-4991	3.8	15
314	An organic thin film photodiode as a portable photodetector for the detection of alkylphenol polyethoxylates by a flow fluorescence-immunoassay on magnetic microbeads in a microchannel. <i>Talanta</i> , 2013 , 117, 139-45	6.2	15
313	Highly photostable distributed-feedback polymer waveguide blue laser using spirobifluorene derivatives. <i>Optical Materials</i> , 2011 , 33, 755-758	3.3	15

312	Tetrabenzo[a,c]phenazine Backbone for Highly Efficient Orange-Red Thermally Activated Delayed Fluorescence with Completely Horizontal Molecular Orientation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19364-19373	16.4	15
311	Highly Efficient Thermally Activated Delayed Fluorescence with Slow Reverse Intersystem Crossing. <i>Chemistry Letters</i> , 2019 , 48, 126-129	1.7	15
310	Deep-Red Amplified Spontaneous Emission from cis-Configured Squaraine. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 27-31	9.5	15
309	Fluorometric flow-immunoassay for alkylphenol polyethoxylates on a microchip containing a fluorescence detector comprised of an organic light emitting diode and an organic photodiode. <i>Talanta</i> , 2015 , 134, 37-47	6.2	14
308	Understanding degradation of organic light-emitting diodes from magnetic field effects. <i>Communications Materials</i> , 2020 , 1,	6	14
307	An Organic Laser Dye having a Small Singlet-Triplet Energy Gap Makes the Selection of a Host Material Easier. <i>Advanced Functional Materials</i> , 2020 , 30, 2001078	15.6	14
306	Synthesis by a Cost-Effective Method and Electroluminescence of a Novel Efficient Yellowish-Green Thermally Activated Delayed Fluorescent Molecule. <i>ACS Omega</i> , 2018 , 3, 2254-2260	3.9	14
305	Horizontal molecular orientation of light-emitting oligofluorenes in spin-coated glassy organic thin films. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 11557-11565	7.1	14
304	Quantification of temperature rise in unipolar organic conductors during short voltage-pulse excitation using electrical testing methods. <i>Organic Electronics</i> , 2016 , 31, 191-197	3.5	14
303	Enhancement of the electrical characteristics of metal-free phthalocyanine films using cold isostatic pressing. <i>Applied Physics Letters</i> , 2014 , 105, 243301	3.4	14
302	Durability Characteristics of Aminopyrene Dimer Molecules as an Emitter in Organic Multilayered Electroluminescent Diodes. <i>Japanese Journal of Applied Physics</i> , 1996 , 35, 4819-4825	1.4	14
301	Microcrystallization of a Solution-Processable Organic Semiconductor in Capillaries for High-Performance Ambipolar Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17574-82	9.5	14
300	Blue Thermally Activated Delayed Fluorescence Molecule Having Acridane and Cyanobenzene Units. <i>Chemistry Letters</i> , 2016 , 45, 1463-1466	1.7	14
299	An Electron-Accepting aza-BODIPY-Based Donor-Acceptor-Donor Architecture for Bright NIR Emission. <i>Chemistry - A European Journal</i> , 2021 , 27, 5259-5267	4.8	14
298	Photostable and highly emissive glassy organic dots exhibiting thermally activated delayed fluorescence. <i>Chemical Communications</i> , 2019 , 55, 5215-5218	5.8	13
297	Molecular Design Based on Donor-Weak Donor Scaffold for Blue Thermally-Activated Delayed Fluorescence Designed by Combinatorial DFT Calculations. <i>Frontiers in Chemistry</i> , 2020 , 8, 403	5	13
296	Excited State Dynamics of Thermally Activated Delayed Fluorescence from an Excited State Intramolecular Proton Transfer System. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3305-3312	6.4	13
295	Effect of Vibronic Coupling on Correlated Triplet Pair Formation in the Singlet Fission Process of Linked Tetracene Dimers. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 3641-3651	2.8	13

294	Triplet-triplet annihilation in a thermally activated delayed fluorescence emitter lightly doped in a host. <i>Applied Physics Letters</i> , 2018 , 113, 083301	3.4	13
293	Enhanced out-coupling efficiency of organic light-emitting diodes using an nanostructure imprinted by an alumina nanohole array. <i>Applied Physics Letters</i> , 2014 , 104, 121102	3.4	13
292	Analysis of alternating current driven electroluminescence in organic light emitting diodes: A comparative study. <i>Organic Electronics</i> , 2014 , 15, 1815-1821	3.5	13
291	Droplet manipulation by an external electric field for crystalline film growth. <i>Langmuir</i> , 2013 , 29, 9592-74		13
290	High Carrier Mobility of $3.8 \text{ cm}^2 \text{ V}^{-1} \text{ s}^{-1}$ in Polydiacetylene Thin Films Polymerized by Electron Beam Irradiation. <i>Applied Physics Express</i> , 2011 , 4, 091601	2.4	13
289	Highly conductive interface between a rubrene single crystal and a molybdenum oxide layer and its application in transistors. <i>Solid State Communications</i> , 2011 , 151, 93-96	1.6	13
288	Highly Efficient Organic Light-Emitting Diodes Doped with Thiophene/Phenylene Co-Oligomer. <i>Chemistry of Materials</i> , 2008 , 20, 2881-2883	9.6	13
287	Alternating copolyfluorenevinyles with polynuclear aromatic moieties: Synthesis, photophysics, and electroluminescence. <i>Journal of Polymer Science Part A</i> , 2007 , 45, 4661-4670	2.5	13
286	Carrier Injection and Transport of Steady-State High Current Density Exceeding 1000 A/cm^2 in Organic Thin Films*. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, L1353-L1355	1.4	13
285	Highly Efficient Near-Infrared Electrofluorescence from a Thermally Activated Delayed Fluorescence Molecule. <i>Angewandte Chemie</i> , 2021 , 133, 8558-8563	3.6	13
284	Enhancing spin-orbital coupling in deep-blue/blue TADF emitters by minimizing the distance from the heteroatoms in donors to acceptors. <i>Chemical Engineering Journal</i> , 2021 , 420, 127591	14.7	13
283	Bifluorene Single Crystals with Extremely Low-Threshold Amplified Spontaneous Emission. <i>Advanced Optical Materials</i> , 2017 , 5, 1600823	8.1	12
282	A solvent-free and vacuum-free melt-processing method to fabricate organic semiconducting layers with large crystal size for organic electronic applications. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 3190-3198	7.1	12
281	Seamless growth of a supramolecular carpet. <i>Nature Communications</i> , 2016 , 7, 10653	17.4	12
280	Analysis of electron traps formed in organic films with a sputtered cathode. <i>Organic Electronics</i> , 2014 , 15, 2783-2791	3.5	12
279	Reduced amplified spontaneous emission threshold in organic semiconductor laser structure with relaxed roll-off characteristics under high current densities. <i>Journal of Luminescence</i> , 2013 , 143, 754-758 ^{3.8}		12
278	Low-Damage Indium Tin Oxide Formation on Organic Layers Using Unique Cylindrical Sputtering Module and Application in Transparent Organic Light-Emitting Diodes. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, L213-L216	1.4	12
277	A $200 \text{ nm} \times 1 \text{ mm}$ array of organic light-emitting diodes and their anisotropic electroluminescence. <i>Applied Physics Letters</i> , 1999 , 74, 1206-1208	3.4	12

