

Chihaya Adachi

List of Publications by Year in Descending Order

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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	Probing polaron-induced exciton quenching in TADF based organic light-emitting diodes.. <i>Nature Communications</i> , 2022 , 13, 254	17.4	4
724	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
723	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
722	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
721	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
720	Cibalackrot Dendrimers for Hyperfluorescent Organic Light-Emitting Diodes.. <i>Macromolecular Rapid Communications</i> , 2022 , e2200118	4.8	0
719	Significant role of spin-triplet state for exciton dissociation in organic solids.. <i>Science Advances</i> , 2022 , 8, eabj9188	14.3	1
718	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
717	Synthesis, Aromaticity, and Application of peri-Pentacenopentacene: Localized Representation of Benzenoid Aromatic Compounds. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	4
716	Efficiency of Thermally Activated Delayed Fluorescence Sensitized Triplet Upconversion Doubled in Three-Component System. <i>Advanced Materials</i> , 2021 , e2103976	24	5
715	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
714	Hot exciplexes in U-shaped TADF molecules with emission from locally excited states. <i>Nature Communications</i> , 2021 , 12, 6179	17.4	7
713	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
712	Photoactive Organic/Inorganic Hybrid Materials with Nanosegregated Donor-Acceptor Arrays. <i>Angewandte Chemie</i> , 2021 , 133, 8500-8505	3.6	0
711	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
710	Thermally Activated Delayed Fluorescence Properties of Trioxoazatriangulene Derivatives Modified with Electron Donating Groups. <i>Advanced Optical Materials</i> , 2021 , 9, 2002174	8.1	12
709	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

708	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
707	Highly Efficient Near-Infrared Electrofluorescence from a Thermally Activated Delayed Fluorescence Molecule. <i>Angewandte Chemie</i> , 2021 , 133, 8558-8563	3.6	13
706	Heptacene: Synthesis and Its Hole-Transfer Property in Stable Thin Films. <i>Chemistry - A European Journal</i> , 2021 , 27, 10677-10684	4.8	5
705	Synthesis and Characterization of 5,5'-Bitetracene. <i>Chemistry Letters</i> , 2021 , 50, 800-803	1.7	0
704	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	
703	Long-Persistent Luminescence from an Exciplex-Based Organic Light-Emitting Diode. <i>Advanced Materials</i> , 2021 , 33, e2008844	24	18
702	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
701	19-1: Invited Paper: Stable Pure-Blue Hyperfluorescence OLEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 224-227	0.5	
700	Thermally-activated Delayed Fluorescence for Light-emitting Devices. <i>Chemistry Letters</i> , 2021 , 50, 938-948	4.8	29
699	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
698	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
697	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
696	Active Control of Spontaneous Orientation Polarization of Tris(8-hydroxyquinolato)aluminum (Alq3) Films and Its Effect on Performance of Organic Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100486	6.4	2
695	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 ^o	3.6	15
694	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
693	Innenteilbild: An Element-Substituted Cyclobutadiene Exhibiting High-Energy Blue Phosphorescence (Angew. Chem. 40/2021). <i>Angewandte Chemie</i> , 2021 , 133, 21766-21766	3.6	
692	An Element-Substituted Cyclobutadiene Exhibiting High-Energy Blue Phosphorescence. <i>Angewandte Chemie</i> , 2021 , 133, 21988-21994	3.6	2
691	An Element-Substituted Cyclobutadiene Exhibiting High-Energy Blue Phosphorescence. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 21817-21823	16.4	5

690	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
689	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
688	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
687	Realizing Near-Infrared Laser Dyes through a Shift in Excited-State Absorption. <i>Advanced Optical Materials</i> , 2021 , 9, 2001947	8.1	7
686	Thermally activated processes in an organic long-persistent luminescence system. <i>Nanoscale</i> , 2021 , 13, 8412-8417	7.7	6
685	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
684	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
683	Intramolecular-Locked High Efficiency Ultrapure Violet-Blue (CIE-y). <i>Advanced Functional Materials</i> , 2021 , 31, 2009488	15.6	34
682	Photoactive Organic/Inorganic Hybrid Materials with Nanosegregated Donor-Acceptor Arrays. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 8419-8424	16.4	5
681	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	9.5	0
680	Advanced Molecular Design for Organic Light Emitting Diode Emitters Based on Horizontal Molecular Orientation and Thermally Activated Delayed Fluorescence 2021 , 295-305		
679	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
678	Organic photostimulated luminescence associated with persistent spin-correlated radical pairs. <i>Communications Materials</i> , 2021 , 2,	6	4
677	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
676	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
675	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
674	Enhanced Light-Matter Interaction and Polaron Relaxation by the Control of Molecular Orientation. <i>Advanced Optical Materials</i> , 2021 , 9, 2101048	8.1	6
673	2,6-Dicarbonitrile Diphenyl-1 β -Phosphinine (DCNP) A Robust Conjugated Building Block for Multi-Functional Dyes Exhibiting Tunable Amplified Spontaneous Emission. <i>Advanced Optical Materials</i> , 2021 , 9, 2101122	8.1	2

