

Chihaya Adachi

List of Publications by Year in descending order

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737
papers

73,125
citations

867

120
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850

251
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787
all docs

787
docs citations

787
times ranked

27203
citing authors

#	ARTICLE	IF	CITATIONS
1	Recycling of Triplets into Singlets for High-Performance Organic Lasers. <i>Advanced Optical Materials</i> , 2022, 10, 2101302.	3.6	16
2	Synthesis, Aromaticity, and Application of <i>peri</i> -Pentacenopentacene: Localized Representation of Benzenoid Aromatic Compounds. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	26
3	Low-Threshold Exciton-Polariton Condensation via Fast Polariton Relaxation in Organic Microcavities. <i>Advanced Optical Materials</i> , 2022, 10, 2102034.	3.6	13
4	Efficiency of Thermally Activated Delayed Fluorescence Sensitized Triplet Upconversion Doubled in Three-Component System. <i>Advanced Materials</i> , 2022, 34, e2103976.	11.1	13
5	Organic long-persistent luminescence stimulated by visible light in p-type systems based on organic photoredox catalyst dopants. <i>Nature Materials</i> , 2022, 21, 338-344.	13.3	91
6	Managing Intersegmental Charge-Transfer and Multiple Resonance Alignments of D _{3h} -Typed TADF Emitters for Red OLEDs with Improved Efficiency and Color Purity. <i>Advanced Optical Materials</i> , 2022, 10, 2101789.	3.6	41
7	Spiroconjugated Tetraaminospirenes as Donors in Color-Tunable Charge-Transfer Emitters with Donor-Acceptor Structure. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	2
8	High-performance solution-processed red hyperfluorescent OLEDs based on cibalackrot. <i>Journal of Materials Chemistry C</i> , 2022, 10, 4767-4774.	2.7	19
9	Probing polaron-induced exciton quenching in TADF based organic light-emitting diodes. <i>Nature Communications</i> , 2022, 13, 254.	5.8	42
10	Performance Analysis of a Perovskite-Based Thing-to-Thing Optical Wireless Power Transfer System. <i>IEEE Photonics Journal</i> , 2022, 14, 1-8.	1.0	9
11	Achieving a Carbon Neutral Future through Advanced Functional Materials and Technologies. <i>Bulletin of the Chemical Society of Japan</i> , 2022, 95, 73-103.	2.0	39
12	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.	2.1	6
13	Steric Modulation of Spiro Structure for Highly Efficient Multiple Resonance Emitters. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	9
14	Low Light Amplification Threshold and Reduced Efficiency Roll-Off in Thick Emissive Layer OLEDs from a Diketopyrrolopyrrole Derivative. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2200115.	2.0	4
15	Steric Modulation of Spiro Structure for Highly Efficient Multiple Resonance Emitters. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	83
16	Cibalackrot Dendrimers for Hyperfluorescent Organic Light-Emitting Diodes. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2200118.	2.0	4
17	Highly efficient pixelated near-infrared OLED light source. , 2022, , .		0
18	Significant role of spin-triplet state for exciton dissociation in organic solids. <i>Science Advances</i> , 2022, 8, eabj9188.	4.7	13