276	Utilization of Multi-Heterodonors in Thermally Activated Delayed Fluorescence Molecules and Their High Performance Bluish-Green Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 9498-9506	9.5	12
275	Thermally Activated Delayed Fluorescence Properties of Trioxoazatriangulene Derivatives Modified with Electron Donating Groups. <i>Advanced Optical Materials</i> , 2021 , 9, 2002174	8.1	12
274	Quenching Behavior of Thermally Activated Delayed Fluorescence from a Donor-Acceptor Molecule, 1,2,3,5-Tetrakis(carbazol-9-yl)-4,6-dicyanobenzene by O ₂ . <i>Chemistry Letters</i> , 2016 , 45, 1183-1185	1.7	12
273	Computational Analysis of the Interplay between Deep Level Traps and Perovskite Solar Cell Efficiency. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15655-15660	16.4	12
272	Mini-Review on Efficiency and Stability of Perovskite Solar Cells with Spiro-OMeTAD Hole Transport Layer: Recent Progress and Perspectives. <i>Energy & Fuels</i> ,	4.1	12
271	Joule heat-induced breakdown of organic thin-film devices under pulse operation. <i>Journal of Applied Physics</i> , 2017 , 121, 195503	2.5	11
270	Toward air-stable field-effect transistors with a tin iodide-based hybrid perovskite semiconductor. <i>Journal of Applied Physics</i> , 2019 , 125, 235501	2.5	11
269	F8BT Oligomers for Organic Solid-State Lasers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 28383-28391	2.5	11
268	High EQE and High Brightness Solution-Processed TADF Light-Emitting Transistors and OLEDs. <i>Advanced Optical Materials</i> , 2020 , 8, 2000554	8.1	11
267	37.1: Invited Paper: Third Generation OLED by Hyperfluorescence. <i>Digest of Technical Papers SID International Symposium</i> , 2013 , 44, 513-514	0.5	11
266	Molecular Design for Blue Thermal Activated Delayed Fluorescence Materials: Substitution Position Effect. <i>Chemistry Letters</i> , 2017 , 46, 1490-1492	1.7	11
265	An integrated enzyme-linked immunosorbent assay system with an organic light-emitting diode and a charge-coupled device for fluorescence detection. <i>Journal of Separation Science</i> , 2011 , 34, 2906-1234	2.4	11
264	Photophysical characteristics of 4,4'-bis(N-carbazolyl)tolan derivatives and their application in organic light emitting diodes. <i>Journal of Luminescence</i> , 2011 , 131, 1520-1524	3.8	11
263	Submicrometer-Sized Organic Light Emitting Diodes with a Triphenylamine-Containing Polycarbonate as a Guest Molecule in a Polymer Blend. <i>Japanese Journal of Applied Physics</i> , 1997 , 36, L827-L830	1.4	11
262	Finite difference time domain analysis of the light extraction efficiency in organic light-emitting field-effect transistors. <i>Journal of Applied Physics</i> , 2008 , 104, 033116	2.5	11
261	Molecular LED: Design Concept of Molecular Materials for High-Performance OLED 2004 , 43-69		11
260	Low Threshold Gain-Narrowing Characteristics of Fluorescent Styrylbenzene Derivatives as a Guest Molecule in an Organic Thin-Film Optical Waveguide. <i>Chemistry Letters</i> , 2000 , 29, 754-755	1.7	11
259	Solid cyclooctatetraene-based triplet quencher demonstrating excellent suppression of singlet-triplet annihilation in optical and electrical excitation. <i>Nature Communications</i> , 2020 , 11, 5623	17.4	11

258	Modulating the ground state, stability and charge transport in OFETs of biradicaloid hexahydro-diindenopyrene derivatives and a proposed method to estimate the biradical character. <i>Chemical Science</i> , 2020 , 11, 12194-12205	9.4	11
257	High-coverage organic-inorganic perovskite film fabricated by double spin coating for improved solar power conversion and amplified spontaneous emission. <i>Chemical Physics Letters</i> , 2016 , 661, 131-135	3.5	11
256	Characterizing the Conformational Distribution in an Amorphous Film of an Organic Emitter and Its Application in a "Self-Doping" Organic Light-Emitting Diode. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25878-25883	16.4	11
255	Singlet-Triplet Exciton Annihilation Nearly Suppressed in Organic Semiconductor Laser Materials Using Oxygen as a Triplet Quencher. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016 , 22, 26-34	3.8	10
254	Enhanced near-infrared electroluminescence from a neodymium complex in organic light-emitting diodes with a solution-processed exciplex host. <i>Applied Physics Letters</i> , 2019 , 114, 033301	3.4	10
253	Enhancing Small-Molecule Organic Photodetector Performance for Reflectance-Mode Photoplethysmography Sensor Applications. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1280-1288	4	10
252	Reversible control of triplet dynamics in metal-organic framework-entrapped organic emitters via external gases. <i>Communications Chemistry</i> , 2018 , 1,	6.3	10
251	Self-assembly, Physicochemical, and Field-effect Transistor Properties of Solution-crystallized Organic Semiconductors Based on [Extended Dithieno[3,2-b:2',3'-d]thiophenes. <i>Chemistry Letters</i> , 2014 , 43, 293-295	1.7	10
250	Introduction of oxygen into organic thin films with the aim of suppressing singlet-triplet annihilation. <i>Chemical Physics Letters</i> , 2015 , 624, 43-46	2.5	10
249	Nanocrystal Growth and Improved Performance of Small Molecule Bulk Heterojunction Solar Cells Composed of a Blend of Chloroaluminum Phthalocyanine and C70. <i>Applied Physics Express</i> , 2010 , 3, 121602	2.4	10
248	Very low amplified spontaneous emission threshold and electroluminescence characteristics of 1,1'-diphenyl substituted fluorene derivatives. <i>Optical Materials</i> , 2007 , 30, 630-636	3.3	10
247	Low driving voltage organic light emitting diode using phenanthrene oligomers as electron transport layer. <i>Thin Solid Films</i> , 2008 , 516, 8717-8720	2.2	10
246	A high mobility ambipolar field effect transistor using a 2,6-diphenylbenzo[1,2-b:4,5-b']diselenophene/fullerene double layer. <i>Solid State Communications</i> , 2008 , 145, 114-117	1.6	10
245	Bright electroluminescence from single-layer organic light-emitting diodes comprising an ambipolar carrier transport layer of phenyldipyrenylphosphine oxide. <i>Thin Solid Films</i> , 2008 , 516, 4288-4292	2.3	10
244	Optical and Electrical Properties of Bis(4-(phenylethynyl)phenyl)ethynes and Their Application to Organic Field-Effect Transistors. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, L1331-L1333	1.4	10
243	Electroluminescence in multilayer organic dye films. <i>Synthetic Metals</i> , 1991 , 41, 1193-1196	3.6	10
242	Intersystem Crossing Rate in Thermally Activated Delayed Fluorescence Emitters. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 1900616	1.6	10
241	Lasing Operation under Long-Pulse Excitation in Solution-Processed Organic Gain Medium: Toward CW Lasing in Organic Semiconductors. <i>Advanced Optical Materials</i> , 2020 , 8, 2001234	8.1	10