672	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
671	Recent Progress on Organic Semiconductor Laser Molecules. <i>Vacuum and Surface Science</i> , 2021 , 64, 4-9		0
670	Amplified spontaneous emission from oligo(p-phenylenevinylene) derivatives. <i>Materials Advances</i> , 2021 , 2, 3906-3914	3.3	2
669	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
668	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
667	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
666	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	
665	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
664	Sub-Microsecond TADF Emission in D-D ⁺ -A Emitters. <i>Chemistry Letters</i> , 2020 , 49, 932-935	1.7	4
663	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
662	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
661	Understanding degradation of organic light-emitting diodes from magnetic field effects. <i>Communications Materials</i> , 2020 , 1,	6	14
660	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
659	Exciton-Exciton Annihilation in Thermally Activated Delayed Fluorescence Emitter. <i>Advanced Functional Materials</i> , 2020 , 30, 2000580	15.6	18
658	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
657	F8BT Oligomers for Organic Solid-State Lasers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 28383-28391	3.3	11
656	Nanoscale Electronic Properties of Triplet-State-Engineered Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 14811-14817	3.8	3
655	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

654	High EQE and High Brightness Solution-Processed TADF Light-Emitting Transistors and OLEDs. <i>Advanced Optical Materials</i> , 2020 , 8, 2000554	8.1	11
653	Detrimental Effect of Unreacted Pbl on the Long-Term Stability of Perovskite Solar Cells. <i>Advanced Materials</i> , 2020 , 32, e1905035	24	123
652	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
651	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
650	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
649	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
648	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
647	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
646	Enhancing Small-Molecule Organic Photodetector Performance for Reflectance-Mode Photoplethysmography Sensor Applications. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1280-1288	4	10
645	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
644	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
643	The Leap from Organic Light-Emitting Diodes to Organic Semiconductor Laser Diodes. <i>CCS Chemistry</i> , 2020 , 2, 1203-1216	7.2	18
642	Hysteresis-less and stable perovskite solar cells with a self-assembled monolayer. <i>Communications Materials</i> , 2020 , 1,	6	57
641	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
640	Triplet management for efficient perovskite light-emitting diodes. <i>Nature Photonics</i> , 2020 , 14, 70-75	33.9	117
639	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
638	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
637	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

636	Design Strategy for Robust Organic Semiconductor Laser Dyes 2020 , 2, 161-167		22
635	Enhanced Energy Transfer in Doped Bifluorene Single Crystals: Prospects for Organic Lasers. <i>Advanced Optical Materials</i> , 2020 , 8, 1901670	8.1	9
634	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
633	Orange Organic Long-persistent Luminescence from an Electron Donor/Acceptor Binary System. <i>Chemistry Letters</i> , 2020 , 49, 203-206	1.7	4
632	Organic Long-Persistent Luminescence from a Thermally Activated Delayed Fluorescence Compound. <i>Advanced Materials</i> , 2020 , 32, e2003911	24	40
631	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	
630	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
629	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
628	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	
627	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
626	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
625	Solution-Processed Dendrimer-Based TADF Materials for Deep-Red OLEDs. <i>Macromolecules</i> , 2020 , 53, 10375-10385	5.5	9
624	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
623	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
622	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
621	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	
620	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
619	Surface Segregation of a Star-Shaped Polyhedral Oligomeric Silsesquioxane in a Polymer Matrix. <i>Langmuir</i> , 2020 , 36, 9960-9966	4	5