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19	Thermally activated delayed fluorescence poly(dendrimer)s â€“ detrapping excitons for reverse intersystem crossing. <i>Journal of Materials Chemistry C</i> , 2022, 10, 8109-8124.	2.7	1
20	Efficient Perovskite Light-Emitting Diodes with a Siloxane-Blended Organic Hole Transport Layer. <i>Advanced Photonics Research</i> , 2022, 3, .	1.7	1
21	A Thermally Activated Delayed Fluorescence Green OLED with 4500 h Lifetime and 20% External Quantum Efficiency by Optimizing the Emission Zone using a Single-Emission Spectrum Technique. <i>Advanced Materials</i> , 2022, 34, e2201409.	11.1	18
22	Spontaneous formation of metastable orientation with well-organized permanent dipole moment in organic glassy films. <i>Nature Materials</i> , 2022, 21, 819-825.	13.3	27
23	Highly Efficient Deep-Blue Organic Light-Emitting Diodes Based on Rational Molecular Design and Device Engineering. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	27
24	Impact of excitonic and photonic loss mechanisms on the threshold and slope efficiency of organic semiconductor lasers. <i>Japanese Journal of Applied Physics</i> , 2022, 61, 074003.	0.8	4
25	Carbazole-2-carbonitrile as an acceptor in deep-blue thermally activated delayed fluorescence emitters for narrowing charge-transfer emissions. <i>Chemical Science</i> , 2022, 13, 7821-7828.	3.7	8
26	Tailor-Made Multi-Resonance Terminal Emitters toward Narrowband, High-Efficiency, and Stable Hyperfluorescence Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	21
27	Balanced electron and hole injection and transport in OLEDs by using transparent electrodes. <i>Japanese Journal of Applied Physics</i> , 2022, 61, 088002.	0.8	1
28	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.	6.6	47
29	Synthesis, crystal structure and charge transport characteristics of stable peri-tetracene analogues. <i>Chemical Science</i> , 2021, 12, 552-558.	3.7	14
30	Correlated Triplet Pair Formation Activated by Geometry Relaxation in Directly Linked Tetracene Dimer (5,5'-Bitetracene). <i>ACS Omega</i> , 2021, 6, 2638-2643.	1.6	3
31	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.	2.7	5
32	Realizing Near-Infrared Laser Dyes through a Shift in Excited-State Absorption. <i>Advanced Optical Materials</i> , 2021, 9, 2001947.	3.6	19
33	Thermally activated processes in an organic long-persistent luminescence system. <i>Nanoscale</i> , 2021, 13, 8412-8417.	2.8	11
34	An Electron-Accepting aza-BODIPY-Based Donor-Acceptor Donor Architecture for Bright NIR Emission. <i>Chemistry - A European Journal</i> , 2021, 27, 5259-5267.	1.7	33
35	Isotope Effect of Host Material on Device Stability of Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes. <i>Small Science</i> , 2021, 1, 2000057.	5.8	22
36	Intramolecular-Locked High Efficiency Ultrapure Violet-Blue (CIEy ≤ 0.046) Thermally Activated Delayed Fluorescence Emitters Exhibiting Amplified Spontaneous Emission. <i>Advanced Functional Materials</i> , 2021, 31, 2009488.	7.8	88

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37	Photoactive Organic/Inorganic Hybrid Materials with Nanosegregated Donor-Acceptor Arrays. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8419-8424.	7.2	13
38	Highly Efficient Near-Infrared Electrofluorescence from a Thermally Activated Delayed Fluorescence Molecule. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8477-8482.	7.2	130
39	Photoactive Organic/Inorganic Hybrid Materials with Nanosegregated Donor-Acceptor Arrays. <i>Angewandte Chemie</i> , 2021, 133, 8500-8505.	1.6	3
40	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.	2.6	55
41	Thermally Activated Delayed Fluorescence Properties of Trioxazatriangulene Derivatives Modified with Electron Donating Groups. <i>Advanced Optical Materials</i> , 2021, 9, 2002174.	3.6	35
42	Markedly Improved Performance of Optically Pumped Organic Lasers with Two-Dimensional Distributed-Feedback Gratings. <i>ACS Photonics</i> , 2021, 8, 1324-1334.	3.2	17
43	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.	1.2	17
44	Highly Efficient Near-Infrared Electrofluorescence from a Thermally Activated Delayed Fluorescence Molecule. <i>Angewandte Chemie</i> , 2021, 133, 8558-8563.	1.6	23
45	Heptacene: Synthesis and Its Hole-Transfer Property in Stable Thin Films. <i>Chemistry - A European Journal</i> , 2021, 27, 10677-10684.	1.7	12
46	Synthesis and Characterization of 5,5-Bitetracene. <i>Chemistry Letters</i> , 2021, 50, 800-803.	0.7	1
47	From 50 years of OLED Development to the Future. <i>Journal of the Institute of Electrical Engineers of Japan</i> , 2021, 141, 266-268.	0.0	0
48	Long-Persistent Luminescence from an Exciplex-Based Organic Light-Emitting Diode. <i>Advanced Materials</i> , 2021, 33, e2008844.	11.1	45
49	P16: 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.	0.1	1
50	Invited Paper: Stable Pure-Blue Hyperfluorescence OLEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2021, 52, 224-227.	0.1	1
51	Thermally-activated Delayed Fluorescence for Light-emitting Devices. <i>Chemistry Letters</i> , 2021, 50, 938-948.	0.7	103
52	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.	3.6	7
53	Unintentional passivation of 4-tertbutyl pyridine for improved efficiency and decreased operational stability of perovskite solar cells. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	10
54	Toward Thing-to-Thing Optical Wireless Power Transfer: Metal Halide Perovskite Transceiver as an Enabler. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	15