240	Luminescent Cu(I) and Ag(I) coordination polymers: Fast phosphorescence or thermally activated delayed fluorescence. <i>Chinese Chemical Letters</i> , 2019 , 30, 1931-1934	8.1	9
239	Dependence of the amorphous structures and photoluminescence properties of tris(8-hydroxyquinolino)aluminum films on vacuum deposition conditions. <i>Organic Electronics</i> , 2019 , 67, 237-241	3.5	9
238	Improvement in the light outcoupling efficiency of organic light-emitting diodes using a hemispherical lens and a multipatterned one-dimensional photonic crystal fabricated by autocloning. <i>Applied Physics Express</i> , 2015 , 8, 082102	2.4	9
237	Application of wide-energy-gap material 3,4-di(9H-carbazol-9-yl) benzonitrile in organic light-emitting diodes. <i>Thin Solid Films</i> , 2016 , 619, 120-124	2.2	9
236	Accurate measurement of dopant concentration in organic light-emitting diodes by combining high-performance liquid chromatography and TOF-SIMS. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014 , 32, 030604	1.3	9
235	Reorganization of the molecular orientation at the organic/substrate interface in spirofluorene thin films. <i>Chemical Physics Letters</i> , 2013 , 563, 70-75	2.5	9
234	Formation of high-purity organic thin films by gas flow deposition and the effect of impurities on device characteristics. <i>Displays</i> , 2013 , 34, 418-422	3.4	9
233	Enhanced Energy Transfer in Doped Bifluorene Single Crystals: Prospects for Organic Lasers. <i>Advanced Optical Materials</i> , 2020 , 8, 1901670	8.1	9
232	Solution-Processed Dendrimer-Based TADF Materials for Deep-Red OLEDs. <i>Macromolecules</i> , 2020 , 53, 10375-10385	5.5	9
231	Color-Tunable Low-Threshold Amplified Spontaneous Emission from Yellow to Near-Infrared (NIR) Based on Donor-Spacer-Acceptor-Spacer-Donor Linear Dyes 2020 , 2, 1567-1574		9
230	Synthesis, crystal structure and charge transport characteristics of stable -tetracene analogues. <i>Chemical Science</i> , 2020 , 12, 552-558	9.4	9
229	TADF activation by solvent freezing: The role of nonradiative triplet decay and spin-orbit coupling in carbazole benzonitrile derivatives. <i>Synthetic Metals</i> , 2019 , 252, 62-68	3.6	8
228	Tetraphenyldibenzoperiflanthene as sensitizer for enhancing the performance in dinaphthothienothiophene-based photovoltaics with and without fullerene. <i>Synthetic Metals</i> , 2015 , 205, 121-126	3.6	8
227	Comparison of transient state and steady state exciton-exciton annihilation rates based on Förster-type energy transfer. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 071601	1.4	8
226	Near-infrared absorbing pyrrolopyrrole aza-BODIPY-based donor-acceptor polymers with reasonable photoresponse. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 8770-8776	7.1	8
225	Exciton diffusion in bifluorene single crystals studied by light induced transient grating technique. <i>Applied Physics Letters</i> , 2018 , 112, 033302	3.4	8
224	58-2: Revealing the Excited-state Dynamics of Thermally Activated Delayed Fluorescence Molecules by using Transient Absorption Spectroscopy. <i>Digest of Technical Papers SID International Symposium</i> , 2016 , 47, 786-789	0.5	8
223	Origin of external quantum efficiency roll-off in 4,4'-bis[(N-carbazole)styryl]biphenyl (BSBCz)-based inverted organic light emitting diode under high pulsed electrical excitation. <i>Journal of Applied Physics</i> , 2019 , 126, 185501	2.5	8

222	Dipole orientation analysis without optical simulation: application to thermally activated delayed fluorescence emitters doped in host matrix. <i>Scientific Reports</i> , 2017 , 7, 8405	4.9	8
221	Synthesis and characterization of CdSe nanocrystals capped with TOPO and pyridine. <i>Journal of Crystal Growth</i> , 2012 , 339, 22-30	1.6	8
220	Triphenylene-based Host Materials for Low-voltage, Highly Efficient Red Phosphorescent Organic Light-emitting Diodes. <i>Chemistry Letters</i> , 2013 , 42, 383-385	1.7	8
219	Control of the molecular orientation of a 2,2'-bithiophene-9,9-dioctylfluorene copolymer by laser annealing and subsequent enhancement of the field effect transistor characteristics. <i>Applied Physics Letters</i> , 2009 , 95, 073303	3.4	8
218	Oxadiazole Derivatives for Emitter and Carrier Transport Materials in Organic Electroluminescent Devices.. <i>Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal</i> , 1991 , 1540-1548		8
217	Low Amplified Spontaneous Emission and Lasing Thresholds from Hybrids of Fluorenes and Vinylphenylcarbazole. <i>Advanced Optical Materials</i> , 2020 , 8, 2000784	8.1	8
216	Field-effect transistors with vacuum-deposited organic-inorganic perovskite films as semiconductor channels. <i>Journal of Applied Physics</i> , 2016 , 120, 233301	2.5	8
215	The origin of changes in electrical properties of organic films fabricated at various vacuum-deposition rates. <i>Optical Materials</i> , 2019 , 91, 93-100	3.3	7
214	Influence of deposition substrate temperature on the morphology and molecular orientation of chloroaluminum phthalocyanine films as well the performance of organic photovoltaic cells. <i>Nanotechnology</i> , 2015 , 26, 405202	3.4	7
213	Solution-processable thermally activated delayed fluorescence emitters for application in organic light emitting diodes. <i>Journal of the Society for Information Display</i> , 2017 , 25, 480-485	2.1	7
212	Material degradation of liquid organic semiconductors analyzed by nuclear magnetic resonance spectroscopy. <i>AIP Advances</i> , 2015 , 5, 087124	1.5	7
211	Improved Device Lifetime of Organic Light Emitting Diodes with an Electrochemically Stable Φ -Conjugated Liquid Host in the Liquid Emitting Layer. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 041604	1.4	7
210	Photophysical study of iridium complexes by absolute photoluminescence quantum yield measurements using an integrating sphere 2009 ,		7
209	Temperature-independent electron tunneling injection in tris (8-hydroxyquinoline) aluminum thin film from high-work-function gold electrode. <i>Thin Solid Films</i> , 2008 , 516, 5069-5074	2.2	7
208	Emission properties of thermally activated delayed fluorescence emitters: analysis based on a four-level model considering a higher triplet excited state. <i>Journal of Photonics for Energy</i> , 2018 , 8, 1	1.2	7
207	Hot exciplexes in U-shaped TADF molecules with emission from locally excited states. <i>Nature Communications</i> , 2021 , 12, 6179	17.4	7
206	Intramolecular-rotation driven triplet-to-singlet upconversion and fluctuation induced fluorescence activation in linearly connected donor-acceptor molecules. <i>Journal of Chemical Physics</i> , 2020 , 153, 204702	3.9	7
205	Origin and Suppression of External Quantum Efficiency Roll-Off in Quasi-Two-Dimensional Metal Halide Perovskite Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 27422-27428	3.8	7

