Sky-Blue Organic Light Emitting Diode with 37% External Quantum Efficiency Using Thermally Activated Delayed Fluorescence from Spiroacridine-Triazine Hybrid

DOI: 10.1002/adma.201601675
Advanced Materials, 2016, 28, 6976-83.

#	Paper	IF	Citations
828	The Electroluminescence Mechanism of Solution-Processed TADF Emitter 4CzIPN Doped OLEDs Investigated by Transient Measurements. **2016**, 21,		18
827	Role of intermediate state in the excited state dynamics of highly efficient TADF molecules. **2016**,		2
826	A series of pyrimidine based blue to green thermally activated delayed fluorescent emitters realizing a high EQE of 25%. **2016**,		
825	Dibenzothiophene Sulfone-Based Phosphine Oxide Electron Transporters with Unique Asymmetry for High-Efficiency Blue Thermally Activated Delayed Fluorescence Diodes. **2016**, 8, 27383-27393		29
824	Reduction of the singlet–triplet energy gap of a thermally activated delayed fluorescence emitter by molecular interaction between the host and the emitter. **2016**, 4, 10776-10780		15
823	Highly efficient organic light emitting diodes based on a D–A–D type dibenzothiophene derivative exhibiting thermally activated delayed fluorescence with small ΔE_{ST}. **2016**, 4, 10205-10208		31
822	Dual Encapsulation of Electron Transporting Materials To Simplify High-Efficiency Blue Thermally Activated Delayed Fluorescence Devices. **2016**, 28, 7145-7157		16
821	Triboluminescence and Metal Phosphor for Organic Light-Emitting Diodes: Functional Pt(II) Complexes with Both 2-Pyridylimidazol-2-ylidene and Bipyrazolate Chelates. **2016**, 8, 33888-33898		35
820	Achieving Optimal Self-Adaptivity for Dynamic Tuning of Organic Semiconductors through Resonance Engineering. **2016**, 138, 9655-62		53
819	Thermally activated delayed fluorescence blue dopants and hosts: from the design strategy to organic light-emitting diode applications. **2016**, 4, 11355-11381		131
818	Deep-blue thermally activated delayed fluorescence (TADF) emitters for light-emitting electrochemical cells (LEECs). **2017**, 5, 1699-1705		41
817	Color stable and highly efficient hybrid white organic light-emitting devices using heavily doped thermally activated delayed fluorescence and ultrathin non-doped phosphorescence layers. **2017**, 43, 112-120		9
816	Exciplex-Forming Co-Host-Based Red Phosphorescent Organic Light-Emitting Diodes with Long Operational Stability and High Efficiency. **2017**, 9, 3277-3281		96
815	Recent advances in organic thermally activated delayed fluorescence materials. **2017**, 46, 915-1016		1284
814	Structurally simple non-doped sky-blue OLEDs with high luminance and efficiencies at low driving voltages. **2017**, 5, 1973-1980		36
813	Inheriting the Characteristics of TADF Small Molecule by Side-Chain Engineering Strategy to Enable Bluish-Green Polymers with High PLQYs up to 74% and External Quantum Efficiency over 16% in Light-Emitting Diodes. *Advanced Materials*, **2017**, 29, 1604223	24	177
812	Synthesis and optical and electrochemical properties of julolidine-structured pyrido[3,4-b]indole dye. **2017**, 19, 3565-3574		11

811	Highly efficient, deep-red organic light-emitting devices using energy transfer from exciplexes. **2017**, 5, 527-530		58
810	OLEDs based on the emission of interface and bulk exciplexes formed by cyano-substituted carbazole derivative. **2017**, 139, 795-807		39
809	Efficient thermally activated delayed fluorescence of functional phenylpyridinato boron complexes and high performance organic light-emitting diodes. **2017**, 5, 1452-1462		55
808	Electrochemical Generation of Excited Intramolecular Charge-Transfer States. **2017**, 4, 1604-1638		10
807	Recent Progress in High-Efficiency Blue-Light-Emitting Materials for Organic Light-Emitting Diodes. **2017**, 27, 1603007		367
806	Combined Inter- and Intramolecular Charge-Transfer Processes for Highly Efficient Fluorescent Organic Light-Emitting Diodes with Reduced Triplet Exciton Quenching. *Advanced Materials*, **2017**, 29, 1606448	24	110
805	Molecular Design Strategy of Organic Thermally Activated Delayed Fluorescence Emitters. **2017**, 29, 1946-1963		557
804	Purely Organic Thermally Activated Delayed Fluorescence Materials for Organic Light-Emitting Diodes. *Advanced Materials*, **2017**, 29, 1605444	24	1056
803	Controlling the exciton lifetime of blue thermally activated delayed fluorescence emitters using a heteroatom-containing pyridoindole donor moiety. **2017**, 4, 619-624		57
802	Two novel bipolar compounds based-on 1, 2, 4-triazol derivatives for non-doped deep-blue and green phosphorescent OLED applications. **2017**, 143, 25-32		18
801	Over 10% EQE Near-Infrared Electroluminescence Based on a Thermally Activated Delayed Fluorescence Emitter. **2017**, 27, 1700986		175
800	Azasiline-based thermally activated delayed fluorescence emitters for blue organic light emitting diodes. **2017**, 5, 1027-1032		42
799	Thermally Activated Delayed Fluorescence Properties of Regioisomeric Xanthone-Based Twisted Intramolecular Charge-Transfer Luminophores. **2017**, 90, 231-236		14
798	Near-infrared thermally activated delayed fluorescent dendrimers for the efficient non-doped solution-processed organic light-emitting diodes. **2017**, 48, 389-396		34
797	45-2: Invited Paper: Highly Efficient Acridine-based TADF Emitters. **2017**, 48, 657-660		
796	Donor-Acceptor Molecules for Green Thermally Activated Delayed Fluorescence by Spatially Approaching Spiro Conformation. **2017**, 19, 3155-3158		40
795	A Red Fluorescent Emitter with a Simultaneous Hybrid Local and Charge Transfer Excited State and Aggregation-Induced Emission for High-Efficiency, Low Efficiency Roll-Off OLEDs. **2017**, 5, 1700145		39
794	Aromatic-Imide-Based Thermally Activated Delayed Fluorescence Materials for Highly Efficient Organic Light-Emitting Diodes. **2017**, 56, 8818-8822		87

793	Aromatic-Imide-Based Thermally Activated Delayed Fluorescence Materials for Highly Efficient Organic Light-Emitting Diodes. **2017**, 129, 8944-8948	15
792	Increasing the horizontal orientation of transition dipole moments in solution processed small molecular emitters. **2017**, 5, 6555-6562	18
791	White Organic LED with a Luminous Efficacy Exceeding 100 lm W□1 without Light Out-Coupling Enhancement Techniques. **2017**, 27, 1701314	134
790	Robust Luminescent Materials with Prominent Aggregation-Induced Emission and Thermally Activated Delayed Fluorescence for High-Performance Organic Light-Emitting Diodes. **2017**, 29, 3623-3631	176
789	Blue organic light-emitting diodes realizing external quantum efficiency over 25% using thermally activated delayed fluorescence emitters. **2017**, 7, 284	71
788	An Alternative Host Material for Long-Lifespan Blue Organic Light-Emitting Diodes Using Thermally Activated Delayed Fluorescence. **2017**, 4, 1600502	69
787	Highly efficient and color tunable thermally activated delayed fluorescent emitters and their applications for the solution-processed OLEDs. **2017**, 139, 326-333	10
786	Significant Enhancement of Blue OLED Performances through Molecular Engineering of Pyrimidine-Based Emitter. **2017**, 5, 1600843	54
785	Tuning emissive characteristics and singlet-triplet energy splitting of fluorescent emitters by encapsulation group modification: Yellow TADF emitter for solution-processed OLEDs with high luminance and ultraslow efficiency roll-off. **2017**, 139, 593-600	16
784	High Power Efficiency Blue-to-Green Organic Light-Emitting Diodes Using Isonicotinonitrile-Based Fluorescent Emitters. **2017**, 12, 648-654	21
783	Functional Pyrimidine-Based Thermally Activated Delay Fluorescence Emitters: Photophysics, Mechanochromism, and Fabrication of Organic Light-Emitting Diodes. **2017**, 23, 2858-2866	58
782	Controlling Singlet□Triplet Energy Splitting for Deep-Blue Thermally Activated Delayed Fluorescence Emitters. **2017**, 129, 1593-1597	72
781	Relationship between molecular structure and dipole orientation of thermally activated delayed fluorescent emitters. **2017**, 42, 337-342	34
780	Design strategy of yellow thermally activated delayed fluorescent dendrimers and their highly efficient non-doped solution-processed OLEDs with low driving voltage. **2017**, 42, 123-130	26
779	Thermally Activated Delayed Fluorescence Behavior Investigation in the Different Polarity Acceptor and Donor Molecules. **2017**, 121, 1305-1314	12
778	Triplet decay-induced negative temperature dependence of the transient photoluminescence decay of thermally activated delayed fluorescence emitter. **2017**, 5, 12077-12084	36
777	Enhanced outcoupling in flexible organic light-emitting diodes on scattering polyimide substrates. **2017**, 51, 471-476	27
776	Engineering the excited-state properties of purely organic intramolecular and intermolecular charge transfer emitters towards high-performance fluorescent OLEDs. **2017**, 5, 10991-11000	11

775	Horizontally Orientated Sticklike Emitters: Enhancement of Intrinsic Out-Coupling Factor and Electroluminescence Performance. **2017**, 29, 8630-8636		119
774	Bright white electroluminescence from a single polymer containing a thermally activated delayed fluorescence unit and a solution-processed orange OLED approaching 20% external quantum efficiency. **2017**, 5, 10715-10720		74
773	Highly Efficient Nondoped OLEDs with Negligible Efficiency Roll-Off Fabricated from Aggregation-Induced Delayed Fluorescence Luminogens. **2017**, 129, 13151-13156		46
772	New Molecular Design Concurrently Providing Superior Pure Blue, Thermally Activated Delayed Fluorescence and Optical Out-Coupling Efficiencies. **2017**, 139, 10948-10951		276
771	A Phosphanthrene Oxide Host with Close Sphere Packing for Ultralow-Voltage-Driven Efficient Blue Thermally Activated Delayed Fluorescence Diodes. *Advanced Materials*, **2017**, 29, 1700553	24	64
770	Highly Efficient Nondoped OLEDs with Negligible Efficiency Roll-Off Fabricated from Aggregation-Induced Delayed Fluorescence Luminogens. **2017**, 56, 12971-12976		239
769	Rational design of isophthalonitrile-based thermally activated delayed fluorescence emitters for OLEDs with high efficiency and slow efficiency roll-off. **2017**, 147, 350-356		9
768	Highly Efficient, Conventional, Fluorescent Organic Light-Emitting Diodes with Extended Lifetime. *Advanced Materials*, **2017**, 29, 1702159	24	60
767	Simple InCl Doped PEDOT:PSS and UV-Ozone Treatment Strategy: External Quantum Efficiency up to 21% for Solution-Processed Organic Light-Emitting Devices with a Thermally Activated Delayed Fluorescence Emitter. **2017**, 9, 34139-34145		17
766	New AIEgens with delayed fluorescence for fluorescence imaging and fluorescence lifetime imaging of living cells. **2017**, 1, 2554-2558		66
765	Dipole orientation analysis without optical simulation: application to thermally activated delayed fluorescence emitters doped in host matrix. **2017**, 7, 8405		8
764	Theoretical tuning of the singlet-triplet energy gap to achieve efficient long-wavelength thermally activated delayed fluorescence emitters: the impact of substituents. **2017**, 19, 21639-21647		11
763	Spin-Dependent Exciton Funneling to a Dendritic Fluorophore Mediated by a Thermally Activated Delayed Fluorescence Material as an Exciton-Harvesting Host. **2017**, 29, 7014-7022		38
762	Deep-Red to Near-Infrared Thermally Activated Delayed Fluorescence in Organic Solid Films and Electroluminescent Devices. **2017**, 56, 11525-11529		218
761	Molecular Design of Thermally Activated Delayed-Fluorescent Emitters Using 2,2'-Bipyrimidine as the Acceptor in Donor-Acceptor Structures. **2017**, 12, 2494-2500		9
760	Deep-Red to Near-Infrared Thermally Activated Delayed Fluorescence in Organic Solid Films and Electroluminescent Devices. **2017**, 129, 11683-11687		40
759	Manipulation of Emission Colors Based on Intrinsic and Extrinsic Magneto-Electroluminescence from Exciplex Organic Light-Emitting Diodes. **2017**, 4, 1899-1905		11
758	Recent Advances in Polymer Organic Light-Emitting Diodes (PLED) Using Non-conjugated Polymers as the Emitting Layer and Contrasting Them with Conjugated Counterparts. **2017**, 46, 6246-6281		38