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55	Active Control of Spontaneous Orientation Polarization of Tris(8-hydroxyquinolino)aluminum (Alq ₃) Films and Its Effect on Performance of Organic Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , 2021, 7, 2100486.	2.6	18
56	Tetrabenzo[<i>a</i> , <i>c</i>]phenazine Backbone for Highly Efficient Orange-Red Thermally Activated Delayed Fluorescence with Completely Horizontal Molecular Orientation. <i>Angewandte Chemie</i> , 2021, 133, 19513-19522.	1.6	4
57	Tetrabenzo[<i>a</i> , <i>c</i>]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.	7.2	67
58	Innentitelbild: An Element-Substituted Cyclobutadiene Exhibiting High-Energy Blue Phosphorescence (Angew. Chem. 40/2021). <i>Angewandte Chemie</i> , 2021, 133, 21766-21766.	1.6	0
59	An Element-Substituted Cyclobutadiene Exhibiting High-Energy Blue Phosphorescence. <i>Angewandte Chemie</i> , 2021, 133, 21988-21994.	1.6	8
60	An Element-Substituted Cyclobutadiene Exhibiting High-Energy Blue Phosphorescence. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21817-21823.	7.2	15
61	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.	4.0	7
62	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.	4.0	13
63	Organic photostimulated luminescence associated with persistent spin-correlated radical pairs. <i>Communications Materials</i> , 2021, 2, .	2.9	6
64	Electron-Affinity Substituent in 2,6-Dicyanonitrile Diphenyl- ⁵ -Phosphinine Towards High-Quality Organic Lasing and Electroluminescence under High Current Injection. <i>Advanced Functional Materials</i> , 2021, 31, 2104529.	7.8	14
65	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.	2.1	9
66	Exact Solution of Kinetic Analysis for Thermally Activated Delayed Fluorescence Materials. <i>Journal of Physical Chemistry A</i> , 2021, 125, 8074-8089.	1.1	47
67	Enhanced Light-Matter Interaction and Polariton Relaxation by the Control of Molecular Orientation. <i>Advanced Optical Materials</i> , 2021, 9, 2101048.	3.6	16
68	Mini-Review on Efficiency and Stability of Perovskite Solar Cells with Spiro-OMeTAD Hole Transport Layer: Recent Progress and Perspectives. <i>Energy & Fuels</i> , 2021, 35, 18915-18927.	2.5	45
69	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</i> , 2021, 133, 26082-26087.	1.6	8
70	2,6-Dicyanonitrile Diphenyl- ⁵ -Phosphinine (DCNP)-A Robust Conjugated Building Block for Multi-Functional Dyes Exhibiting Tunable Amplified Spontaneous Emission. <i>Advanced Optical Materials</i> , 2021, 9, 2101122.	3.6	11
71	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.	7.2	35
72	Recent Progress on Organic Semiconductor Laser Molecules. <i>Vacuum and Surface Science</i> , 2021, 64, 4-9.	0.0	0