204	Excited-state stability of quasi-two-dimensional metal halide perovskite films under optical and electrical excitations. <i>Applied Physics Letters</i> , 2019 , 115, 233502	3.4	7
203	Realizing Near-Infrared Laser Dyes through a Shift in Excited-State Absorption. <i>Advanced Optical Materials</i> , 2021 , 9, 2001947	8.1	7
202	Isotope Effect of Host Material on Device Stability of Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes. <i>Small Science</i> , 2021 , 1, 2000057		7
201	Anisotropy of Thermal Diffusivity in Lead Halide Perovskite Layers Revealed by Thermal Grating Technique. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 14914-14920	3.8	6
200	Killer impurities in vacuum chamber that affect the lifetime of organic light-emitting diodes. <i>Applied Physics Letters</i> , 2020 , 116, 143301	3.4	6
199	Synthesis and physical properties of brominated hexacene and hole-transfer properties of thin-film transistors.. <i>RSC Advances</i> , 2018 , 8, 13259-13265	3.7	6
198	Simultaneous Edge-on to Face-on Reorientation and 1D Alignment of Small Conjugated Molecules Using Room-Temperature Mechanical Rubbing. <i>Advanced Functional Materials</i> , 2018 , 28, 1707038	15.6	6
197	Vacuum chamber considerations for improved organic light-emitting diode lifetime. <i>AIP Advances</i> , 2018 , 8, 085025	1.5	6
196	Thermally activated delayed fluorescence of Bis(9,9-dimethyl-9,10-dihydroacridine) dibenzo[b,d]thiophene 5,5-dioxide derivatives for organic light-emitting diodes. <i>Journal of Luminescence</i> , 2017 , 190, 485-491	3.8	6
195	High-Efficiency Sky-Blue Organic Light-Emitting Diodes Utilizing Thermally-Activated Delayed Fluorescence. <i>IEICE Transactions on Electronics</i> , 2015 , E98.C, 971-976	0.4	6
194	Mixing Effect of Gold and Silver Nanoparticles on Enhancement in Performance of Organic Thin-Film Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 122301	1.4	6
193	Molecular Design of High-molecular-orientation Electron-transport Materials and Application to Organic Light-emitting Diodes. <i>Chemistry Letters</i> , 2013 , 42, 651-653	1.7	6
192	Formation of MgAu alloy cathode by photolithography and its application to organic light-emitting diodes and organic field effect transistors. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)</i> , 2005 , 152, 37-42	0.4	6
191	Role of Spontaneous Orientational Polarization in Organic Donor-Acceptor Blends for Exciton Binding. <i>Advanced Optical Materials</i> , 2020 , 8, 2000896	8.1	6
190	Markedly Improved Performance of Optically Pumped Organic Lasers with Two-Dimensional Distributed-Feedback Gratings. <i>ACS Photonics</i> , 2021 , 8, 1324-1334	6.3	6
189	Planar and Rigid Pyrazine-Based TADF Emitter for Deep Blue Bright Organic Light-Emitting Diodes. <i>European Journal of Organic Chemistry</i> , 2021 , 2021, 2285-2293	3.2	6
188	Unintentional passivation of 4-tertbutyl pyridine for improved efficiency and decreased operational stability of perovskite solar cells. <i>Applied Physics Letters</i> , 2021 , 118, 241603	3.4	6
187	Thermally activated processes in an organic long-persistent luminescence system. <i>Nanoscale</i> , 2021 , 13, 8412-8417	7.7	6

186	Enhanced Light-Matter Interaction and Polariton Relaxation by the Control of Molecular Orientation. <i>Advanced Optical Materials</i> , 2021 , 9, 2101048	8.1	6
185	Influence of the organic film thickness on the second order distributed feedback resonator properties of an organic semiconductor laser. <i>Journal of Applied Physics</i> , 2017 , 121, 233107	2.5	5
184	Effect of 3,4,9,10-perylenetetracarboxylic bisbenzimidazole (PTCBI) as well as bathocuproine (BCP) and Ag interlayer thickness on the performance of organic tandem solar cells. <i>Synthetic Metals</i> , 2016 , 221, 179-185	3.6	5
183	Thermally Activated Delayed Fluorescence from Pentacarbazorylbenzotrile. <i>Chemistry Letters</i> , 2016 , 45, 770-772	1.7	5
182	Current Enhancement in Organic Films through Gap Compression by Cold and Hot Isostatic Pressing. <i>Advanced Functional Materials</i> , 2016 , 26, 2940-2949	15.6	5
181	Molecular design of highly effective thermally activated delayed fluorescence emitters based on ortho-substituted donor-acceptor-donor pyridinecarbonitrile derivatives and their application for high-performance OLEDs. <i>Dyes and Pigments</i> , 2019 , 171, 107775	4.6	5
180	Carrier Recombination and Diffusion in Wet-Cast Tin Iodide Perovskite Layers Under High Intensity Photoexcitation. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 19275-19281	3.8	5
179	Strong luminescence behavior of mono- and dimeric imidazoquinazolines: Swift OLED degradation under electrical current. <i>Journal of Luminescence</i> , 2017 , 181, 252-260	3.8	5
178	Solar Cells: Extended Narrow-Bandgap Diketopyrrolopyrrole-Based Oligomers for Solution-Processed Inverted Organic Solar Cells (Adv. Energy Mater. 17/2014). <i>Advanced Energy Materials</i> , 2014 , 4, n/a-n/a	21.8	5
177	52.3: Understanding Extrinsic Degradation in Phosphorescent OLEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2014 , 45, 758-761	0.5	5
176	Dependence of polarization splitting on mode tuning in microcavities. <i>Applied Physics Letters</i> , 2009 , 95, 191106	3.4	5
175	Molecular Modification of 2,7-Diphenyl[1]benzothieno[3,2-b]benzothiophene (DPh-BTBT) with Diarylamino Substituents: From Crystalline Order to Amorphous State in Evaporated Thin Films. <i>Chemistry Letters</i> , 2009 , 38, 420-421	1.7	5
174	Preparation under High Humidity Conditions of Nanoporous Polymer Film with 80 nm Minimum Pore Size. <i>Applied Physics Express</i> , 2010 , 3, 025201	2.4	5
173	Roll-Off Characteristics of Electroluminescence Efficiency of Organic Blue Electrophosphorescence Diodes. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 7363-7365	1.4	5
172	Evaluating Origin of Electron Traps in Tris(8-hydroxyquinoline) Aluminum Thin Films using Thermally Stimulated Current Technique. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 1748-1752	1.4	5
171	Efficient Electron Injection Characteristics of Tetra-2-pyridinylpyrazine (TPP) in Organic Light Emitting Diodes. <i>Chemistry Letters</i> , 2003 , 32, 388-389	1.7	5
170	Electroluminescent Behavior of Oxadiazole Derivatives in Liquid-Crystalline Media. <i>Molecular Crystals and Liquid Crystals</i> , 2001 , 365, 129-138		5
169	Efficiency of Thermally Activated Delayed Fluorescence Sensitized Triplet Upconversion Doubled in Three-Component System. <i>Advanced Materials</i> , 2021 , e2103976	24	5