757	Molecular design of thermally activated delayed fluorescent emitters for blue-shifted emission by methoxy substitution. **2017**, 5, 9106-9114	15
756	Thermally Activated Delayed Fluorescence Emitters in Light-Emitting Electrochemical Cells. **2017**, 237-266	6
755	Mobility balance in the light-emitting layer governs the polaron accumulation and operational stability of organic light-emitting diodes. **2017**, 111, 203301	36
754	Donor-Acceptor Motifs: Thermally Activated Delayed Fluorescence Emitters with Dual Upconversion. **2017**, 56, 16536-16540	81
753	DonorAcceptor Motifs: Thermally Activated Delayed Fluorescence Emitters with Dual Upconversion. **2017**, 129, 16763-16767	22
752	Halogen-induced internal heavy-atom effect shortening the emissive lifetime and improving the fluorescence efficiency of thermally activated delayed fluorescence emitters. **2017**, 5, 12204-12210	51
751	A directly coupled dual emitting core based molecular design of thermally activated delayed fluorescent emitters. **2017**, 5, 12143-12150	17
750	CN-Containing donorcceptor-type small-molecule materials for thermally activated delayed fluorescence OLEDs. **2017**, 5, 7699-7714	119
749	n-Doping-induced efficient electron-injection for high efficiency inverted organic light-emitting diodes based on thermally activated delayed fluorescence emitter. **2017**, 5, 8400-8407	21
748	Enhancing thermally activated delayed fluorescence characteristics by intramolecular B-N coordination in a phenylpyridine-containing donor-acceptor system. **2017**, 53, 8723-8726	47
747	Rigidity-Induced Delayed Fluorescence by Ortho Donor-Appended Triarylboron Compounds: Record-High Efficiency in Pure Blue Fluorescent Organic Light-Emitting Diodes. **2017**, 9, 24035-24042	110
746	Siloles in optoelectronic devices. **2017**, 5, 7375-7389	44
745	Pyrimidine-based twisted donor-acceptor delayed fluorescence molecules: a new universal platform for highly efficient blue electroluminescence. **2017**, 8, 953-960	112
744	Long-lived efficient delayed fluorescence organic light-emitting diodes using n-type hosts. **2017**, 8, 2250	120
743	Optimization of period and thickness of the corrugated Ag cathode for efficient cross coupling between SPP and microcavity modes in top-emitting OLEDs. **2017**, 7, 2096	2
742	Solution-processed thermally activated delayed fluorescence organic light-emitting diodes using a new polymeric emitter containing non-conjugated cyclohexane units. **2018**, 9, 1318-1326	53
741	Molecular engineering of pyrimidine-containing thermally activated delayed fluorescence emitters for highly efficient deep-blue (CIEy 2018, 155, 51-58	26
740	Blue thermally activated delayed fluorescence emitters with a pyridoindole donor moiety. **2018**, 42, 5532-5539	6

739	A Methodological Study on Tuning the Thermally Activated Delayed Fluorescent Performance by Molecular Constitution in Acridine-Benzophenone Derivatives. **2018**, 13, 1187-1191	9
738	Highly Efficient Deep Blue Fluorescent Organic Light-Emitting Diodes Boosted by Thermally Activated Delayed Fluorescence Sensitization. **2018**, 10, 10246-10253	59
737	Diboron compound-based organic light-emitting diodes with high efficiency and reduced efficiency roll-off. **2018**, 12, 235-240	466
736	Effect of various host characteristics on blue thermally activated delayed fluorescent devices. **2018**, 59, 39-44	15
735	Acquiring High-Performance Deep-Blue OLED Emitters through an Unexpected Blueshift Color-Tuning Effect Induced by Electron-Donating -OMe Substituents. **2018**, 24, 8056-8060	30
734	Blue thermally activated delayed fluorescence materials based on bi/tri-carbazole derivatives. **2018**, 58, 238-244	3
733	Probing Triplet Excited States and Managing Blue Light Emission of Neutral Tetradentate Platinum(II) Complexes. **2018**, 9, 2285-2292	23
732	Triazatruxene: A Rigid Central Donor Unit for a D-A Thermally Activated Delayed Fluorescence Material Exhibiting Sub-Microsecond Reverse Intersystem Crossing and Unity Quantum Yield via Multiple Singlet-Triplet State Pairs. **2018**, 5, 1700989	103
731	Highly efficient thermally activated delayed fluorescence emitters based on novel Indolo[2,3-b]acridine electron-donor. **2018**, 57, 327-334	12
730	Integrating the Emitter and Host Characteristics of Donor□Acceptor Systems through Edge-Spiro Effect Toward 100% Exciton Harvesting in Blue and White Fluorescence Diodes. **2018**, 6, 1800165	56
729	All-organic thermally activated delayed fluorescence materials for organic light-emitting diodes. **2018**, 3,	690
728	Deep blue thermally activated delayed fluorescent emitters using CN-modified indolocarbazole as an acceptor and carbazole-derived donors. **2018**, 6, 5012-5017	41
727	Using Ring-Opening Metathesis Polymerization of Norbornene To Construct Thermally Activated Delayed Fluorescence Polymers: High-Efficiency Blue Polymer Light-Emitting Diodes. **2018**, 51, 1598-1604	64
726	Exploring the experimental photoluminescence, Raman and infrared responses and density functional theory results for TFB polymer. **2018**, 236, 24-30	8
725	A blue thermally activated delayed fluorescence emitter developed by appending a fluorene moiety to a carbazole donor with meta-linkage for high-efficiency OLEDs. **2018**, 2, 917-922	31
724	Highly efficient blue organic light-emitting diodes from pyrimidine-based thermally activated delayed fluorescence emitters. **2018**, 6, 2351-2359	41
723	Highly Efficient, Solution-Processed Organic Light-Emitting Diodes Based on Thermally Activated Delayed-Fluorescence Emitter with a Mixed Polymer Interlayer. **2018**, 1, 543-551	15
722	Highly Efficient Red□Orange Delayed Fluorescence Emitters Based on Strong □Accepting Dibenzophenazine and Dibenzoquinoxaline Cores: toward a Rational Pure-Red OLED Design. **2018**, 6, 1701147	127

721	Rational Molecular Design for Deep-Blue Thermally Activated Delayed Fluorescence Emitters. **2018**, 28, 1706023		155
720	Highly efficient green organic light emitting diodes with phenanthroimidazole-based thermally activated delayed fluorescence emitters. **2018**, 6, 2379-2386		43
719	Bis(diphenyltriazine) as a new acceptor of efficient thermally activated delayed fluorescent emitters. **2018**, 151, 75-80		8
718	High-efficiency blue OLEDs based on dendritic dinuclear iridium (III) complexes grafted with fluorene core and blue fluorescence chromospheres. **2018**, 74, 425-432		2
717	Strategies for the Molecular Design of Donor□Acceptor-type Fluorescent Emitters for Efficient Deep Blue Organic Light Emitting Diodes. **2018**, 30, 857-863		62
716	Versatile Indolocarbazole-Isomer Derivatives as Highly Emissive Emitters and Ideal Hosts for Thermally Activated Delayed Fluorescent OLEDs with Alleviated Efficiency Roll-Off. *Advanced Materials*, **2018**, 30, 1705406	24	162
715	Adamantyl Substitution Strategy for Realizing Solution-Processable Thermally Stable Deep-Blue Thermally Activated Delayed Fluorescence Materials. *Advanced Materials*, **2018**, 30, 1705641	24	152
714	High-Performance All-Aryl Phenazasilines via Metal-Free Radical-Mediated C?H Silylation for Organic Light-Emitting Diodes. **2018**, 6, 1701105		11
713	Novel dendritic large molecules as solution-processable thermally activated delayed fluorescent emitters for simple structured non-doped organic light emitting diodes. **2018**, 6, 1160-1170		24
712	Heavy Atom Effect of Bromine Significantly Enhances Exciton Utilization of Delayed Fluorescence Luminogens. **2018**, 10, 17327-17334		50
711	Realizing efficient red thermally activated delayed fluorescence organic light-emitting diodes using phenoxazine/phenothiazine-phenanthrene hybrids. **2018**, 59, 32-38		23
710	Over 20% external quantum efficiency in red thermally activated delayed fluorescence organic light-emitting diodes using a reverse intersystem crossing activating host. **2018**, 6, 5363-5368		10
709	Cyanopyrimidine-Carbazole Hybrid Host Materials for High-Efficiency and Low-Efficiency Roll-Off TADF OLEDs. **2018**, 10, 12930-12936		54
708	Simple phenyl bridge between cyano and pyridine units to weaken the electron-withdrawing property for blue-shifted emission in efficient blue TADF OLEDs. **2018**, 57, 247-254		14
707	Improving Luminescent Performances of Thermally Activated Delayed Fluorescence Conjugated Polymer by Inhibiting the Intra- and Interchain Quenching. **2018**, 6, 1701320		19
706	A universal solution-processable bipolar host based on triphenylamine and pyridine for efficient phosphorescent and thermally activated delayed fluorescence OLEDs. **2018**, 199, 465-474		17
705	Efficient non-doped yellow OLEDs based on thermally activated delayed fluorescence conjugated polymers with an acridine/carbazole donor backbone and triphenyltriazine acceptor pendant. **2018**, 6, 568-574		42
704	□rade-Off□Hidden in Condensed State Solvation: Multiradiative Channels Design for Highly Efficient Solution-Processed Purely Organic Electroluminescence at High Brightness. **2018**, 28, 1704927		79

703	Achieving Nearly 30% External Quantum Efficiency for Orange-Red Organic Light Emitting Diodes by Employing Thermally Activated Delayed Fluorescence Emitters Composed of 1,8-Naphthalimide-Acridine Hybrids. *Advanced Materials*, **2018**, 30, 1704961	24	385
702	Sky-blue thermally activated delayed fluorescence material employing a diphenylethyne acceptor for organic light-emitting diodes. **2018**, 6, 36-42		19
701	Marching Toward Highly Efficient, Pure-Blue, and Stable Thermally Activated Delayed Fluorescent Organic Light-Emitting Diodes. **2018**, 28, 1802558		323
700	Designing dual emitting cores for highly efficient thermally activated delayed fluorescent emitters. **2018**, 6, 11615-11621		21
699	Origin of High Efficiencies for Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes: Atomistic Insight into Molecular Orientation and Torsional Disorder. **2018**, 122, 27191-27197		33
698	Adamantane-Substituted Acridine Donor for Blue Dual Fluorescence and Efficient Organic Light-Emitting Diodes. **2018**, 131, 592		1
697	Organic Upconversion Display with an over 100% Photon-to-photon Upconversion Efficiency and a Simple Pixelless Device Structure. **2018**, 9, 6818-6824		15
696	Importance of Chromophore Rigidity on the Efficiency of Blue Thermally Activated Delayed Fluorescence Emitters. **2018**, 122, 28564-28575		27
695	Efficient and stable sky-blue delayed fluorescence organic light-emitting diodes with CIE below 0.4. **2018**, 9, 5036		82
694	Simple Molecular-Engineering Approach for Enhancing Orientation and Outcoupling Efficiency of Thermally Activated Delayed Fluorescent Emitters without Red-Shifting Emission. **2018**, 10, 43842-43849		24
693	3.5: Investigation of excited-state dynamics upon both photo- and electro-excitation of thermally activated delayed fluorescent molecules. **2018**, 49, 29-34		
692	Solution-Processed TADF Materials and Devices Based on Organic Emitters. **2018**, 501-541		2
691	Dihedral Angle Control of Blue Thermally Activated Delayed Fluorescent Emitters through Donor Substitution Position for Efficient Reverse Intersystem Crossing. **2018**, 10, 35420-35429		51
690	Secondary Acceptor Optimization for Full-Exciton Radiation: Toward Sky-Blue Thermally Activated Delayed Fluorescence Diodes with External Quantum Efficiency of ₿0. *Advanced Materials*, **2018**, 30, e1804228	24	91
689	Perovskite light-emitting diodes based on spontaneously formed submicrometre-scale structures. **2018**, 562, 249-253		1116
688	Theoretical studies on thermally activated delayed fluorescence mechanism of a series of organic light-emitting diodes emitters comprising 2,7-diphenylamino-9,9-dimethylacridine as electron donor. **2018**, 39, 2601-2606		11
687	Optimization on Molecular Restriction for Highly Efficient Thermally Activated Delayed Fluorescence Emitters. **2018**, 6, 1800935		19
686	Incorporating Thermally Activated Delayed Fluorescence into Mechanochromic Luminescent Emitters: High-Performance Solution-Processed Yellow Organic Light Emitting Diodes. **2018**, 6, 1801071		28