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73	Amplified spontaneous emission from oligo(<i>p</i> -phenylenevinylene) derivatives. <i>Materials Advances</i> , 2021, 2, 3906-3914.	2.6	7
74	Stable pure-blue hyperfluorescence organic light-emitting diodes with high-efficiency and narrow emission. <i>Nature Photonics</i> , 2021, 15, 203-207.	15.6	449
75	Energy transfer in (PEA) ₂ FA _{n-1} Pb _n Br _{3n+1} quasi-2D perovskites. <i>Journal of Materials Chemistry C</i> , 2021, 9, 4782-4791.	2.7	6
76	Hot exciplexes in U-shaped TADF molecules with emission from locally excited states. <i>Nature Communications</i> , 2021, 12, 6179.	5.8	25
77	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.	2.5	4
78	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.	2.0	6
79	Triplet management for efficient perovskite light-emitting diodes. <i>Nature Photonics</i> , 2020, 14, 70-75.	15.6	190
80	Intersystem Crossing Rate in Thermally Activated Delayed Fluorescence Emitters. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900616.	0.8	13
81	Influence of energy gap between charge-transfer and locally excited states on organic long persistence luminescence. <i>Nature Communications</i> , 2020, 11, 191.	5.8	115
82	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.	2.1	36
83	Design Strategy for Robust Organic Semiconductor Laser Dyes. , 2020, 2, 161-167.		47
84	Enhanced Energy Transfer in Doped Bifluorene Single Crystals: Prospects for Organic Lasers. <i>Advanced Optical Materials</i> , 2020, 8, 1901670.	3.6	14
85	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.	3.6	67
86	Orange Organic Long-persistent Luminescence from an Electron Donor/Acceptor Binary System. <i>Chemistry Letters</i> , 2020, 49, 203-206.	0.7	9
87	Organic Long-Persistent Luminescence from a Thermally Activated Delayed Fluorescence Compound. <i>Advanced Materials</i> , 2020, 32, e2003911.	11.1	86
88	584: Efficient Cadmium-Free Quantum Dot Light-Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2020, 51, 870-873.	0.1	0
89	High performance planar microcavity organic semiconductor lasers based on thermally evaporated top distributed Bragg reflector. <i>Applied Physics Letters</i> , 2020, 117, 153301.	1.5	13
90	Suppression of external quantum efficiency rolloff in organic light emitting diodes by scavenging triplet excitons. <i>Nature Communications</i> , 2020, 11, 4926.	5.8	46

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91	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.	0.7	0
92	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.	4.0	18
93	Highly effective organic light-emitting diodes containing thermally activated delayed fluorescence emitters with horizontal molecular orientation. <i>RSC Advances</i> , 2020, 10, 42897-42902.	1.7	7
94	Solution-Processed Dendrimer-Based TADF Materials for Deep-Red OLEDs. <i>Macromolecules</i> , 2020, 53, 10375-10385.	2.2	25
95	Editorial: Recent Advances in Thermally Activated Delayed Fluorescence Materials. <i>Frontiers in Chemistry</i> , 2020, 8, 625910.	1.8	7
96	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.	1.2	15
97	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.	1.5	11
98	Solid cyclooctatetraene-based triplet quencher demonstrating excellent suppression of singlet-triplet annihilation in optical and electrical excitation. <i>Nature Communications</i> , 2020, 11, 5623.	5.8	31
99	Organic Laser Dyes: An Organic Laser Dye having a Small Singlet-Triplet Energy Gap Makes the Selection of a Host Material Easier (<i>Adv. Funct. Mater.</i> 30/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070204.	7.8	0
100	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.	1.6	4
101	Surface Segregation of a Star-Shaped Polyhedral Oligomeric Silsesquioxane in a Polymer Matrix. <i>Langmuir</i> , 2020, 36, 9960-9966.	1.6	7
102	Understanding the Degradation of Spiro-MeTAD-Based Perovskite Solar Cells at High Temperature. <i>Solar Rrl</i> , 2020, 4, 2000305.	3.1	53
103	Fast spin-flip enables efficient and stable organic electroluminescence from charge-transfer states. <i>Nature Photonics</i> , 2020, 14, 636-642.	15.6	331
104	Hydrogen bond-modulated molecular packing and its applications in high-performance non-doped organic electroluminescence. <i>Materials Horizons</i> , 2020, 7, 2734-2740.	6.4	51
105	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.		18
106	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.	0.1	1
107	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.	4.0	8
108	Role of Spontaneous Orientational Polarization in Organic Donor-Acceptor Blends for Exciton Binding. <i>Advanced Optical Materials</i> , 2020, 8, 2000896.	3.6	18