618	Understanding the Degradation of Spiro-OMeTAD-Based Perovskite Solar Cells at High Temperature. <i>Solar Rrl</i> , 2020 , 4, 2000305	7.1	30
617	Fast spin-flip enables efficient and stable organic electroluminescence from charge-transfer states. <i>Nature Photonics</i> , 2020 , 14, 636-642	33.9	154
616	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
615	Color-Tunable Low-Threshold Amplified Spontaneous Emission from Yellow to Near-Infrared (NIR) Based on DonorSpacerAcceptorSpacerDonor Linear Dyes 2020 , 2, 1567-1574		9
614	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
613	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
612	Role of Spontaneous Orientational Polarization in Organic DonorAcceptor Blends for Exciton Binding. <i>Advanced Optical Materials</i> , 2020 , 8, 2000896	8.1	6
611	Stable room-temperature continuous-wave lasing in quasi-2D perovskite films. <i>Nature</i> , 2020 , 585, 53-57	50.4	170
610	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
609	Low Amplified Spontaneous Emission and Lasing Thresholds from Hybrids of Fluorenes and Vinylphenylcarbazole. <i>Advanced Optical Materials</i> , 2020 , 8, 2000784	8.1	8
608	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
607	The effect of current densityVoltage measurement conditions on the operational stability of hybrid perovskite solar cells. <i>Applied Physics Letters</i> , 2020 , 117, 103503	3.4	
606	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
605	Many Exciplex Systems Exhibit Organic Long-Persistent Luminescence. <i>Advanced Functional Materials</i> , 2020 , 30, 2000795	15.6	31
604	Nanosecond-time-scale delayed fluorescence molecule for deep-blue OLEDs with small efficiency rolloff. <i>Nature Communications</i> , 2020 , 11, 1765	17.4	159
603	Synthesis, crystal structure and charge transport characteristics of stable -tetracene analogues. <i>Chemical Science</i> , 2020 , 12, 552-558	9.4	9
602	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
601	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

600	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	
599	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
598	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
597	Film transfer of structured organo-lead-halide perovskite for low-cost lasing applications. <i>Applied Physics Letters</i> , 2019 , 115, 141106	3.4	2
596	Large metal halide perovskite crystals for field-effect transistor applications. <i>Applied Physics Letters</i> , 2019 , 115, 120601	3.4	22
595	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
594	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
593	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
592	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
591	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
590	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
589	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
588	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	
587	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
586	Intramolecular Noncovalent Interactions Facilitate Thermally Activated Delayed Fluorescence (TADF). <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3260-3268	6.4	41
585	Indication of current-injection lasing from an organic semiconductor. <i>Applied Physics Express</i> , 2019 , 12, 061010	2.4	123
584	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
583	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

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581	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	
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571	Photoluminescence Quenching Probes Spin Conversion and Exciton Dynamics in Thermally Activated Delayed Fluorescence Materials. <i>Advanced Materials</i> , 2019 , 31, e1804490	24	25
570	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
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567	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
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278	Electronic Structure of Interfaces with Conjugated Organic Materials 2013 , 35-63		1
277	Electronic Structure of Molecular Solids: Bridge to the Electrical Conduction 2013 , 65-89		2

276	Interfacial Doping for Efficient Charge Injection in Organic Semiconductors 2013 , 91-118		
275	Displacement Current Measurement for Exploring Charge Carrier Dynamics in Organic Semiconductor Devices 2013 , 119-154		4
274	Organic Magnetoresistance and Spin Diffusion in Organic Semiconductor Thin-Film Devices 2013 , 267-293		
273	Effects of Gaussian Disorder on Charge-Carrier Transport and Recombination in Organic Semiconductors 2013 , 155-199		1
272	Charge Transport Physics of High-Mobility Molecular Semiconductors 2013 , 201-238		1
271	Excitons at Polymer Interfaces 2013 , 295-331		
270	Electronic Processes at Organic Semiconductor Heterojunctions: The Mechanism of Exciton Dissociation in Semicrystalline Solid-State Microstructures 2013 , 333-347		
269	Recent Progress in the Understanding of Exciton Dynamics within Phosphorescent OLEDs 2013 , 349-369		
268	Organometallic Emitters for OLEDs: Triplet Harvesting, Singlet Harvesting, Case Structures, and Trends 2013 , 371-424		38
267	Doping of Organic Semiconductors 2013 , 425-496		1
266	Device Efficiency of Organic Light-Emitting Diodes 2013 , 497-539		1
265	Light Outcoupling in Organic Light-Emitting Devices 2013 , 541-574		
264	Photogeneration and Recombination in Polymer Solar Cells 2013 , 575-602		
263	Light-Emitting Organic Crystal Field-Effect Transistors for Future Organic Injection Lasers 2013 , 603-621		1
262	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
261	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
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