168	Highly effective nicotinonitrile-derivatives-based thermally activated delayed fluorescence emitter with asymmetric molecular architecture for high-performance organic light-emitting diodes. <i>Dyes and Pigments</i> , 2020 , 172, 107849	4.6	5
167	High performance planar microcavity organic semiconductor lasers based on thermally evaporated top distributed Bragg reflector. <i>Applied Physics Letters</i> , 2020 , 117, 153301	3.4	5
166	Highly effective organic light-emitting diodes containing thermally activated delayed fluorescence emitters with horizontal molecular orientation.. <i>RSC Advances</i> , 2020 , 10, 42897-42902	3.7	5
165	Surface Segregation of a Star-Shaped Polyhedral Oligomeric Silsesquioxane in a Polymer Matrix. <i>Langmuir</i> , 2020 , 36, 9960-9966	4	5
164	Heptacene: Synthesis and Its Hole-Transfer Property in Stable Thin Films. <i>Chemistry - A European Journal</i> , 2021 , 27, 10677-10684	4.8	5
163	Toward Thing-to-Thing Optical Wireless Power Transfer: Metal Halide Perovskite Transceiver as an Enabler. <i>Frontiers in Energy Research</i> , 2021 , 9,	3.8	5
162	An Element-Substituted Cyclobutadiene Exhibiting High-Energy Blue Phosphorescence. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 21817-21823	16.4	5
161	Star-shaped and linear π -conjugated oligomers consisting of a tetrathienoanthracene core and multiple diketopyrrolopyrrole arms for organic solar cells. <i>Beilstein Journal of Organic Chemistry</i> , 2016 , 12, 1459-66	2.5	5
160	06-16 THz band spectroscopy of organic thermally activated delayed fluorescence materials. <i>Optical Materials Express</i> , 2016 , 6, 3045	2.6	5
159	Photoactive Organic/Inorganic Hybrid Materials with Nanosegregated Donor-Acceptor Arrays. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 8419-8424	16.4	5
158	Visualization of Frontier Molecular Orbital Separation of a Single Thermally Activated Delayed Fluorescence Emitter by STM. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 7512-7518	6.4	5
157	Exact Solution of Kinetic Analysis for Thermally Activated Delayed Fluorescence Materials. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 8074-8089	2.8	5
156	Enhanced Operational Durability of Thermally Activated Delayed Fluorescence-Based Organic Light-Emitting Diodes with a Triazine Electron Transporter. <i>Chemistry - A European Journal</i> , 2020 , 26, 5598-5602	4.8	5
155	Electrogenerated Chemiluminescence and Electronic States of Several Organometallic Eu(III) and Tb(III) Complexes: Effects of the Ligands. <i>ChemistrySelect</i> , 2019 , 4, 2815-2831	1.8	4
154	Organic Light-Emitting Diodes (OLEDs): Materials, Photophysics, and Device Physics 2015 , 43-73		4
153	Sub-Microsecond TADF Emission in D-D'-A Emitters. <i>Chemistry Letters</i> , 2020 , 49, 932-935	1.7	4
152	A 1,4,5,8,9,11-hexaazatriphenylenehexacarbonitrile (HAT-CN) transport layer with high electron mobility for thick organic light-emitting diodes. <i>AIP Advances</i> , 2020 , 10, 055304	1.5	4
151	Electrogenerated Chemiluminescence of a BODIPY Derivative with Extended Conjugation. <i>ChemistrySelect</i> , 2017 , 2, 10531-10536	1.8	4

150	Introduction of F 4 -TCNQ/MoO 3 layers for thermoelectric devices based on pentacene. <i>Chinese Physics B</i> , 2014 , 23, 098502	1.2	4
149	Microfluidic organic light emitting diode (OLED) using liquid organic semiconductors 2012 ,		4
148	Reversible Coloration Enhanced by Electrochemical Deposition of an Ultrathin Zinc Layer onto an Anodic Nanoporous Alumina Layer. <i>Advanced Functional Materials</i> , 2012 , 22, 4195-4201	15.6	4
147	Displacement Current Measurement for Exploring Charge Carrier Dynamics in Organic Semiconductor Devices 2013 , 119-154		4
146	3,6-Diarylcarbazole Derivatives as a Host Material in Organic Electrophosphorescent Diodes. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 080208	1.4	4
145	Special Articles on Organic and Inorganic Optical Materials. Relation between Molecular Structures of Dyes and Photovoltaic Properties in Tow-Layer Organic Solar Cells Using Phthalocyanines and Perylenetetracarboxylic Acid Derivatives.. <i>Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry, Physical Chemistry Journal</i> , 2002 , 1999, 1151-1154		4
144	Probing polaron-induced exciton quenching in TADF based organic light-emitting diodes.. <i>Nature Communications</i> , 2022 , 13, 254	17.4	4
143	Synthesis, Aromaticity, and Application of peri-Pentacenopentacene: Localized Representation of Benzenoid Aromatic Compounds. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	4
142	Managing Intersegmental Charge-Transfer and Multiple Resonance Alignments of D3-A Typed TADF Emitters for Red OLEDs with Improved Efficiency and Color Purity. <i>Advanced Optical Materials</i> , 2101789	8.1	4
141	Recycling of Triplets into Singlets for High-Performance Organic Lasers. <i>Advanced Optical Materials</i> , 2101802	13.02	4
140	Orange Organic Long-persistent Luminescence from an Electron Donor/Acceptor Binary System. <i>Chemistry Letters</i> , 2020 , 49, 203-206	1.7	4
139	Blue Oleds: High-Efficiency Blue Organic Light-Emitting Diodes Based on Thermally Activated Delayed Fluorescence from Phenoxaphosphine and Phenoxathiin Derivatives (Adv. Mater. 23/2016). <i>Advanced Materials</i> , 2016 , 28, 4625	24	4
138	Long-Persistent Luminescence: Wide-Range Tuning and Enhancement of Organic Long-Persistent Luminescence Using Emitter Dopants (Adv. Mater. 38/2018). <i>Advanced Materials</i> , 2018 , 30, 1870286	24	4
137	Deep Blue Fluorescent Material with an Extremely High Ratio of Horizontal Orientation to Enhance Light Outcoupling Efficiency (44%) and External Quantum Efficiency in Doped and Non-Doped Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 34605-34615	9.5	4
136	Organic photostimulated luminescence associated with persistent spin-correlated radical pairs. <i>Communications Materials</i> , 2021 , 2,	6	4
135	Discussion on hole traps of amorphous films of N,N?-di(1-naphthyl)-N,N?-diphenyl-(1,1?-biphenyl)-4,4?-diamine (BNPD) deposited at different substrate temperatures. <i>Applied Physics Letters</i> , 2019 , 114, 173301	3.4	3
134	Fluorescence lifetime elongation of thermally activated delayed fluorescence 4CzIPN molecules with encapsulation into zeolitic imidazole frameworks ZIF-11. <i>Optical Materials Express</i> , 2019 , 9, 1150	2.6	3
133	Nanoscale Electronic Properties of Triplet-State-Engineered Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 14811-14817	3.8	3

132	High-triplet-energy Bipolar Host Materials Based on Phosphine Oxide Derivatives for Efficient Sky-blue Thermally Activated Delayed Fluorescence Organic Light-emitting Diodes with Reduced Roll-off. <i>Chemistry Letters</i> , 2019 , 48, 1225-1228	1.7	3
131	Multi-color microfluidic organic light emitting device using electroluminescence and electrochemiluminescence 2013 ,		3
130	In-Plane Anisotropic Molecular Orientation of Pentafluorene and Its Application to Linearly Polarized Electroluminescence. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 27054-27061	9.5	3
129	Origin of external quantum efficiency degradation in organic light-emitting diodes with a DC magnetron sputtered cathode. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014 , 32, 060603	1.3	3
128	Organic Electrodes Consisting of Dianthratetrathiafulvalene and Fullerene and Their Application in Organic Field Effect Transistors. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 050202	1.4	3
127	Two-dimensional orientation control of organic semiconducting amorphous films by mechanical brushing. <i>Applied Physics Letters</i> , 2011 , 99, 053303	3.4	3
126	Novel Electron-Transporting Carbazolylphenylquinolines for Phosphorescent Organic Light-Emitting Diodes. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 9228-9230	1.4	3
125	Formation of a MgAu alloy Cathode by Photolithography and the Application for Organic Light-Emitting Diodes and Organic Field-effect Transistors. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2004 , 124, 1219-1223	0.1	3
124	Achieving a Carbon Neutral Future through Advanced Functional Materials and Technologies. <i>Bulletin of the Chemical Society of Japan</i> , 2022 , 95, 73-103	5.1	3
123	Low-Threshold Exciton-Polariton Condensation via Fast Polariton Relaxation in Organic Microcavities. <i>Advanced Optical Materials</i> , 2102034	8.1	3
122	Device Stability: The Relation of Phase-Transition Effects and Thermal Stability of Planar Perovskite Solar Cells (Adv. Sci. 1/2019). <i>Advanced Science</i> , 2019 , 6, 1970004	13.6	3
121	Electron-Affinity Substituent in 2,6-Dicarbonitrile Diphenyl-1 β -Phosphinine Towards High-Quality Organic Lasing and Electroluminescence under High Current Injection. <i>Advanced Functional Materials</i> , 2021 , 31, 2104529	15.6	3
120	Improved Performance of Perovskite Solar Cells by Suppressing the Energy-Level Shift of the PEDOT:PSS Hole Transport Layer. <i>ACS Applied Energy Materials</i> , 2021 , 4, 14590-14598	6.1	3
119	Tetrathienoanthracene-based Extended Narrow-band-gap Molecules: Synthesis, Physicochemical, and Photovoltaic Properties. <i>Chemistry Letters</i> , 2017 , 46, 29-31	1.7	2
118	3-3: Influence of Vacuum Chamber Impurities on OLED Degradation. <i>Digest of Technical Papers SID International Symposium</i> , 2017 , 48, 9-12	0.5	2
117	Diindenoperylene (DIP) concentration dependent photovoltaic performance and dielectric properties for mixed heterojunctions. <i>Synthetic Metals</i> , 2017 , 233, 35-40	3.6	2
116	Film transfer of structured organo-lead-halide perovskite for low-cost lasing applications. <i>Applied Physics Letters</i> , 2019 , 115, 141106	3.4	2
115	Blue OLEDs: Controlling Synergistic Oxidation Processes for Efficient and Stable Blue Thermally Activated Delayed Fluorescence Devices (Adv. Mater. 35/2016). <i>Advanced Materials</i> , 2016 , 28, 7807-7807 ²⁴		2