685	New Generation of High Efficient OLED Using Thermally Activated Delayed Fluorescent Materials. **2018**,		
684	Thermally Activated Delayed Fluorescence Materials Based on Donor–Acceptor Molecular Systems. **2018**, 377-423		2
683	Investigation of excited-state dynamics upon both photo-excitation and electro-excitation of thermally activated delayed fluorescent molecules. **2018**, 26, 694-699		2
682	Bond Rotations and Heteroatom Effects in Donor-Acceptor-Donor Molecules: Implications for Thermally Activated Delayed Fluorescence and Room Temperature Phosphorescence. **2018**, 83, 14431-14442		45
681	Aggregation, thermal annealing, and hosting effects on performances of an acridan-based TADF emitter. **2018**, 63, 29-40		36
680	Manipulating the positions of CH?N in acceptors of pyrimidine–pyridine hybrids for highly efficient sky-blue thermally activated delayed fluorescent OLEDs. **2018**, 2, 2054-2062		19
679	Room temperature phosphorescence vs. thermally activated delayed fluorescence in carbazole–pyrimidine cored compounds. **2018**, 6, 11128-11136		26
678	Photophysics of Deep Blue Acridane- and Benzonitrile-Based Emitter Employing Thermally Activated Delayed Fluorescence. **2018**, 122, 22796-22801		12
677	A Vision toward Ultimate Optical Out-Coupling for Organic Light-Emitting Diode Displays: 3D Pixel Configuration. **2018**, 5, 1800467		19
676	Isomeric spiro-[acridine-9,9?-fluorene]-2,6-dipyridylpyrimidine based TADF emitters: insights into photophysical behaviors and OLED performances. **2018**, 6, 10088-10100		33
675	Theoretical studies on electroluminescent mechanism of a series of thermally activated delayed fluorescence emitters possessing asymmetric-triazine-cored triads. **2018**, 202, 102-106		7
674	Rational Molecular Design for Efficient Exciton Harvesting, and Deep-Blue OLED Application. **2018**, 6, 1800342		53
673	High-Performance Fluorescent Organic Light-Emitting Diodes Utilizing an Asymmetric Anthracene Derivative as an Electron-Transporting Material. *Advanced Materials*, **2018**, 30, e1707590	24	50
672	A high fluorescence rate is key for stable blue organic light-emitting diodes. **2018**, 6, 7728-7733		29
671	Nearly 100% Horizontal Dipole Orientation and Upconversion Efficiency in Blue Thermally Activated Delayed Fluorescent Emitters. **2018**, 6, 1701340		62
670	A Novel Linking Strategy of Using 9,10-Dihydroacridine to Construct Efficient Host Materials for Red Phosphorescent Organic Light-Emitting Diodes. **2018**, 24, 11755-11762		6
669	Three Times Lifetime Improvement of Red-Emitting Organic Light-Emitting Diodes Based on Bipolar Host Material. **2018**, 7, R57-R61		3
668	6-4: Highly Efficient Deep Blue Thermally Activated Delayed Fluorescent Emitter. **2018**, 49, 56-59		1

667	Red thermally activated delayed fluorescence polymers containing 9H-thioxanthen-9-one-10,10-dioxide acceptor group as pendant or incorporated in backbone. **2018**, 59, 406-413	17
666	A dibenzo[a,c]phenazine-11,12-dicarbonitrile (DBPzDCN) acceptor based thermally activated delayed fluorescent compound for efficient near-infrared electroluminescent devices. **2018**, 6, 6698-6704	34
665	P-178: Synthesis of Reverse Intersystem Crossing Facilitating Host Material for High Efficiency in Red Thermally Activated Delayed Fluorescent Organic Light-emitting Diodes. **2018**, 49, 1829-1831	
664	Dipole-Dipole Interaction Management for Efficient Blue Thermally Activated Delayed Fluorescence Diodes. **2018**, 4, 2154-2167	73
663	Optical Energy Losses in Organic□norganic Hybrid Perovskite Light-Emitting Diodes. **2018**, 6, 1800667	66
662	Chromenopyrazole-Based Bipolar Blue Host Materials for Highly Efficient Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes. **2018**, 30, 5005-5012	28
661	Versatile Exciplex-Forming Co-Host for Improving Efficiency and Lifetime of Fluorescent and Phosphorescent Organic Light-Emitting Diodes. **2018**, 10, 24090-24098	43
660	De Novo Design of Excited-State Intramolecular Proton Transfer Emitters via a Thermally Activated Delayed Fluorescence Channel. **2018**, 140, 8877-8886	102
659	Virtual Screening of Hole Transport, Electron Transport, and Host Layers for Effective OLED Design. **2018**, 58, 2440-2449	13
658	Vibrationally Assisted Intersystem Crossing in Benchmark Thermally Activated Delayed Fluorescence Molecules. **2018**, 9, 4053-4058	47
657	High-Performance Dibenzoheteraborin-Based Thermally Activated Delayed Fluorescence Emitters: Molecular Architectonics for Concurrently Achieving Narrowband Emission and Efficient Triplet□inglet Spin Conversion. **2018**, 28, 1802031	169
656	High-Efficiency Sky Blue to Ultradeep Blue Thermally Activated Delayed Fluorescent Diodes Based on Ortho-Carbazole-Appended Triarylboron Emitters: Above 32% External Quantum Efficiency in Blue Devices. **2018**, 6, 1800385	80
655	Excited state engineering for efficient reverse intersystem crossing. **2018**, 4, eaao6910	192
654	Efficient solution-processed orange-red organic light-emitting diodes based on a novel thermally activated delayed fluorescence emitter. **2018**, 6, 9152-9157	21
653	Efficient deep blue electroluminescence with CIEy ? (0.05□.07) from phenanthroimidazole□cridine derivative hybrid fluorophores. **2018**, 6, 9363-9373	26
652	Phototriggered Depolymerization of Flexible Poly(phthalaldehyde) Substrates by Integrated Organic Light-Emitting Diodes. **2018**, 10, 28062-28068	24
651	Probe exciplex structure of highly efficient thermally activated delayed fluorescence organic light emitting diodes. **2018**, 9, 3111	83
650	Non-doped thermally activated delayed fluorescent organic light-emitting diodes using an intra- and intermolecular exciplex system with a meta-linked acridine□riazine conjugate. **2018**, 6, 9049-9054	12

649	Dual mode OPV-OLED device with photovoltaic and light-emitting functionalities. **2018**, 8, 11472		10
648	Red Organic Light-Emitting Diode with External Quantum Efficiency beyond 20% Based on a Novel Thermally Activated Delayed Fluorescence Emitter. **2018**, 5, 1800436		126
647	To improve the efficiency of thermally activated delayed fluorescence OLEDs by controlling the horizontal orientation through optimizing stereoscopic and linear structures of indolocarbazole isomers. **2018**, 6, 5812-5820		40
646	Boosting the electroluminescence efficiency of solution-processed thermally activated delayed fluorescence OLEDs with a versatile hole-transporting layer of organic–inorganic hybrid perovskite. **2018**, 6, 6305-6311		3
645	Origin and Control of Orientation of Phosphorescent and TADF Dyes for High-Efficiency OLEDs. *Advanced Materials*, **2018**, 30, e1705600	24	155
644	Highly efficient bipolar host materials towards solution-processable blue and green thermally activated delayed fluorescence organic light emitting diodes. **2018**, 6, 10000-10009		19
643	High performance blue-emitting organic light-emitting diodes from thermally activated delayed fluorescence: A guest/host ratio study. **2018**, 124, 055501		21
642	Lensfree OLEDs with over 50% external quantum efficiency via external scattering and horizontally oriented emitters. **2018**, 9, 3207		70
641	Highly efficient green and white fluorescent organic electroluminescent devices with co-doped electron transport material as both supplementary host and blue emitter. **2018**, 204, 668-675		5
640	Design Strategy for Solution-Processable Thermally Activated Delayed Fluorescence Emitters and Their Applications in Organic Light-Emitting Diodes. **2018**, 6, 1800568		129
639	Synthesis and electroluminescent performance of thermally activated delayed fluorescence-conjugated polymers with simple formylphenyl as pendant acceptor. **2018**, 56, 1989-1996		4
638	Purely Organic Materials with Aggregation-Induced Delayed Fluorescence for Efficient Nondoped OLEDs. **2018**, 6, 1800264		123
637	Temperature dependence of the driving properties for a green thermally activated delayed fluorescence device with a mixed host. **2018**, 660, 166-170		
636	Revealing the new potential of an indandione unit for constructing efficient yellow thermally activated delayed fluorescence emitters with short emissive lifetimes. **2018**, 6, 7111-7118		14
635	Ultrahigh Power Efficiency Thermally Activated Delayed Fluorescent OLEDs by the Strategic Use of Electron-Transport Materials. **2018**, 6, 1800376		20
634	Exciton energy transfer in organic light emitting diodes with thermally activated delayed fluorescence dopants. **2018**, 6, 6860-6868		8
633	The electron inductive effect of CF3 on penta-carbazole containing blue emitters: Trade-off between color purity and luminescent efficiency in TADF OLEDs. **2018**, 159, 151-157		22
632	Efficient Thermally Activated Delayed Fluorescence Conjugated Polymeric Emitters with Tunable Nature of Excited States Regulated via Carbazole Derivatives for Solution-Processed OLEDs. **2018**, 51, 4615-4623		35

631	Efficient Near-Infrared Emission by Adjusting the Guest–Host Interactions in Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes. **2018**, 28, 1802597	32
630	High efficiency above 20% in polymeric thermally activated delayed fluorescent organic light-emitting diodes by a host embedded backbone structure. **2019**, 10, 4872-4878	11
629	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. **2019**, 171, 107775	5
628	High-efficiency pure blue thermally activated delayed fluorescence emitters with a preferentially horizontal emitting dipole orientation via a spiro-linked double D–A molecular architecture. **2019**, 7, 10851-10859	33
627	Novel oxacalix[2]arene[2]triazines with thermally activated delayed fluorescence and aggregation-induced emission properties. **2019**, 55, 9559-9562	10
626	Thermally Activated Delayed Fluorescence Polymer Emitters with Tunable Emission from Yellow to Warm White Regulated by Triphenylamine Derivatives. **2019**, 1, 2204-2212	7
625	Molecular engineering of thermally activated delayed fluorescence emitters to concurrently achieve high performance and reduced efficiency roll-off in organic light-emitting diodes. **2019**, 7, 9966-9974	11
624	Construction of Efficient Deep-Red/Near-Infrared Emitter Based on a Large π-Conjugated Acceptor and Delayed Fluorescence OLEDs with External Quantum Efficiency of over 20%. **2019**, 123, 18585-18592	44
623	The effect of a heavy atom on the radiative pathways of an emitter with dual conformation, thermally-activated delayed fluorescence and room temperature phosphorescence. **2019**, 7, 10481-10490	28
622	Revealing resonance effects and intramolecular dipole interactions in the positional isomers of benzonitrile-core thermally activated delayed fluorescence materials. **2019**, 7, 9184-9194	26
621	Purely Organic Crystals Exhibit Bright Thermally Activated Delayed Fluorescence. **2019**, 131, 13656-13665	17
620	High performance two-color hybrid TADF-phosphorescent WOLEDs with bimodal Förster and Dexter-type exciton distribution. **2019**, 75, 105365	7
619	Triazatruxene-based thermally activated delayed fluorescence small molecules with aggregation-induced emission properties for solution-processable nondoped OLEDs with low efficiency roll-off. **2019**, 7, 9719-9725	15
618	Large Increase in External Quantum Efficiency by Dihedral Angle Tuning in a Sky-Blue Thermally Activated Delayed Fluorescence Emitter. **2019**, 7, 1900476	18
617	Red/Near-Infrared Thermally Activated Delayed Fluorescence OLEDs with Near 100 % Internal Quantum Efficiency. **2019**, 131, 14802-14807	23
616	Red/Near-Infrared Thermally Activated Delayed Fluorescence OLEDs with Near 100 % Internal Quantum Efficiency. **2019**, 58, 14660-14665	149
615	Design Strategy of Decorating Phenylcarbazole with a Donor and Acceptor for Blue-Shifted Emission in Thermally Activated Delayed Fluorescent Emitters. **2019**, 25, 11765-11771	5
614	Mechanochromism of a dumbbell D–A–D phenothiazine derivative. **2019**, 43, 12957-12962	7