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109	Stable room-temperature continuous-wave lasing in quasi-2D perovskite films. <i>Nature</i> , 2020, 585, 53-57.	13.7	384
110	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.	3.7	25
111	Low Amplified Spontaneous Emission and Lasing Thresholds from Hybrids of Fluorenes and Vinylphenylcarbazole. <i>Advanced Optical Materials</i> , 2020, 8, 2000784.	3.6	14
112	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.	2.0	2
113	The effect of current density voltage measurement conditions on the operational stability of hybrid perovskite solar cells. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	1
114	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.	3.6	23
115	Organic Semiconductor Lasers: Lasing Operation under Long Pulse Excitation in Solution-Processed Organic Gain Medium: Toward CW Lasing in Organic Semiconductors (<i>Advanced Optical Materials</i>)	3.6	23
116	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.	0.1	1
117	Sub-Microsecond TADF Emission in D-A Emitters. <i>Chemistry Letters</i> , 2020, 49, 932-935.	0.7	8
118	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, .	0.6	6
119	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.	1.8	18
120	Understanding degradation of organic light-emitting diodes from magnetic field effects. <i>Communications Materials</i> , 2020, 1, .	2.9	28
121	Near-infrared absorbing pyrrolopyrrole aza-BODIPY-based donor-acceptor polymers with reasonable photoresponse. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8770-8776.	2.7	19
122	Exciton-Exciton Annihilation in Thermally Activated Delayed Fluorescence Emitter. <i>Advanced Functional Materials</i> , 2020, 30, 2000580.	7.8	45
123	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.	7.8	26
124	F8BT Oligomers for Organic Solid-State Lasers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 28383-28391.	4.0	20
125	Nanoscale Electronic Properties of Triplet-State-Engineered Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2020, 124, 14811-14817.	1.5	3
126	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.	4.0	68

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127	High EQE and High Brightness Solution-Processed TADF Light-Emitting Transistors and OLEDs. <i>Advanced Optical Materials</i> , 2020, 8, 2000554.	3.6	21
128	Detrimental Effect of Unreacted PbI_2 on the Long-Term Stability of Perovskite Solar Cells. <i>Advanced Materials</i> , 2020, 32, e1905035.	11.1	256
129	Molecular orientation of disk-shaped small molecules exhibiting thermally activated delayed fluorescence in host-guest films. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	32
130	Interplay Among Thermoelectric Properties, Atmospheric Stability, and Electronic Structures in Solution-Deposited Thin Films of $P(Na_x)$ [Niett]). <i>Advanced Electronic Materials</i> , 2020, 6, 1901172.	2.6	5
131	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.	1.7	8
132	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.	11.1	109
133	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.	7.8	41
134	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.	2.1	28
135	Enhancing Small-Molecule Organic Photodetector Performance for Reflectance-Mode Photoplethysmography Sensor Applications. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1280-1288.	2.0	19
136	Killer impurities in vacuum chamber that affect the lifetime of organic light-emitting diodes. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	8
137	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.	1.1	18
138	Many Exciplex Systems Exhibit Organic Long-Persistent Luminescence. <i>Advanced Functional Materials</i> , 2020, 30, 2000795.	7.8	64
139	Nanosecond-time-scale delayed fluorescence molecule for deep-blue OLEDs with small efficiency rolloff. <i>Nature Communications</i> , 2020, 11, 1765.	5.8	287
140	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.	7.8	2
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