114	24-1: Device Stability Enhancement In TADF OLEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2016 , 47, 290-293	0.5	2
113	Near infrared photo-detector using self-assembled formation of organic crystalline nanopillar arrays 2014 ,		2
112	Influence of the atmosphere on organicorganic interfacial layers and deterioration in organic light-emitting diodes. <i>Journal of the Society for Information Display</i> , 2015 , 23, 129-137	2.1	2
111	Formation of nanostructured donor/acceptor interfaces and their application to organic photovoltaic cells. <i>Thin Solid Films</i> , 2012 , 522, 357-360	2.2	2
110	Electronic Structure of Molecular Solids: Bridge to the Electrical Conduction 2013 , 65-89		2
109	Variable multi-color microfluidic organic light emitting device based on mixing of electrochemiluminescence solutions 2013 ,		2
108	Efficient Persistent Room Temperature Phosphorescence in Organic Materials. <i>Kobunshi Ronbunshu</i> , 2013 , 70, 623-636	0	2
107	Formation of Organic Nanodots with a Minimum Diameter of 40 nm Using Conventional Vacuum Vapor Deposition. <i>Applied Physics Express</i> , 2010 , 3, 055201	2.4	2
106	Features of Conductivity and Electroluminescence of New Poly (9,9-Dioctylfluorenyl-2,7-Diyl) End Capped With Polyhedral Oligomeric Silsesquioxanes. <i>Molecular Crystals and Liquid Crystals</i> , 2007 , 467, 303-309	0.5	2
105	Preparation of Micropatterned Organic Light Emitting Diodes by Self-Organization. <i>Molecular Crystals and Liquid Crystals</i> , 2006 , 444, 87-94	0.5	2
104	Spin-relaxation Process of Excited Triplet States of Ir(ppy) ₃ . <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2006 , 19, 181-186	0.7	2
103	Special Section Guest Editorial: Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes. <i>Journal of Photonics for Energy</i> , 2018 , 8, 1	1.2	2
102	Organic Electrodes Consisting of Dianthratetrathiafulvalene and Fullerene and Their Application in Organic Field Effect Transistors. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 050202	1.4	2
101	Ambipolar Tetraphenylpyrene (TPPy) Single-Crystal Field-Effect Transistor with Symmetric and Asymmetric Electrodes. <i>Advances in Materials Research</i> , 2008 , 103-110		2
100	Horizontal Molecular Orientation in Vacuum-Deposited Organic Amorphous Films. <i>Green Energy and Technology</i> , 2010 , 137-151	0.6	2
99	Electroluminescence in Vacuum-Deposited Organic Thin Films. <i>Springer Proceedings in Physics</i> , 1989 , 358-361	0.2	2
98	Synthesis and photochromic behaviour of a series of benzopyrans bearing an N-phenyl-carbazole moiety: photochromism control by the steric effect. <i>Photochemical and Photobiological Sciences</i> , 2020 , 19, 1344-1355	4.2	2
97	Precise Exciton Management of Quaternary Emission Layers for Highly Stable Organic Light-Emitting Diodes Based on Thermally Activated Delayed Fluorescence. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 50668-50674	9.5	2

96	Visual Understanding of Vibronic Coupling and Quantitative Rate Expression for Singlet Fission in Molecular Aggregates. <i>Bulletin of the Chemical Society of Japan</i> , 2020 , 93, 1305-1313	5.1	2
95	Direct Observation of Photoexcited Electron Dynamics in Organic Solids Exhibiting Thermally Activated Delayed Fluorescence via Time-Resolved Photoelectron Emission Microscopy. <i>Advanced Optical Materials</i> , 2021 , 9, 2100619	8.1	2
94	Active Control of Spontaneous Orientation Polarization of Tris(8-hydroxyquinolino)aluminum (Alq3) Films and Its Effect on Performance of Organic Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100486	6.4	2
93	An Element-Substituted Cyclobutadiene Exhibiting High-Energy Blue Phosphorescence. <i>Angewandte Chemie</i> , 2021 , 133, 21988-21994	3.6	2
92	Role of intermediate state in the excited state dynamics of highly efficient TADF molecules 2016 ,		2
91	Correlated Triplet Pair Formation Activated by Geometry Relaxation in Directly Linked Tetracene Dimer (5,5'-Bitetracene). <i>ACS Omega</i> , 2021 , 6, 2638-2643	3.9	2
90	Organic Long-Persistent Luminescence: Organic Long-Persistent Luminescence from a Flexible and Transparent Doped Polymer (Adv. Mater. 45/2018). <i>Advanced Materials</i> , 2018 , 30, 1870341	24	2
89	2,6-Dicarbonitrile Diphenyl-1 β -Phosphinine (DCNP) β Robust Conjugated Building Block for Multi-Functional Dyes Exhibiting Tunable Amplified Spontaneous Emission. <i>Advanced Optical Materials</i> , 2021 , 9, 2101122	8.1	2
88	Amplified spontaneous emission from oligo(p-phenylenevinylene) derivatives. <i>Materials Advances</i> , 2021 , 2, 3906-3914	3.3	2
87	Organic Long-Persistent Luminescence: Many Exciplex Systems Exhibit Organic Long-Persistent Luminescence (Adv. Funct. Mater. 22/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070138	15.6	2
86	Thermally Activated Delayed Fluorescence Green OLED with 4500 hours Lifetime and 20% External Quantum Efficiency by Optimizing the Emission Zone Using A Single-Emission Spectrum Technique.. <i>Advanced Materials</i> , 2022 , e2201409	24	2
85	76-3: Induction Heating Evaporator for the Fabrication of OLEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 1087-1090	0.5	1
84	Organic Light Emitting Diodes with Liquid Emitters 2019 , 127-149		1
83	Interplay Among Thermoelectric Properties, Atmospheric Stability, and Electronic Structures in Solution-Deposited Thin Films of P(NaX[NiETT]). <i>Advanced Electronic Materials</i> , 2020 , 6, 1901172	6.4	1
82	A spirofluorene-end-capped bis-stilbene derivative with a low amplified spontaneous emission threshold and balanced hole and electron mobilities. <i>Optical Materials</i> , 2020 , 100, 109636	3.3	1
81	Field-Effect Transistors: High Performance p- and n-Type Light-Emitting Field-Effect Transistors Employing Thermally Activated Delayed Fluorescence (Adv. Funct. Mater. 28/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870193	15.6	1
80	Molecular Orientation: Simultaneous Edge-on to Face-on Reorientation and 1D Alignment of Small π -Conjugated Molecules Using Room-Temperature Mechanical Rubbing (Adv. Funct. Mater. 19/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870127	15.6	1
79	Microfluidic electrochemiluminescence (ECL) integrated flow cell for portable fluorescence detection 2014 ,		1