613	Novel yellow thermally activated delayed fluorescence emitters for highly efficient full-TADF WOLEDs with low driving voltages and remarkable color stability. **2019**, 43, 13339-13348		11
612	Purely Organic Crystals Exhibit Bright Thermally Activated Delayed Fluorescence. **2019**, 58, 13522-13531		43
611	A sterically hindered asymmetric D-A-D' thermally activated delayed fluorescence emitter for highly efficient non-doped organic light-emitting diodes. **2019**, 10, 8129-8134		70
610	Multiple Resonance Effect-Induced Sky-Blue Thermally Activated Delayed Fluorescence with a Narrow Emission Band. **2019**, 21, 9311-9314		91
609	Influence of the Dielectric Constant around an Emitter on Its Delayed Fluorescence. **2019**, 12,		3
608	High-Efficiency Red Organic Light-Emitting Diodes with External Quantum Efficiency Close to 30% Based on a Novel Thermally Activated Delayed Fluorescence Emitter. *Advanced Materials*, **2019**, 31, e1902368	24	152
607	Modulation of Building Block Size in Conjugated Polymers with D–A Structure for Polymer Solar Cells. **2019**, 52, 7929-7938		6
606	Phenothiazine-based derivatives for optoelectronic applications: A review. **2019**, 257, 116189		32
605	Improving the Stability of Green Thermally Activated Delayed Fluorescence OLEDs by Reducing the Excited-State Dipole Moment. **2019**, 123, 29875-29883		14
604	A review of blue light emitting diodes for future solid state lighting and visible light communication applications. **2019**, 136, 106294		9
603	Getting the Right Twist: Influence of Donor–Acceptor Dihedral Angle on Exciton Kinetics and Singlet–Triplet Gap in Deep Blue Thermally Activated Delayed Fluorescence Emitter. **2019**, 123, 27778-27784		23
602	Revealing the Cooperative Relationship between Spin, Energy, and Polarization Parameters toward Developing High-Efficiency Exciplex Light-Emitting Diodes. *Advanced Materials*, **2019**, 31, e1904114	24	29
601	Effect of a Pendant Acceptor on Thermally Activated Delayed Fluorescence Properties of Conjugated Polymers with Backbone-Donor/Pendant-Acceptor Architecture. **2019**, 14, 574-581		7
600	Highly efficient white-emitting thermally activated delayed fluorescence polymers: Synthesis, non-doped white OLEDs and electroluminescent mechanism. **2019**, 65, 104057		47
599	Molecular engineering on all ortho-linked carbazole/oxadiazole hybrids toward highly-efficient thermally activated delayed fluorescence materials in OLEDs. **2019**, 30, 1955-1958		12
598	Dendritic host materials with non-conjugated adamantane cores for efficient solution-processed blue thermally activated delayed fluorescence OLEDs. **2019**, 7, 11845-11850		12
597	Effect of the Host on Deep-Blue Organic Light-Emitting Diodes Based on a TADF Emitter for Roll-Off Suppressing. **2019**, 9,		6
596	1,3,4-Oxadiazole-based Deep Blue Thermally Activated Delayed Fluorescence Emitters for Organic Light Emitting Diodes. **2019**, 123, 24772-24785		17

595	Highly enhanced performance of integrated piezo photo-transistor with dual inverted OLED gate and nanowire array channel. **2019**, 66, 104101		43
594	Recent breakthroughs in thermally activated delayed fluorescence organic light emitting diodes containing non-doped emitting layers. **2019**, 7, 2172-2198		94
593	Achieving Deep-Blue Thermally Activated Delayed Fluorescence in Nondoped Organic Light-Emitting Diodes through a Spiro-Blocking Strategy. **2019**, 4, 1861-1867		22
592	A Blue-Light-Emitting Cadmium Coordination Polymer with 75.4% Photoluminescence Quantum Yield. **2019**, 141, 3400-3403		13
591	Naphthalimide□rylamine derivatives with aggregation induced delayed fluorescence for realizing efficient green to red electroluminescence. **2019**, 7, 2886-2897		26
590	A sky blue thermally activated delayed fluorescence emitter to achieve efficient white light emission through in situ metal complex formation. **2019**, 7, 3146-3149		11
589	Phenazasiline/Spiroacridine Donor Combined with Methyl-Substituted Linkers for Efficient Deep Blue Thermally Activated Delayed Fluorescence Emitters. **2019**, 11, 7199-7207		47
588	Efficient full-colour organic light-emitting diodes based on donor-acceptor electroluminescent materials with a reduced singlet-triplet splitting energy gap.. **2019**, 9, 2948-2966		7
587	Simultaneous enhancement of efficiency and stability of OLEDs with thermally activated delayed fluorescence materials by modifying carbazoles with peripheral groups. **2019**, 62, 393-402		23
586	Control of the dual emission from a thermally activated delayed fluorescence emitter containing phenothiazine units in organic light-emitting diodes.. **2019**, 9, 4336-4343		18
585	The roles of thermally activated delayed fluorescence sensitizers for efficient red fluorescent organic light-emitting diodes with D□A type emitters. **2019**, 3, 161-167		11
584	Blue thermally activated delayed fluorescence emitters based on a constructing strategy with diversed donors and oxadiazole acceptor and their efficient electroluminescent devices. **2019**, 94, 103-112		7
583	Crystallization induced enantiomer division (CIED) of □expanded benzoacridine regioisomers. **2019**, 170, 107616		3
582	A red thermally activated delayed fluorescence emitter employing dipyridophenazine with a gradient multi-inductive effect to improve radiation efficiency. **2019**, 7, 7525-7530		32
581	Quinoxaline and Pyrido[x,y-b]pyrazine-Based Emitters: Tuning Normal Fluorescence to Thermally Activated Delayed Fluorescence and Emitting Color over the Entire Visible-Light Range. **2019**, 25, 10926-10937		14
580	Rational Molecular Design of Dibenzo[,]phenazine-Based Thermally Activated Delayed Fluorescence Emitters for Orange-Red OLEDs with EQE up to 22.0. **2019**, 11, 26144-26151		45
579	Realizing 22.5% External Quantum Efficiency for Solution-Processed Thermally Activated Delayed-Fluorescence OLEDs with Red Emission at 622 nm via a Synergistic Strategy of Molecular Engineering and Host Selection. *Advanced Materials*, **2019**, 31, e1901404	24	122
578	Combining the qualities of carbazole and tetraphenyl silane in a desirable main chain for thermally activated delayed fluorescence polymers. **2019**, 10, 4201-4208		11

577	Tri-Spiral Donor for High Efficiency and Versatile Blue Thermally Activated Delayed Fluorescence Materials. **2019**, 131, 11423	1
576	Tuning the emissive characteristics of TADF emitters by fusing heterocycles with acridine as donors: highly efficient orange to red organic light-emitting diodes with EQE over 20%. **2019**, 7, 9087-9094	16
575	Phosphorescent and TADF polymers and dendrimers in solution-processed self-host organic light-emitting diodes: structure analysis and design perspectives. **2019**, 3, 1699-1721	20
574	Highly efficient yellow nondoped thermally activated delayed fluorescence OLEDs by utilizing energy transfer between dual conformations based on phenothiazine derivatives. **2019**, 170, 107636	24
573	Delayed Blue Fluorescence via Upper-Triplet State Crossing from C-C Bonded Donor-Acceptor Charge Transfer Molecules with Azatriangulene Cores. **2019**, 31, 6684-6695	22
572	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. **2019**, 50, 470-473	
571	15H-Diindolo[2,3-b:1?,2?,3?-lm]carbazole: a novel rigid donor for highly efficient thermally activated delayed fluorescence emitters. **2019**, 7, 8037-8044	13
570	Spirobicyclic host material with pseudo-intramolecular charge transfer: Improving color purity of high-performance pure-blue and white thermally activated delayed fluorescence diodes. **2019**, 374, 471-478	31
569	P-144: High Luminous Efficacy White OLED for Lighting. **2019**, 50, 1767-1770	1
568	Green solution-processed thermally activated delayed fluorescence OLEDs with improved performance by using interfacial exciplex host. **2019**, 73, 36-42	8
567	Exciplex System with Increased Donor-Acceptor Distance as the Sensitizing Host for Conventional Fluorescent OLEDs with High Efficiency and Extremely Low Roll-Off. **2019**, 11, 22595-22602	27
566	High-Efficiency Red and Near-Infrared Organic Light-Emitting Diodes Enabled by Pure Organic Fluorescent Emitters and an Exciplex-Forming Cohost. **2019**, 11, 23417-23427	29
565	Fluorenone-based thermally activated delayed fluorescence materials for orange-red emission. **2019**, 73, 240-246	7
564	Tri-Spiral Donor for High Efficiency and Versatile Blue Thermally Activated Delayed Fluorescence Materials. **2019**, 58, 11301-11305	128
563	Bicolor switching mechanism of multifunctional light-emitting molecular material in solid phase. **2019**, 71, 212-219	10
562	The effect of frontier orbital distribution of the core structure on the photophysics and device performances of thermally activated delayed fluorescence emitters. **2019**, 7, 7760-7767	10
561	Acridan-Grafted Poly(biphenyl germanium) with High Triplet Energy, Low Polarizability, and an External Heavy-Atom Effect for Highly Efficient Sky-Blue TADF Electroluminescence. **2019**, 131, 11439	
560	Acridan-Grafted Poly(biphenyl germanium) with High Triplet Energy, Low Polarizability, and an External Heavy-Atom Effect for Highly Efficient Sky-Blue TADF Electroluminescence. **2019**, 58, 11317-11323	21

559	Teaching an Old Poly(arylene ether) New Tricks: Efficient Blue Thermally Activated Delayed Fluorescence. **2019**, 15, 147-155		28
558	Chiral Octahydro-Binaphthol Compound-Based Thermally Activated Delayed Fluorescence Materials for Circularly Polarized Electroluminescence with Superior EQE of 32.6% and Extremely Low Efficiency Roll-Off. *Advanced Materials*, **2019**, 31, e1900524	24	123
557	Exciplex-Based Electroluminescence: Over 21% External Quantum Efficiency and Approaching 100 lm/W Power Efficiency. **2019**, 10, 2811-2816		31
556	Aggregation-Induced Delayed Fluorescence. **2019**, 3, 993-999		18
555	Thiophene Disubstituted Benzothiadiazole Derivatives: An Effective Planarization Strategy Toward Deep-Red to Near-Infrared (NIR) Organic Light-Emitting Diodes. **2019**, 7, 276		19
554	Influence of the bias-dependent emission zone on exciton quenching and OLED efficiency. **2019**, 70, 219-226		15
553	Highly efficient and bright blue organic light-emitting devices based on solvent engineered, solution-processed thermally activated delayed fluorescent emission layer. **2019**, 71, 1-6		9
552	Pushing the Efficiency Envelope for Semiconductor Nanocrystal-Based Electroluminescence Devices Using Anisotropic Nanocrystals. **2019**, 31, 3066-3082		40
551	Integrating TADF luminogens with AIE characteristics using a novel acridine□arbazole hybrid as donor for high-performance and low efficiency roll-off OLEDs. **2019**, 7, 9487-9495		35
550	Four-Coordinate Boron Emitters with Tridentate Chelating Ligand for Efficient and Stable Thermally Activated Delayed Fluorescence Organic Light-Emitting Devices. **2019**, 131, 9186-9192		9
549	A Highly Efficient Red Metal-free Organic Phosphor for Time-Resolved Luminescence Imaging and Photodynamic Therapy. **2019**, 11, 18103-18110		43
548	Management of thermally activated delayed fluorescence using a secondary electron accepting unit in thermally activated delayed fluorescent emitters. **2019**, 7, 6465-6474		15
547	Four-Coordinate Boron Emitters with Tridentate Chelating Ligand for Efficient and Stable Thermally Activated Delayed Fluorescence Organic Light-Emitting Devices. **2019**, 58, 9088-9094		58
546	Investigation on two triphenylene based electron transport materials. **2019**, 62, 775-783		2
545	Molecular Orientation Effects in Organic Light-Emitting Diodes. **2019**, 102, e1900048		17
544	LEDs Based on Small Molecules. **2019**, 215-304		1
543	Bipolar Poly(arylene phosphine oxide) Hosts with Widely Tunable Triplet Energy Levels for High-Efficiency Blue, Green, and Red Thermally Activated Delayed Fluorescence Polymer Light-Emitting Diodes. **2019**, 52, 3394-3403		17
542	Suppressing Efficiency Roll-Off of TADF Based OLEDs by Constructing Emitting Layer With Dual Delayed Fluorescence. **2019**, 7, 302		7

541	Pyrazine-Based Blue Thermally Activated Delayed Fluorescence Materials: Combine Small Singlet-Triplet Splitting With Large Fluorescence Rate. **2019**, 7, 312	12
540	A quantitative description of photoluminescence efficiency of a carbazole-based thermally activated delayed fluorescence emitter. **2019**, 43, 6032-6039	1
539	Naphthyridine-based emitters simultaneously exhibiting thermally activated delayed fluorescence and aggregation-induced emission for highly efficient non-doped fluorescent OLEDs. **2019**, 7, 6607-6615	22
538	Design of Efficient Exciplex Emitters by Decreasing the Energy Gap Between the Local Excited Triplet (LE) State of the Acceptor and the Charge Transfer (CT) States of the Exciplex. **2019**, 7, 188	3
537	-Benzoimidazole/Oxadiazole Hybrid Universal Electron Acceptors for Highly Efficient Exciplex-Type Thermally Activated Delayed Fluorescence OLEDs. **2019**, 7, 187	3
536	Utilizing a Spiro TADF Moiety as a Functional Electron Donor in TADF Molecular Design toward Efficient Multichannel Reverse Intersystem Crossing. **2019**, 29, 1808088	63
535	Development of Materials for Blue Organic Light Emitting Devices. **2019**, 19, 1667-1692	10
534	A spiro-silafluorene phenazasiline donor-based efficient blue thermally activated delayed fluorescence emitter and its host-dependent device characteristics. **2019**, 7, 4191-4198	22
533	Isomeric Bright Sky-Blue TADF Emitters Based on Bisacridine Decorated DBNA: Impact of Donor Locations on Luminescent and Electroluminescent Properties. **2019**, 7, 1900130	56
532	Impact of Methoxy Substituents on Thermally Activated Delayed Fluorescence and Room-Temperature Phosphorescence in All-Organic Donor-Acceptor Systems. **2019**, 84, 3801-3816	27
531	Benzofuroacridine and benzothienoacridine as new donor moieties for emission color management of thermally activated delayed fluorescent emitters. **2019**, 7, 4573-4580	14
530	Solution-processible 1,3,4-oxadiazole/spiro[fluorene-9,9?- xanthene] hybrid as efficient host for green thermally activated delayed fluorescence devices. **2019**, 166, 168-173	12
529	Review of Molecular Engineering for Horizontal Molecular Orientation in Organic Light-Emitting Devices. **2019**, 92, 716-728	59
528	1,8-Naphthalimide-based circularly polarized TADF enantiomers as the emitters for efficient orange-red OLEDs. **2019**, 70, 71-77	41
527	High-Efficiency Sky Blue-To-Green Fluorescent Emitters Based on 3-Pyridinecarbonitrile Derivatives. **2019**, 7, 254	3
526	Highly efficient blue thermally activated delayed fluorescence emitters based on symmetrical and rigid oxygen-bridged boron acceptors. **2019**, 13, 540-546	364
525	Blue organic light-emitting diodes: current status, challenges, and future outlook. **2019**, 7, 5874-5888	235
524	2D- 2A type cruciform host material with silane core for highly efficient solution-processable green thermally activated delayed fluorescence organic light emitting diodes. **2019**, 167, 120-126	6

523	Triggering Thermally Activated Delayed Fluorescence by Managing the Heteroatom in Donor Scaffolds: Intriguing Photophysical and Electroluminescence Properties. **2019**, 14, 2251-2258		14
522	Controlling Horizontal Dipole Orientation and Emission Spectrum of Ir Complexes by Chemical Design of Ancillary Ligands for Efficient Deep-Blue Organic Light-Emitting Diodes. *Advanced Materials*, **2019**, 31, e1808102	24	61
521	Highly Twisted Donor-Acceptor Boron Emitter and High Triplet Host Material for Highly Efficient Blue Thermally Activated Delayed Fluorescent Device. **2019**, 11, 14909-14916		57
520	Theoretical study on photophysical properties of a series of functional pyrimidine-based organic light-emitting diodes emitters presenting thermally activated delayed fluorescence. **2019**, 40, 1578-1585		9
519	A novel molecular design employing a backbone freezing linker for improved efficiency, sharpened emission and long lifetime in thermally activated delayed fluorescence emitters. **2019**, 7, 2919-2926		27
518	Nonsymmetrical Connection of Two Identical Building Blocks: Constructing Donor-Acceptor Molecules as Deep Blue Emitting Materials for Efficient Organic Emitting Diodes. **2019**, 10, 842-847		33
517	Bluish-Green Thermally Activated Delayed Fluorescence Material for Blue-Hazard Free Hybrid White Organic Light-Emitting Device with High Color Quality and Low Efficiency Roll-Off. **2019**, 7, 1801718		28
516	Solution-Processed Thermally Activated Delayed Fluorescent OLED with High EQE as 31% Using High Triplet Energy Crosslinkable Hole Transport Materials. **2019**, 29, 1901025		79
515	A Series of Dibenzofuran-Based n-Type Exciplex Host Partners Realizing High-Efficiency and Stable Deep-Red Phosphorescent OLEDs. **2019**, 25, 7308-7314		30
514	Quinazoline-Based Thermally Activated Delayed Fluorecence for High-Performance OLEDs with External Quantum Efficiencies Exceeding 20%. **2019**, 7, 1801496		17
513	Recent Progress of Singlet-Exciton-Harvesting Fluorescent Organic Light-Emitting Diodes by Energy Transfer Processes. *Advanced Materials*, **2019**, 31, e1803714	24	103
512	Efficient thermally activated delayed fluorescence based on carbonitrile-substituted pyridine and carbazole. **2019**, 7, 13754-13758		2
511	Highly efficient red thermally activated delayed fluorescence materials based on a cyano-containing planar acceptor. **2019**, 7, 15301-15307		18
510	Highly efficient nondoped blue organic light-emitting diodes with high brightness and negligible efficiency roll-off based on anthracene-triazine derivatives. **2019**, 7, 14881-14888		23
509	Thermally activated delayed fluorescence with 7% external quantum efficiency from a light-emitting electrochemical cell. **2019**, 10, 5307		27
508	Peripheral Decoration of Dibenzofuran with Donors and Acceptors as a New Design Platform for Thermally Activated Delayed Fluorescence Emitters. **2019**, 31, 10023-10031		9
507	An excellent bipolar host material exhibiting EQE of 24.0% with small efficiency roll-off in solution-processable thermally activated delayed fluorescence OLEDs. **2019**, 7, 13930-13938		11
506	Strategic tuning of excited-state properties of electroluminescent materials with enhanced hot exciton mixing.. **2019**, 9, 33693-33709		1

505	Blue thermally activated delayed fluorescence emitters incorporating acridan analogues with heavy group 14 elements for high-efficiency doped and non-doped OLEDs. **2019**, 10, 10687-10697	57
504	Perspective on Host Materials for Thermally Activated Delayed Fluorescence Organic Light Emitting Diodes. **2019**, 7, 1800565	106
503	A Series of Imidazo[1,2-f]phenanthridine-Based Sky-Blue TADF Emitters Realizing EQE of over 20%. **2019**, 7, 1801282	33
502	Monothiatruxene-Based, Solution-Processed Green, Sky-Blue, and Deep-Blue Organic Light-Emitting Diodes with Efficiencies Beyond 5% Limit. **2019**, 29, 1807572	13
501	Alleviating Efficiency Roll-Off of Hybrid Single-Emitting Layer WOLED Utilizing Bipolar TADF Material as Host and Emitter. **2019**, 11, 2197-2204	36
500	Solution-processed aggregation-induced delayed fluorescence (AIDF) emitters based on strong accepting triazine cores for highly efficient nondoped OLEDs with low efficiency roll-off. **2019**, 65, 170-178	23
499	Simply Structured Near-Infrared Emitters with a Multicyano Linear Acceptor for Solution-Processed Organic Light-Emitting Diodes. **2019**, 25, 1010-1017	27
498	Aggregation-Induced Delayed Fluorescence Luminogens for Efficient Organic Light-Emitting Diodes. **2019**, 14, 828-835	26
497	Adamantane-Substituted Acridine Donor for Blue Dual Fluorescence and Efficient Organic Light-Emitting Diodes. **2019**, 58, 582-586	78
496	The Design of Fused Amine/Carbonyl System for Efficient Thermally Activated Delayed Fluorescence: Novel Multiple Resonance Core and Electron Acceptor. **2019**, 7, 1801536	97
495	Enhancing Reverse Intersystem Crossing via Secondary Acceptors: toward Sky-Blue Fluorescent Diodes with 10-Fold Improved External Quantum Efficiency. **2019**, 11, 4185-4192	20
494	Hydrophilic, Red-Emitting, and Thermally Activated Delayed Fluorescence Emitter for Time-Resolved Luminescence Imaging by Mitochondrion-Induced Aggregation in Living Cells. **2019**, 6, 1801729	56
493	Thermally Activated Delayed Fluorescence Materials: Towards Realization of High Efficiency through Strategic Small Molecular Design. **2019**, 25, 5623-5642	100
492	Molecular Design Tactics for Highly Efficient Thermally Activated Delayed Fluorescence Emitters for Organic Light Emitting Diodes. **2019**, 19, 1499-1517	18
491	Rational Molecular Design Overcoming the Long Delayed Fluorescence Lifetime and Serious Efficiency Roll-Off in Blue Thermally Activated Delayed Fluorescent Devices. **2019**, 25, 642-648	24
490	Synthesis of Linear and V-Shaped Carbazolyl-Substituted Pyridine-3,5-dicarbonitriles Exhibiting Efficient Bipolar Charge Transport and E-Type Fluorescence. **2019**, 25, 3325-3336	5
489	High Performance Thermally Activated Delayed Fluorescence Sensitized Organic Light-Emitting Diodes. **2019**, 19, 1611-1623	27
488	Unveiling the Role of Langevin and Trap-Assisted Recombination in Long Lifespan OLEDs Employing Thermally Activated Delayed Fluorophores. **2019**, 11, 1096-1108	37

487	Triplet Harvesting by a Fluorescent Emitter Using a Phosphorescent Sensitizer for Blue Organic-Light-Emitting Diodes. **2019**, 11, 26-30		28
486	Recent Advances in Conjugated TADF Polymer Featuring in Backbone-Donor/Pendant-Acceptor Structure: Material and Device Perspectives. **2019**, 19, 1624-1643		18
485	A theoretical investigation on the thermally activated delayed fluorescence characteristics of the isomers of DTCBPy. **2019**, 86, 125-131		4
484	Blue thermally activated delayed fluorescence emitter using modulated triazines as electron acceptors. **2020**, 172, 107864		14
483	Alkyl chain-dependent ESIPT luminescent switches of phenothazine derivatives in response to force. **2020**, 172, 107835		9
482	An effective strategy for simply varying relative position of two carbazole groups in the thermally activated delayed fluorescence emitters to achieve deep-blue emission. **2020**, 226, 117564		6
481	Emerging Self-Emissive Technologies for Flexible Displays. *Advanced Materials*, **2020**, 32, e1902391	24	55
480	CN-Modified Imidazopyridine as a New Electron Accepting Unit of Thermally Activated Delayed Fluorescent Emitters. **2020**, 26, 845-852		4
479	Multi-substituted dibenzo[a,c]phenazine derivatives as solution-processable thermally activated delayed fluorescence materials for orange□ed organic light-emitting diodes. **2020**, 173, 107957		13
478	Highly efficient ternary polymer-based solution-processable exciplex with over 20% external quantum efficiency in organic light-emitting diode. **2020**, 76, 105449		14
477	Bright Deep Blue TADF OLEDs: The Role of Triphenylphosphine Oxide in NPB/TPBi:PPh3O Exciplex Emission. **2020**, 8, 0191282		3
476	Efficient Orange□Red Delayed Fluorescence Organic Light-Emitting Diodes with External Quantum Efficiency over 26%. **2020**, 6, 1900843		27
475	Bridging Small Molecules to Conjugated Polymers: Efficient Thermally Activated Delayed Fluorescence with a Methyl-Substituted Phenylene Linker. **2020**, 59, 1320-1326		42
474	Polymorph-Dependent Thermally Activated Delayed Fluorescence Emitters: Understanding TADF from a Perspective of Aggregation State. **2020**, 59, 9972-9976		42
473	Nonlinear optoelectronic processes in organic optoelectronic devices: Triplet-triplet annihilation and singlet fission. **2020**, 139, 100519		29
472	Simultaneous and Significant Improvements in Efficiency and Stability of Deep-Blue Organic Light Emitting Diodes through Friedel-Crafts Arylmethylation of a Fluorophore. **2020**, 4, 321-326		7
471	Molecular design featuring carbazole-decorated 15H-diindolo[2,3-b:1?,2?,3?-lm]carbazole for improved efficiency and lifetime of thermally activated delayed fluorescence emitters. **2020**, 8, 2491-2499		4
470	Innovative Organic Electroluminescent Materials with a Doublet Ground State: A Theoretical Investigation. **2020**, 124, 662-673		2

469	2,3-Dimethylindole as a donor for novel thermally activated delayed fluorescence emitters. **2020**, 44, 2961-2965	2
468	Minimization of solid-state conformational disorder in donor-acceptor TADF compounds. **2019**, 22, 265-272	22
467	Fusing acridine and benzofuran/benzothiophene as a novel hybrid donor for high-performance and low efficiency roll-off TADF OLEDs. **2020**, 8, 1864-1870	13
466	Charge-Transfer Exciton Manipulation Based on Hydrogen Bond for Efficient White Thermally Activated Delayed Fluorescence. **2020**, 30, 1908568	40
465	Benzoylpyridine-based TADF emitters with AIE feature for efficient non-doped OLEDs by both evaporation and solution process. **2020**, 176, 108179	15
464	J-Aggregation Enhances the Electroluminescence Performance of a Sky-Blue Thermally Activated Delayed-Fluorescence Emitter in Nondoped Organic Light-Emitting Diodes. **2020**, 12, 2717-2723	27
463	Bridging Small Molecules to Conjugated Polymers: Efficient Thermally Activated Delayed Fluorescence with a Methyl-Substituted Phenylene Linker. **2020**, 132, 1336-1342	11
462	Polymorph-Dependent Thermally Activated Delayed Fluorescence Emitters: Understanding TADF from a Perspective of Aggregation State. **2020**, 132, 10058-10062	5
461	Routes for Efficiency Enhancement in Fluorescent TADF Exciplex Host OLEDs Gained from an Electro-Optical Device Model. **2020**, 6, 1900804	14
460	The role of chemical design in the performance of organic semiconductors. **2020**, 4, 66-77	205
459	Modifying the AIE-TADF chromophore with host-substituents to achieve high efficiency and low roll-off non-doped OLEDs. **2020**, 78, 105602	7
458	Exciplex Formation and Electromer Blocking for Highly Efficient Blue Thermally Activated Delayed Fluorescence OLEDs with All-Solution-Processed Organic Layers. **2020**, 26, 3090-3102	8
457	Efficient and Stable Organic Light-Emitting Diodes Employing Indolo[2,3-]indole-Based Thermally Activated Delayed Fluorescence Emitters. **2020**, 12, 6127-6136	15
456	Harnessing a New Co-Host System and Low Concentration of New TADF Emitters Equipped with Trifluoromethyl- and Cyano-Substituted Benzene as Core for High-Efficiency Blue OLEDs. **2020**, 12, 2724-2732	10
455	Cyclohexane-cored dendritic host materials with high triplet energy for efficient solution-processed blue thermally activated delayed fluorescence OLEDs. **2020**, 174, 108097	5
454	Suppression of Concentration Quenching in Ortho-Substituted Thermally Activated Delayed Fluorescence Emitters. **2020**, 3, 1900185	8
453	Roles of Ancillary Chelates and Overall Charges of Bis-tridentate Ir(III) Phosphors for OLED Applications. **2020**, 12, 1084-1093	20
452	Exciplex-forming derivatives of 2,7-di-tert-butyl-9,9-dimethylacridan and benzotrifluoride for efficient OLEDs. **2020**, 78, 105576	4