78	Amplified Spontaneous Emission: Amplified Spontaneous Emission and Electroluminescence from Thiophene/Phenylene Co-Oligomer-Doped p-bis(p-Styrylstyryl)Benzene Crystals (Advanced Optical Materials 6/2013). <i>Advanced Optical Materials</i> , 2013 , 1, 469-469	8.1	1
77	Ambipolar Charge-Carrier Transport in Molecular Field-Effect Transistors 2013 , 239-265		1
76	[Paper] Laser-Induced Micro-Patterning of Organic Semiconductor Layers for Use in Organic Light-Emitting Diode Displays. <i>ITE Transactions on Media Technology and Applications</i> , 2015 , 3, 143-148	0.7	1
75	High-efficiency organic light-emitting diodes with blue fluorescent emitter 2014 ,		1
74	P-164L: Late-News Poster: The Study of Film Formation Process by Electrospray Method to Manufacture High Productivity Organic Light-Emitting Diode Devices. <i>Digest of Technical Papers SID International Symposium</i> , 2014 , 45, 1593-1596	0.5	1
73	100 \AA -Order Patterning of Organic Semiconductor Layers Using a Thermally Converted Precursor Technique and its Application to Organic Light Emitting Diodes. <i>Advanced Optical Materials</i> , 2014 , 2, 110-114	8.1	1
72	Electronic Structure of Interfaces with Conjugated Organic Materials 2013 , 35-63		1
71	Effects of Gaussian Disorder on Charge-Carrier Transport and Recombination in Organic Semiconductors 2013 , 155-199		1
70	Charge Transport Physics of High-Mobility Molecular Semiconductors 2013 , 201-238		1
69	Doping of Organic Semiconductors 2013 , 425-496		1
68	Device Efficiency of Organic Light-Emitting Diodes 2013 , 497-539		1
67	Light-Emitting Organic Crystal Field-Effect Transistors for Future Organic Injection Lasers 2013 , 603-621		1
66	Photoluminescence Characteristics of Organic Host Materials with Wide Energy Gaps for Organic Electrophosphorescent Devices. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 050205	1.4	1
65	41.1: Invited Paper: Molecular Design of Organic Semiconductors Aiming for High Performance OLED, OFET and Organic Laser Diode. <i>Digest of Technical Papers SID International Symposium</i> , 2008 , 39, 604	0.5	1
64	Injection of current densities over kA/cm^2 in organic thin films and investigation of charge-carrier transport mechanisms in current density region between nA/cm^2 and kA/cm^2 2006 ,		1
63	High-Efficiency Carrier Injection Characteristics of Dioxanthene Derivatives in Organic Light-Emitting Diodes. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 410-411	1.4	1
62	Performance Analysis of a Perovskite-Based Thing-to-Thing Optical Wireless Power Transfer System. <i>IEEE Photonics Journal</i> , 2022 , 14, 1-8	1.8	1
61	Numerical Study of Triplet Dynamics in Organic Semiconductors Aimed for the Active Utilization of Triplets by TADF under Continuous-Wave Lasing.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 13, 1323-1329	6.4	1

60	High-performance solution-processed red hyperfluorescent OLEDs based on cibalackrot. <i>Journal of Materials Chemistry C</i> ,	7.1	1
59	Synthesis and Characterization of Hexakis(4-pyridylethynyl)benzene and Hexakis(5-pyrimidylethynyl)benzene. <i>Heterocycles</i> , 2004 , 63, 1537	0.8	1
58	Improved Device Lifetime of Organic Light Emitting Diodes with an Electrochemically Stable EConjugated Liquid Host in the Liquid Emitting Layer. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 041604	1.4	1
57	55-4: Novel Methodology for Reproducibility of OLED Lifetimes and Identification of Killer Impurities. <i>Digest of Technical Papers SID International Symposium</i> , 2020 , 51, 822-825	0.5	1
56	P-116: TADF OLED Emission Zone and Stability Analysis with Water Exposure to Different Layers During Deposition. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 1477-1481	0.5	1
55	Flexible organic light emitting diode ribbons using three liquid organic semiconductors 2016 ,		1
54	Kinetics of Excimer Electrogenerated Chemiluminescence of Pyrene and 1-Pyrenebutyricacid 2-Ethylhexylester in Acetonitrile and an Ionic Liquid, Triethylpentylphosphonium Bis(trifluoromethanesulfonyl)imide. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 10825-10836	3.4	1
53	Energy transfer in (PEA) ₂ FAn _n PbnBr _{3n+1} quasi-2D perovskites. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 4782-4791	7.1	1
52	Significant role of spin-triplet state for exciton dissociation in organic solids.. <i>Science Advances</i> , 2022 , 8, eabj9188	14.3	1
51	P-230: Late-News-Poster: Evaluations of Lithium-Fluoride Behavior in OLEDs by Means of Cyclic-Displacement Current-Measurement Method. <i>Digest of Technical Papers SID International Symposium</i> , 2020 , 51, 2107-2110	0.5	0
50	Material Design of Organic Semiconductors for Light Emitting Organic Field-effect Transistors and Their Device Characteristics. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , 2008 , 66, 493-503	0.2	0
49	Photoactive Organic/Inorganic Hybrid Materials with Nanosegregated Donor-Acceptor Arrays. <i>Angewandte Chemie</i> , 2021 , 133, 8500-8505	3.6	0
48	Synthesis and Characterization of 5,5'-Bitetracene. <i>Chemistry Letters</i> , 2021 , 50, 800-803	1.7	0
47	Tetrabenzo[a,c]phenazine Backbone for Highly Efficient Orange-Red Thermally Activated Delayed Fluorescence with Completely Horizontal Molecular Orientation. <i>Angewandte Chemie</i> , 2021 , 133, 19513-19522 ⁰	3.6	0
46	Fabrication of bottom-emitting organic light-emitting diode panels interconnected with encapsulation substrate by AuAu flip-chip bonding and capillary-driven filling process. <i>Microelectronic Engineering</i> , 2016 , 161, 94-97	2.5	0
45	Advantages of naphthalene as a building block for organic solid state laser dyes: smaller energy gaps and enhanced stability. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 4112-4118	7.1	0
44	Developing Efficient Dinuclear Pt(II) Complexes Based on the Triphenylamine Core for High-Efficiency Solution-Processed OLEDs. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 36020-36032 ⁰	9.5	0
43	Low Light Amplification Threshold and Reduced Efficiency Roll-Off in Thick Emissive Layer OLEDs from a Diketopyrrolopyrrole Derivative.. <i>Macromolecular Rapid Communications</i> , 2022 , e2200115	4.8	0