451	Pentacyclic Ladder-Heteraborin Emitters Exhibiting High-Efficiency Blue Thermally Activated Delayed Fluorescence with an Ultrashort Emission Lifetime. **2020**, 2, 28-34		37
450	Through Space Charge Transfer for Efficient Sky-Blue Thermally Activated Delayed Fluorescence (TADF) Emitter with Unconjugated Connection. **2020**, 8, 1901150		41
449	High-Performance Nondoped Blue Delayed Fluorescence Organic Light-Emitting Diodes Featuring Low Driving Voltage and High Brightness. **2020**, 7, 1902508		38
448	Efficient Nondoped Pure Blue Organic Light-Emitting Diodes Based on an Anthracene and 9,9-Diphenyl-9,10-dihydroacridine Derivative. **2020**, 15, 163-168		11
447	Pyrimidine-based bipolar host materials for high efficiency solution processed green thermally activated delayed fluorescence OLEDs. **2020**, 8, 2196-2204		9
446	OBO-Fused Benzo[fg]tetracene as Acceptor With Potential for Thermally Activated Delayed Fluorescence Emitters. **2020**, 8, 563411		1
445	A benzoindole-cored building block for deep blue fluorescent materials: synthesis, photophysical properties, and applications in organic light-emitting diodes. **2020**, 8, 16870-16879		3
444	Highly Efficient Deep-Blue OLEDs using a TADF Emitter with a Narrow Emission Spectrum and High Horizontal Emitting Dipole Ratio. *Advanced Materials*, **2020**, 32, e2004083	24	72
443	P-179: Design and Synthesis of Blue Thermally Activated Delayed Fluorescent Emitter with Strong PyCN Acceptor and Multi Donors. **2020**, 51, 2051-2053		
442	P-183: Development of Highly Efficient Long Wavelength Thermally Activated Delayed Fluorescent Organic Light-Emitting Diodes Using an Auxiliary Acceptor as Reverse Intersystem Crossing Promoter. **2020**, 51, 2063-2066		
441	Pyridine-Based Bipolar Hosts for Solution-Processed Bluish-Green Thermally Activated Delayed Fluorescence Devices: A Subtle Regulation of Chemical Stability and Carrier Transportation. **2020**, 12, 49905-49914		12
440	Universal polymeric bipolar hosts for highly efficient solution-processable blue and green thermally activated delayed fluorescence OLEDs. **2020**, 8, 16048-16056		5
439	Efficient Sky-Blue Organic Light-Emitting Diodes Using a Highly Horizontally Oriented Thermally Activated Delayed Fluorescence Emitter. **2020**, 8, 2001354		19
438	Acceptor plane expansion enhances horizontal orientation of thermally activated delayed fluorescence emitters. **2020**, 6,		47
437	Recent advances in biomedical applications of organic fluorescence materials with reduced singlet–triplet energy gaps. **2020**, 425, 213545		35
436	Non-noble-metal-based organic emitters for OLED applications. **2020**, 142, 100581		24
435	Hyperfluorescence-Based Emission in Purely Organic Materials: Suppression of Energy-Loss Mechanisms via Alignment of Triplet Excited States. **2020**, 2, 1412-1418		12
434	Circularly Polarized Thermally Activated Delayed Fluorescence Emitters in Through-Space Charge Transfer on Asymmetric Spiro Skeletons. **2020**, 142, 17756-17765		81

433	An experimental and theoretical study of exciplex-forming compounds containing trifluorobiphenyl and 3,6-di-tert-butylcarbazole units and their performance in OLEDs. **2020**, 8, 14186-14195	3
432	Blue electroluminescent metal halide perovskites. **2020**, 128, 120901	2
431	Meta Junction Promoting Efficient Thermally Activated Delayed Fluorescence in Donor-Acceptor Conjugated Polymers. **2020**, 59, 17903-17909	24
430	High-Performance, Solution-Processable Thermally Activated Delayed Fluorescent Organic Light-Emitting Diodes Realized via the Adjustment of the Composition of the Organoboron Acceptor Monomer in Copolymer Host Materials. **2020**, 12, 35300-35310	11
429	Achieving Submicrosecond Thermally Activated Delayed Fluorescence Lifetime and Highly Efficient Electroluminescence by Fine-Tuning of the Phenoxazine-Pyrimidine Structure. **2020**, 12, 10727-10736	22
428	Asymmetric Host Molecule Bearing Pyridine Core for Highly Efficient Blue Thermally Activated Delayed Fluorescence OLEDs. **2020**, 26, 16383-16391	4
427	1.42-Fold Enhancement of Blue OLED Device Performance by Simply Changing Alkyl Groups on the Acridine Ring. **2020**, 1, 100252	10
426	Highly effective organic light-emitting diodes containing thermally activated delayed fluorescence emitters with horizontal molecular orientation.. **2020**, 10, 42897-42902	5
425	Charge-transfer transition regulation of thermally activated delayed fluorescence emitters by changing the valence of sulfur atoms. **2020**, 8, 17457-17463	5
424	Efficient Yellow Thermally Activated Delayed Fluorescent Emitters Based on 3,5-Dicyanopyridine Acceptors. **2020**, 124, 25489-25498	3
423	Organic light emitting diode devices: An energy efficient solid state lighting for applications. **2020**, 133, 110043	42
422	Novel Triazine-Based Donor–Acceptor Ionic Green Emitters for Nondoped Light-Emitting Electrochemical Cells. **2020**, 124, 19273-19281	7
421	9,9-Dimethyl Dihydroacridine-Based Organic Photocatalyst for Atom Transfer Radical Polymerization from Modifying Unstable Electron Donor. **2020**, 53, 7053-7062	9
420	Design Strategy Towards Horizontally Oriented Luminescent Tetradentate-Ligand-Containing Gold(III) Systems. **2020**, 132, 21209-21217	3
419	Photophysics of TADF Guest-Host Systems: Introducing the Idea of Hosting Potential. **2020**, 2, 2868-2881	25
418	Can attachment of tert-butyl substituents to methoxycarbazole moiety induce efficient TADF in diphenylsulfone-based blue OLED emitters?. **2020**, 86, 105894	4
417	High Triplet Energy Host Materials for Blue TADF OLEDs-A Tool Box Approach. **2020**, 8, 657	7
416	The electron inductive effect of dual non-conjugated trifluoromethyl acceptors for highly efficient thermally activated delayed fluorescence OLEDs. **2020**, 183, 108705	1

415	A Simple and Strong Electron-Deficient 5,6-Dicyano[2,1,3]benzothiadiazole-Cored Donor-Acceptor-Donor Compound for Efficient Near Infrared Thermally Activated Delayed Fluorescence. **2020**, 15, 3029-3036		19
414	Pyrido[2,3-b]pyrazine-based full-color fluoresent materials for high-performance OLEDs. **2020**, 8, 12445-12449		7
413	Molecular engineering of dendritic luminogens with thermally activated delayed fluorescence and aggregation-induced emission characteristics for efficient solution-processed non-doped OLEDs. **2020**, 8, 12272-12283		13
412	Meta Junction Promoting Efficient Thermally Activated Delayed Fluorescence in Donor-Acceptor Conjugated Polymers. **2020**, 132, 18059-18065		6
411	Design Strategy Towards Horizontally Oriented Luminescent Tetradentate-Ligand-Containing Gold(III) Systems. **2020**, 59, 21023-21031		16
410	Highly efficient OLED device based on the double emissive layer with an EQE about 39%. **2020**, 221, 165350		4
409	Organic light emitters exhibiting very fast reverse intersystem crossing. **2020**, 14, 643-649		163
408	Fast spin-flip enables efficient and stable organic electroluminescence from charge-transfer states. **2020**, 14, 636-642		154
407	Conformation Control of Iminodibenzyl-Based Thermally Activated Delayed Fluorescence Material by Tilted Face-to-Face Alignment With Optimal Distance (tFFO) Design. **2020**, 8, 530		5
406	High-efficiency organic light emitting diodes using high-index transparent electrode. **2020**, 87, 105984		1
405	Highly Efficient Thermally Activated Delayed Fluorescence via an Unconjugated Donor-Acceptor System Realizing EQE of Over 30. *Advanced Materials*, **2020**, 32, e2003885	24	76
404	Isotope Effect in the Magneto-Optoelectronic Response of Organic Light-Emitting Diodes Based on Donor-Acceptor Exciplexes. *Advanced Materials*, **2020**, 32, e2004421	24	6
403	An Effective Design Strategy for Robust Aggregation-Induced Delayed Fluorescence Luminogens to Improve Efficiency Stability of Nondoped and Doped OLEDs. **2020**, 8, 2001027		23
402	Thermally Activated Delayed Fluorescence: Beyond the Single Molecule. **2020**, 8, 716		12
401	Thermally Activated Delayed Fluorescence Sensitization for Highly Efficient Blue Fluorescent Emitters. **2020**, 30, 2005898		11
400	Toward See-Through Optoelectronics: Transparent Light-Emitting Diodes and Solar Cells. **2020**, 8, 2001122		16
399	Non-doped organic light-emitting diodes based on phenanthroimidazole-triphenylamine derivatives with a low efficiency roll-off of 9% at a high luminance of 10 000 cd m⍰. **2020**, 8, 14446-14452		7
398	High-Power-Efficiency White Thermally Activated Delayed Fluorescence Diodes Based on Selectively Optimized Intermolecular Interactions. **2020**, 30, 2005165		11

397	Three- and Four-Coordinate, Boron-Based, Thermally Activated Delayed Fluorescent Emitters. **2020**, 8, 2000922	38
396	High triplet energy bipolar host materials with the combination of dibenzofuran and benziimidazobenzoimidazole moieties for blue thermally activated delayed fluorescence emitter. **2020**, 8, 13811-13818	6
395	Thermally Activated Delayed Fluorescence in 1,3,4-Oxadiazoles with Extended Donors. **2020**, 85, 11094-11103	11
394	Refined Setup for Angle-Resolved Photoluminescence Spectroscopy of Thin Films. **2020**, 14,	4
393	A Novel Bridge-Ring Phosphine Oxide Host 5,10-[1,2]Benzenophosphanthrene 5,10-Dioxide for Ultralow-Voltage-Driven Blue Thermally Activated Delayed Fluorescence Diodes. **2020**, 8, 2000052	5
392	Cation doping and strain engineering of CsPbBr3-based perovskite light emitting diodes. **2020**, 8, 6640-6653	15
391	Elevating the triplet level of carbazolyl benzonitrile-based dendritic hosts by suppressing intramolecular charge transfer for solution-processed blue thermally activated delayed fluorescence OLEDs. **2020**, 104, 109941	2
390	A novel donor moiety 9,9?9?-tetramethyl-9,9?10,10?-tetrahydro-2,10?-biacridine via one-pot CH arylation for TADF emitters and their application in highly efficient solution-processable OLEDs. **2020**, 8, 8971-8979	6
389	Molecular Configuration Fixation with CHF Hydrogen Bonding for Thermally Activated Delayed Fluorescence Acceleration. **2020**, 6, 1998-2008	32
388	Highly efficient inkjet printed flexible organic light-emitting diodes with hybrid hole injection layer. **2020**, 85, 105822	18
387	Structural Design of Blue-to-Red Thermally-Activated Delayed Fluorescence Molecules by Adjusting the Strength between Donor and Acceptor. **2020**, 9, 1262-1276	21
386	Molecular Orientations of Delayed Fluorescent Emitters in a Series of Carbazole-Based Host Materials. **2020**, 8, 427	11
385	A simple strategy to achieve efficient thermally activated delayed fluorescent emitters via enhancing electron donating ability of donors. **2020**, 180, 108521	2
384	Bis(diphenylamino)-benzo[4,5]thieno[3,2-b]benzofuran as hole transport material for highly efficient RGB organic light-emitting diodes with low efficiency roll-off and long lifetime. **2020**, 84, 105793	6
383	Superacid-catalyzed Friedel Crafts polyhydroxyalkylation: a straightforward method to construct sky-blue thermally activated delayed fluorescence polymers. **2020**, 11, 3481-3487	4
382	Designing versatile sulfoximine as accepting unit to regulate the photophysical properties of TADF emitters towards high-performance OLEDs. **2020**, 399, 125648	10
381	Recent Advances in Solid-State Lighting Devices Using Transition Metal Complexes Exhibiting Thermally Activated Delayed Fluorescent Emission Mechanism. **2020**, 8, 2000260	36
380	High-Performance Solution-Processed Red Thermally Activated Delayed Fluorescence OLEDs Employing Aggregation-Induced Emission-Active Triazatruxene-Based Emitters. **2020**, 12, 30652-30658	29

379	Highly efficient luminescence from space-confined charge-transfer emitters. **2020**, 19, 1332-1338	182
378	Isomerization enhanced quantum yield of dibenzo[a,c]phenazine-based thermally activated delayed fluorescence emitters for highly efficient orange OLEDs. **2020**, 8, 9639-9645	14
377	Surface-Plasmon-Enhanced Perovskite Light-Emitting Diodes. **2020**, 16, e2001861	17
376	Blue thermally activated delayed fluorescence based on tristriazolotriazine core: Synthesis, property and the application for solution-processed OLEDs. **2020**, 182, 108589	4
375	Near-infrared-II thermally activated delayed fluorescence organic light-emitting diodes. **2020**, 56, 8988-8991	18
374	Distinctly Diverse PLQY and Inverse Solid-State Luminescent Properties in Structure-Similar Diphenyl Sulfone TADF Molecules: A Role of C-C. **2020**, 3, 2000037	2
373	Different RISC rates in benzoylpyridine-based TADF compounds and their implications for solution-processed OLEDs. **2020**, 182, 108579	5
372	Stimuli-Responsive Aggregation-Induced Delayed Fluorescence Emitters Featuring the Asymmetric D-A Structure with a Novel Diarylketone Acceptor Toward Efficient OLEDs with Negligible Efficiency Roll-Off. **2020**, 12, 29528-29539	4
371	Identifying Different Spin Mixing Channels Occurring in Charge-Transfer States. **2020**, 124, 14832-14837	4
370	Oxygen sensing and OLED applications of di-tert-butyl-dimethylacridinyl disubstituted oxygafluorene exhibiting long-lived deep-blue delayed fluorescence. **2020**, 8, 9632-9638	3
369	Theoretical studies on full-color thermally activated delayed fluorescence molecules. **2020**, 8, 5839-5846	4
368	Versatile Pt(II) Pyrazolate Complexes: Emission Tuning via Interplay of Chelate Designs and Stacking Assemblies. **2020**, 12, 16679-16690	15
367	Managed carrier density and distribution in solution-processed emission layer to achieve highly efficient and bright blue organic light-emitting devices. **2020**, 82, 105703	0
366	Benzonitrile and dicyanocarbazole derived electron transport type host materials for improved device lifetime in blue thermally activated delayed fluorescent organic light-emitting diodes. **2020**, 8, 5832-5838	4
365	Effects of Electron Affinity and Steric Hindrance of the Trifluoromethyl Group on the Bridge in Designing Blue Thermally Activated Delayed Fluorescence Emitters. **2020**, 26, 6899-6909	10
364	A Comparative Study via Photophysical and Electrical Characterizations on Interfacial and Bulk Exciplex-Forming Systems for Efficient Organic Light-Emitting Diodes. **2020**, 2, 1011-1019	18
363	Rational Molecular Design of Highly Efficient Yellow-Red Thermally Activated Delayed Fluorescent Emitters: A Combined Effect of Auxiliary Fluorine and Rigidified Acceptor Unit. **2020**, 12, 18730-18738	26
362	Efficient red phosphorescent Ir(III) complexes based on rigid ligands with high external quantum efficiency and low efficiency roll-off. **2020**, 8, 6168-6175	4

361	High-performance thermally activated delayed fluorescence organic light-emitting diodes with a wide gap phosphorescent complex as a sensitizer. **2020**, 8, 5984-5990		8
360	Blue Single-Layer Organic Light-Emitting Diodes Using Fluorescent Materials: A Molecular Design View Point. **2020**, 30, 1910040		42
359	Organic Light-Emitting Diodes: Pushing Toward the Limits and Beyond. *Advanced Materials*, **2020**, 32, e1907539	24	89
358	Molecular-Structure and Device-Configuration Optimizations toward Highly Efficient Green Electroluminescence with Narrowband Emission and High Color Purity. **2020**, 8, 1902142		81
357	Optical Capacitance/Conductance-Voltage Characteristics of Stored Charges in Organic Light-Emitting Diodes. **2020**, 25,		1
356	Recent Developments on Multi-Functional Metal-Free Mechanochromic Luminescence and Thermally Activated Delayed Fluorescence Organic Materials. **2020**, 8, 483		21
355	Light Out-Coupling Management in Perovskite LEDs□What Can We Learn from the Past?. **2020**, 30, 2002570		26
354	Improving the Efficiency of Red Thermally Activated Delayed Fluorescence Organic Light-Emitting Diode by Rational Isomer Engineering. **2020**, 30, 2002681		62
353	Modulating the acceptor structure of dicyanopyridine based TADF emitters: Nearly 30% external quantum efficiency and suppression on efficiency roll-off in OLED. **2020**, 401, 126107		17
352	Radiative and Nonradiative Recombinations in Organic Radical Emitters: The Effect of Guest□Host Interactions. **2020**, 30, 2002916		10
351	Emergence of Impurity-Doped Nanocrystal Light-Emitting Diodes. **2020**, 10,		7
350	Effects of the relative position and number of donors and acceptors on the properties of TADF materials. **2020**, 8, 9476-9494		25
349	Copper-Catalyzed N,N-Diarylation of Amides for the Construction of 9,10-Dihydroacridine Structure and Applications in the Synthesis of Diverse Nitrogen-Embedded Polyacenes. **2020**, 22, 5417-5422		5
348	Optimization of the carbazole□pyrimidine linking pattern for achieving efficient TADF. **2020**, 8, 11192-11200		10
347	The design, synthesis and performance of thermally activated delayed fluorescence macromolecules. **2020**, 11, 1555-1571		30
346	A Red Thermally Activated Delayed Fluorescence Emitter Simultaneously Having High Photoluminescence Quantum Efficiency and Preferentially Horizontal Emitting Dipole Orientation. **2020**, 30, 1908839		73
345	Performance study of the electronic and optical parameters of thermally activated delayed fluorescence nanosized emitters (CCX-I and CCX-II) via DFT, SCC-DFTB and B97-3c approaches. **2020**, 10, 115-124		4
344	A Multifunctional Bipolar Luminogen with Delayed Fluorescence for High-Performance Monochromatic and Color-Stable Warm-White OLEDs. **2020**, 30, 2000019		55

343	Methoxy substituents activated carbazole-based boron dimesityl TADF emitters. **2020**, 8, 4780-4788	16
342	Triarylboron-based TADF emitters with perfluoro substituents: high-efficiency OLEDs with a power efficiency over 100 lm W□. **2020**, 8, 4253-4263	14
341	Recent advances in thermally activated delayed fluorescence for white OLEDs applications. **2020**, 31, 4444-4462	12
340	Recent advances in high performance blue organic light-emitting diodes based on fluorescence emitters. **2020**, 8, 2614-2642	84
339	Efficient donor-acceptor emitter based nonsymmetrical connection for organic emitting diodes with improving exciton utilization.. **2020**, 10, 4002-4013	5
338	Rational Design of Carbazole- and Carboline-Based Polymeric Host Materials for Realizing High-Efficiency Solution-Processed Thermally Activated Delayed Fluorescence Organic Light-Emitting Diode. **2020**, 12, 8485-8494	13
337	The role of photon recycling in perovskite light-emitting diodes. **2020**, 11, 611	71
336	A novel fluorene□indolocarbazole hybrid chromophore to assemble high efficiency deep-blue fluorescent emitters with extended device lifetime. **2020**, 8, 3051-3057	16
335	A Spherically Shielded Triphenylamine and Its Persistent Radical Cation. **2020**, 26, 3264-3269	15
334	Exploiting N□H□□nteractions in 2-(Dimesitylboraneyl)-1H-pyrrole for Luminescence Enhancement. **2020**, 9, 644-651	3
333	Conformation-dependent degradation of thermally activated delayed fluorescence materials bearing cycloamino donors. **2020**, 3,	4
332	Simultaneous realization of high-efficiency, low-drive voltage, and long lifetime TADF OLEDs by multifunctional hole-transporters. **2020**, 8, 7200-7210	11
331	Efficient deep-blue thermally activated delayed fluorescence emitters based on diphenylsulfone-derivative acceptor. **2020**, 178, 108367	6
330	Synergetic interface and morphology modification to achieve highly efficient solution-processed sky-blue organic light-emitting diodes. **2020**, 83, 105721	2
329	Imidazo[1,2-]pyridazine as Building Blocks for Host Materials for High-Performance Red-Phosphorescent Organic Light-Emitting Devices. **2020**, 12, 19701-19709	10
328	Diboron-Based Delayed Fluorescent Emitters with Orange-to-Red Emission and Superior Organic Light-Emitting Diode Efficiency. **2020**, 12, 23199-23206	29
327	Saturated Red Electroluminescence From Thermally Activated Delayed Fluorescence Conjugated Polymers. **2020**, 8, 332	8
326	Structurally controlled singlet-triplet splitting for blue star-shaped thermally activated delayed fluorescence emitters incorporating the tricarbazoles-triazine motifs. **2020**, 84, 105783	3

325	Halogenated π-conjugated polymeric emitters with thermally activated delayed fluorescence for highly efficient polymer light emitting diodes. **2020**, 73, 104800	33
324	Achieving efficient deep-blue TADF in carbazole-pyrimidine compounds. **2020**, 82, 105723	12
323	Tetraphenylbenzene-based AIEgens: horizontally oriented emitters for highly efficient non-doped deep blue OLEDs and hosts for high-performance hybrid WOLEDs. **2020**, 8, 7012-7018	20
322	Spirobiacridine-based Host Material for Highly Efficient Blue Phosphorescent Organic Light-emitting Devices. **2020**, 49, 228-231	1
321	Nanosecond-time-scale delayed fluorescence molecule for deep-blue OLEDs with small efficiency rolloff. **2020**, 11, 1765	159
320	Malononitrile based ternary AIE-ML materials: Experimental proof for emission switch from non-TADF to TADF. **2021**, 88, 106003	4
319	1,8-Naphthalimide-based hybrids for efficient red thermally activated delayed fluorescence organic light-emitting diodes. **2021**, 88, 106012	4
318	Pyridine-substituted triazine as an acceptor for thermally activated delayed fluorescence emitters showing high efficiency and low roll-off in organic light-emitting diodes. **2021**, 20, 100581	3
317	High-efficiency red thermally activated delayed fluorescence emitters based on benzothiophene-fused spiro-acridine donor. **2021**, 405, 126663	22
316	Donor engineering for diphenylsulfone derivatives with both thermally activated delayed fluorescence and aggregation-induced emission properties. **2021**, 184, 108781	6
315	Solution-processed multi-resonance organic light-emitting diodes with high efficiency and narrowband emission. **2021**, 32, 1372-1376	12
314	Triazolotriazine-based thermally activated delayed fluorescence materials for highly efficient fluorescent organic light-emitting diodes (TSF-OLEDs). **2021**, 66, 441-448	21
313	Rational design of perfectly oriented thermally activated delayed fluorescence emitter for efficient red electroluminescence. **2021**, 64, 920-930	17
312	Multi-Layer π-Stacked Molecules as Efficient Thermally Activated Delayed Fluorescence Emitters. **2021**, 133, 5273-5279	8
311	Improving the efficiency of exciplex based OLEDs by controlling the different configurations of the donor. **2021**, 9, 600-608	5
310	Using fluorene to lock electronically active moieties in thermally activated delayed fluorescence emitters for high-performance non-doped organic light-emitting diodes with suppressed roll-off. **2020**, 12, 1495-1502	20
309	Photoluminescent Behaviors of Thermally Activated Delayed Fluorescence Polymeric Emitters in Nanofibers. **2021**, 42, e2000588	1
308	Multi-Layer π-Stacked Molecules as Efficient Thermally Activated Delayed Fluorescence Emitters. **2021**, 60, 5213-5219	35