42	Cibalackrot Dendrimers for Hyperfluorescent Organic Light-Emitting Diodes.. <i>Macromolecular Rapid Communications</i> , 2022 , e2200118	4.8	o
41	Highly Efficient Deep-Blue Organic Light-Emitting Diodes Based on Rational Molecular Design and Device Engineering. <i>Advanced Functional Materials</i> , 2204352	15.6	o
40	Titelbild: Red/Near-Infrared Thermally Activated Delayed Fluorescence OLEDs with Near 100 % Internal Quantum Efficiency (Angew. Chem. 41/2019). <i>Angewandte Chemie</i> , 2019 , 131, 14529-14529	3.6	
39	33-4: Invited Paper: A Chemical Structure Approach Enhancing Light Outcoupling of Dopant OLEDs and Internal Quantum Efficiency of Non-Dopant OLEDs Having Bluish TADF Emitters. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 470-473	0.5	
38	Organic Light-Emitting Diode: Effect of Carrier Balance on Device Degradation of Organic Light-Emitting Diodes Based on Thermally Activated Delayed Fluorescence Emitters (Adv. Electron. Mater. 5/2019). <i>Advanced Electronic Materials</i> , 2019 , 5, 1970027	6.4	
37	Organic Semiconductor Lasers: Lasing Operation under Long-Pulse Excitation in Solution-Processed Organic Gain Medium: Toward CW Lasing in Organic Semiconductors (Advanced Optical Materials 21/2020). <i>Advanced Optical Materials</i> , 2020 , 8, 2070083	8.1	
36	High Performance Organic Light-emitting Diodes Based on Thermally-activated Delayed Fluorescence Materials. <i>Journal of the Vacuum Society of Japan</i> , 2015 , 58, 73-78		
35	Large-Area Deposition Technology of High Purity Organic Thin Film by Gas Flow Deposition. <i>Journal of the Vacuum Society of Japan</i> , 2015 , 58, 79-85		
34	P-152L: Late-News Poster: Self-Refreshable Lighting Device Using Liquid OLED Material. <i>Digest of Technical Papers SID International Symposium</i> , 2012 , 43, 1542-1543	0.5	
33	Organic Molecular Beam Deposition 2013 , 1-33		
32	Interfacial Doping for Efficient Charge Injection in Organic Semiconductors 2013 , 91-118		
31	Organic Magnetoresistance and Spin Diffusion in Organic Semiconductor Thin-Film Devices 2013 , 267-293		
30	Excitons at Polymer Interfaces 2013 , 295-331		
29	Electronic Processes at Organic Semiconductor Heterojunctions: The Mechanism of Exciton Dissociation in Semicrystalline Solid-State Microstructures 2013 , 333-347		
28	Recent Progress in the Understanding of Exciton Dynamics within Phosphorescent OLEDs 2013 , 349-369		
27	Light Outcoupling in Organic Light-Emitting Devices 2013 , 541-574		
26	Photogeneration and Recombination in Polymer Solar Cells 2013 , 575-602		
25	Organic Electronics: Bifunctional Star-Burst Amorphous Molecular Materials for OLEDs: Achieving Highly Efficient Solid-State Luminescence and Carrier Transport Induced by Spontaneous Molecular Orientation (Adv. Mater. 19/2013). <i>Advanced Materials</i> , 2013 , 25, 2634-2634	24	

24	Low-Threshold Blue Emission from First-Order Organic DFB Laser Using 2,7-bis[4-(N-carbazole)phenylvinyl]-9,9'-Spirobifluorene as Active Gain Medium. <i>Molecular Crystals and Liquid Crystals</i> , 2009 , 504, 1-8	0.5
23	Photoluminescence Characteristics of Dendrimers Containing (tris (8-hydroxyquinoline) aluminum) as a Core Unit. <i>Kobunshi Ronbunshu</i> , 2006 , 63, 675-680	0
22	Organic Blue Electrophorescence Using a Cyclic Siloxane Compound as a Host Material. <i>Kobunshi Ronbunshu</i> , 2006 , 63, 686-690	0
21	White Electrophosphorescent Devices having Multi-organic Phosphors Doped Layers. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2004 , 124, 1053-1058	0.2
20	Phosphorescence Quantum Efficiency and Intermolecular Interaction of Iridium(III) Complexes in Co-Deposited Films with Organic Semiconducting Hosts. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 846, DD4.5.1	
19	Specific Conductivity Dependence on Diameter of Submicro-Sized Polythiophene Fibrils. <i>Molecular Crystals and Liquid Crystals</i> , 1998 , 322, 85-90	
18	Fundamentals of Organic Electroluminescent Devices. <i>Journal of the Institute of Electrical Engineers of Japan</i> , 2005 , 125, 649-652	0
17	Bipolar Characteristics of an Organic Light-Emitting Field Effect Transistor Using a TPTPT and NTCDA Co-Deposited Layer. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2006 , 126, 1107-1111	0.1
16	Lowering the Driving Voltage of Organic Light Emitting Diodes by Chemical Doping. <i>Hyomen Kagaku</i> , 2007 , 28, 236-241	
15	Material and device structure design aiming for realization of organic semiconductor laser. <i>The Review of Laser Engineering</i> , 2007 , 35, 27-28	0
14	Clarification of Charge Separation and Transport Behavior at Two-dimensional Charge Sheet of Organic Donor/Acceptor Heterointerfaces. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2010 , 130, 155-160	0.2
13	MNM-4A-5 Thermoelectric thin film deposition on a porous alumina. <i>The Proceedings of the Symposium on Micro-Nano Science and Technology</i> , 2010 , 2010.2, 179-180	0
12	58-4: Efficient Cadmium-Free Quantum Dot Light-Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2020 , 51, 870-873	0.5
11	Partial Modification of Electron-withdrawing Groups in Thermally-activated Delayed Fluorescence Materials Aimed to Improve Efficiency and Stability. <i>Chemistry Letters</i> , 2020 , 49, 1189-1193	1.7
10	Organic Laser Dyes: An Organic Laser Dye having a Small Singlet-Triplet Energy Gap Makes the Selection of a Host Material Easier (Adv. Funct. Mater. 30/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070204	15.6
9	The effect of current density/voltage measurement conditions on the operational stability of hybrid perovskite solar cells. <i>Applied Physics Letters</i> , 2020 , 117, 103503	3.4
8	From 50 years of OLED Development to the Future. <i>Journal of the Institute of Electrical Engineers of Japan</i> , 2021 , 141, 266-268	0
7	19-1: Invited Paper: Stable Pure-Blue Hyperfluorescence OLEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 224-227	0.5

- 6 Inntitelbild: An Element-Substituted Cyclobutadiene Exhibiting High-Energy Blue Phosphorescence (Angew. Chem. 40/2021). *Angewandte Chemie*, **2021**, 133, 21766-21766 3.6
- 5 Tunable OLEDs: Color Tuning of Avobenzene Boron Difluoride as an Emitter to Achieve Full-Color Emission (Adv. Funct. Mater. 37/2016). *Advanced Functional Materials*, **2016**, 26, 6847-6847 15.6
- 4 Organic LEDs: Ultrahigh Power Efficiency Thermally Activated Delayed Fluorescent OLEDs by the Strategic Use of Electron-Transport Materials (Advanced Optical Materials 17/2018). *Advanced Optical Materials*, **2018**, 6, 1870067 8.1
- 3 Advanced Molecular Design for Organic Light Emitting Diode Emitters Based on Horizontal Molecular Orientation and Thermally Activated Delayed Fluorescence **2021**, 295-305
- 2 Recent Progress on Organic Semiconductor Laser Molecules. *Vacuum and Surface Science*, **2021**, 64, 4-9 ○
- 1 Efficient Perovskite Light-Emitting Diodes with a Siloxane-Blended Organic Hole Transport Layer. *Advanced Photonics Research*, 2200003 1.9