307	Recent progress in hot exciton materials for organic light-emitting diodes. **2021**, 50, 1030-1069	118
306	Method for accurate experimental determination of singlet and triplet exciton diffusion between thermally activated delayed fluorescence molecules. **2020**, 12, 1121-1125	5
305	High efficiency and long lifetime orange-red thermally activated delayed fluorescent organic light emitting diodes by donor and acceptor engineering. **2021**, 9, 528-536	10
304	Novel Series of Mononuclear Aluminum Complexes for High-Performance Solution-Processed Organic Light-Emitting Devices. **2021**, 60, 6036-6041	3
303	Highly efficient thermally activated delayed fluorescence emitters enabled by double charge transfer pathways via ortho-linked triarylboron/carbazole hybrids. **2021**, 9, 1678-1684	6
302	Novel Series of Mononuclear Aluminum Complexes for High-Performance Solution-Processed Organic Light-Emitting Devices. **2021**, 133, 6101-6106	2
301	Triptycene-imbedded thermally activated delayed fluorescence emitters with excellent film morphologies for applications in efficient nondoped and doped organic light-emitting devices. **2021**, 413, 127418	12
300	Spiral Donor Design Strategy for Blue Thermally Activated Delayed Fluorescence Emitters. **2021**, 13, 5302-5311	32
299	Lowest unoccupied molecular orbital managing function of CN-substituted dibenzofuran in high triplet energy hosts for blue thermally-activated delayed fluorescence organic light-emitting diodes.	0
298	Molecular design opening two emission pathways for high efficiency and long lifetime of thermally activated delayed fluorescent organic light-emitting diodes. **2021**, 9, 7328-7335	4
297	Accumulated Charge Measurement: Control of the Interfacial Depletion Layer by Offset Voltage and Estimation of Band Gap and Electron Injection Barrier. **2021**, 125, 1990-1998	1
296	Origin of High-Efficiency Near-Infrared Organic Thermally Activated Delayed Fluorescence: The Role of Electronic Polarization. **2021**, 125, 1249-1255	5
295	Acceptor-regulated luminescence in carbazole-based charge transfer complexes. **2021**, 23, 5314-5320	1
294	Highly Performances Blue Thermally Activated Delayed Fluorescence Devices and Efficient Host-Emitter Interactions. **2021**, 1739, 012006	
293	Toward High Efficiency Organic Light-Emitting Diodes: Role of Nanoparticles. **2021**, 9, 2001710	4
292	Quinazoline-based thermally activated delayed fluorescence emitters for high-performance organic light-emitting diodes with external quantum efficiencies about 28%. **2021**, 9, 12633-12641	0
291	Developing deep blue (CIEy 2021, 45, 16732-16739	2
290	Purely organic and saturated red emitters for a non-doped electroluminescent device with an EQE of 6.3% and low efficiency roll-off. **2021**, 2, 6068-6074	0

289	Red to orange thermally activated delayed fluorescence polymers based on 2-(4-(diphenylamino)-phenyl)-9-thioxanthen-9-one-10,10-dioxide for efficient solution-processed OLEDs.. **2021**, 11, 24794-24806		2
288	Lifetime-Extending 3-(4-Phenylbenzo[4,5]thieno[3,2-]pyrimidin-2-yl)benzonitrile Acceptor for Thermally Activated Delayed Fluorescence Emitters. **2021**, 13, 2908-2918		7
287	Facile synthesis of multi-resonance ultra-pure-green TADF emitters based on bridged diarylamine derivatives for efficient OLEDs with narrow emission. **2021**, 9, 8308-8313		19
286	A Brief History of OLEDs-Emitter Development and Industry Milestones. *Advanced Materials*, **2021**, 33, e2005630	24	125
285	Recent Advances in Substituent Effects of Blue Thermally Activated Delayed Fluorescence Small Molecules. **2021**, 79, 557		6
284	TD-DFT and Experimental Methods for Unraveling the Energy Distribution of Charge-Transfer Triplet/Singlet States of a TADF Molecule in a Frozen Matrix. **2021**, 125, 1234-1242		5
283	Fluorescent Carbon Dots: Fantastic Electroluminescent Materials for Light-Emitting Diodes. **2021**, 8, 2001977		47
282	Harvesting triplet excitons for near-infrared electroluminescence via thermally activated delayed fluorescence channel. **2021**, 24, 102123		9
281	The critical role of the coordination sphere in the high-efficiency blue-light emission from aminopyrazine metal-organic polymers. **2021**, 186, 109025		1
280	Enhance external quantum efficiency of organic light-emitting devices using thin transparent electrodes. **2021**, 89, 106057		3
279	New carboline-based donors for green exciplex-forming systems. **2021**, 68, 482-490		1
278	The Role of Intermolecular Interactions on the Performance of Organic Thermally Activated Delayed Fluorescence (TADF) Materials. **2021**, 9, 2002135		8
277	Intramolecular-Locked High Efficiency Ultrapure Violet-Blue (CIE-y . **2021**, 31, 2009488		34
276	High-performance quasi-2D perovskite light-emitting diodes: from materials to devices. **2021**, 10, 61		67
275	Spatial donor/acceptor architecture for intramolecular charge-transfer emitter. **2021**, 32, 1245-1248		5
274	Efficient Direct Reverse Intersystem Crossing between Charge Transfer-Type Singlet and Triplet States in a Purely Organic Molecule. **2021**, 22, 625-632		7
273	Investigating HOMO Energy Levels of Terminal Emitters for Realizing High-Brightness and Stable TADF-Assisted Fluorescence Organic Light-Emitting Diodes. **2021**, 7, 2001090		19
272	Strategic Synchronization of 7,7-Dimethyl-5,7-dihydroindeno[2,1-]carbazole for Narrow-Band, Pure Violet Organic Light-Emitting Diodes with an Efficiency of > 5% and a CIE Coordinate of 2021, 13, 14440-14446		11

271	High-Efficiency Red Electroluminescence Based on a Carbene-Cu(I)-Acridine Complex. **2021**, 13, 13478-13486	15
270	Molecular Vibration Accelerates Charge Transfer Emission in a Highly Twisted Blue Thermally Activated Delayed Fluorescence Material. **2021**, 125, 4534-4539	5
269	Adjusting the photophysical properties of AIE-active TADF emitters from through-bond to through-space charge transfer for high-performance solution-processed OLEDs. **2021**, 188, 109208	8
268	Versatile Direct Cyclization Constructs Spiro-acridan Derivatives for Highly Efficient TADF emitters. **2021**, 60, 12376-12380	20
267	Efficient Red Thermally Activated Delayed Fluorescence Emitters Based on a Dibenzonitrile-Substituted Dipyrido[3,2-a:2′,3′-c]phenazine Acceptor. **2021**, 26,	1
266	Controlling the Chain Orientation and Crystal Form of Poly(9,9-dioctylfluorene) Films for Low-Threshold Light-Pumped Lasers. **2021**, 54, 4342-4350	1
265	Versatile Direct Cyclization Constructs Spiro-acridan Derivatives for Highly Efficient TADF emitters. **2021**, 133, 12484-12488	4
264	Effect of TADF Assistance on Performance Enhancement in Solution Processed Green Phosphorescent OLEDs. **2021**, 13,	1
263	Highly efficient near-infrared thermally activated delayed fluorescence material based on a spirobifluorene decorated donor. **2021**, 91, 106088	3
262	Asymmetric Spirobiacridine-based Delayed Fluorescence Emitters for High-performance Organic Light-Emitting Devices. **2021**, 27, 10869-10874	6
261	Molecular Engineering for the Development of a Discotic Nematic Mesophase and Solid-State Emitter in Deep-Blue OLEDs. **2021**, 86, 7256-7262	2
260	Optimizing Charge Transfer and Out-Coupling of A Quasi-Planar Deep-Red TADF Emitter: towards Rec.2020 Gamut and External Quantum Efficiency beyond 30 . **2021**, 60, 14846-14851	29
259	Manipulating Charge-Transfer Excitons by Exciplex Matrix: Toward Thermally Activated Delayed Fluorescence Diodes with Power Efficiency beyond 110 lm W. **2021**, 31, 2102739	4
258	High-Efficiency Thermally Activated Delayed Fluorescence Emitters with High Horizontal Orientation and Narrow Deep-Blue Emission. **2021**, 9, 2100406	10
257	Alternating Donor–Acceptor Conjugated Macrocycle Exhibiting Efficient Thermally Activated Delayed Fluorescence and Spontaneous Horizontal Molecular Orientation. **2021**, 2, 2100021	3
256	Thermally Activated Delayed Fluorescence in Commercially Available Materials for Solution-Process Exciplex OLEDs. **2021**, 13,	2
255	Management of Locally Excited States for Purine-based TADF Emitters: A Method to Reduce Device Efficiency Roll-Off. **2021**, 23, 3839-3843	0
254	28-1: Invited Paper: Efficient Thermally Activated Delayed Fluorescence Emitters with Preferentially Horizontal Dipole Orientations. **2021**, 52, 349-350	

253	Donor–Acceptor Conjugated Polymers with Efficient Thermally Activated Delayed Fluorescence: Random versus Alternative Polymerization. **2021**, 54, 5260-5266		2
252	Optimizing Charge Transfer and Out-Coupling of A Quasi-Planar Deep-Red TADF Emitter: towards Rec.2020 Gamut and External Quantum Efficiency beyond 30 %. **2021**, 133, 14972-14977		2
251	Achieving High Electroluminescence Efficiency and High Color Rendering Index for All-Fluorescent White OLEDs Based on an Out-of-Phase Sensitizing System. **2021**, 31, 2103273		12
250	How to Manipulate Through-Space Conjugation and Clusteroluminescence of Simple AIEgens with Isolated Phenyl Rings. **2021**, 143, 9565-9574		16
249	Triphenylamine-carbazole alternating copolymers bearing thermally activated delayed fluorescent emitting and host pendant groups for solution-processable OLEDs. **2021**, 163, 104898		2
248	Highly efficient thermally activated delayed fluorescence devices using a phosphorescent dye as host. **2021**, 488, 126854		
247	Efficient blue thermally activated delayed fluorescence emitters showing very fast reverse intersystem crossing. **2021**, 14, 071003		5
246	Dihedral Angle Distribution of Thermally Activated Delayed Fluorescence Molecules in Solids Induces Dual Phosphorescence from Charge-Transfer and Local Triplet States. **2021**, 33, 5618-5630		7
245	Nanosecond-time-scale delayed fluorescence towards fast triplet-singlet spin conversion for efficient orange-red OLEDs with negligible efficiency roll-off. **2021**, 415, 128949		16
244	Hypsochromic Shift of Multiple-Resonance-Induced Thermally Activated Delayed Fluorescence by Oxygen Atom Incorporation. **2021**, 60, 17910-17914		42
243	Hypsochromic Shift of Multiple-Resonance-Induced Thermally Activated Delayed Fluorescence by Oxygen Atom Incorporation. **2021**, 133, 18054-18058		10
242	Dendritic Interfacial Exciplex Hosts for Solution-Processed TADF-OLEDs with Power Efficiency Approaching 100 lm W−1. **2021**, 9, 2100752		6
241	Why Do We Still Need a Stable Long Lifetime Deep Blue OLED Emitter?. **2021**,		13
240	Triarylamine-Pyridine-Carbonitriles for Organic Light-Emitting Devices with EQE Nearly 40. *Advanced Materials*, **2021**, 33, e2008032	24	28
239	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. **2021**, 13, 34605-34615		4
238	High-Efficiency Solution-Processable OLEDs by Employing Thermally Activated Delayed Fluorescence Emitters with Multiple Conversion Channels of Triplet Excitons. **2021**, 8, e2101326		12
237	Novel Thenil-Based Ionic Small Molecules for Nondoped Light-Emitting Electrochemical Cells for Ultrapure Green Emission. **2021**, 125, 17993-18001		3
236	New electron-donating segment to develop thermally activated delayed fluorescence emitters for efficient solution-processed non-doped organic light-emitting diodes. **2021**,		

235	Tunable Intramolecular Charge Transfer Effect on Diphenylpyrazine-Based Linear Derivatives and Their Expected Performance in Blue Emitters. **2021**, 9, 2101085		6
234	Deep-red thermally activated delayed fluorescence emitters based on a phenanthroline-containing planar acceptor. **2021**, 192, 109474		2
233	High efficiency blue organic light-emitting diodes with below-bandgap electroluminescence. **2021**, 12, 4868		13
232	Identification of the Key Parameters for Horizontal Transition Dipole Orientation in Fluorescent and TADF Organic Light-Emitting Diodes. *Advanced Materials*, **2021**, 33, e2100677	24	25
231	Unified Framework for Photophysical Rate Calculations in TADF Molecules. **2021**, 17, 5816-5824		3
230	Light extraction in tandem organic light emitting diodes. **2021**, 119, 060504		0
229	Maximizing TADF via Conformational Optimization. **2021**, 125, 7644-7654		1
228	Rational Utilization of Intramolecular Hydrogen Bonds to Achieve Blue TADF with EQEs of Nearly 30% and Single Emissive Layer All-TADF WOLED. **2021**, 13, 44615-44627		5
227	Thermally Activated Delayed Fluorescence Amorphous Molecular Materials for High-Performance Organic Light-Emitting Diodes. **2021**, 13, 46909-46918		2
226	Approaching Nearly 40% External Quantum Efficiency in Organic Light Emitting Diodes Utilizing a Green Thermally Activated Delayed Fluorescence Emitter with an Extended Linear Donor-Acceptor-Donor Structure. *Advanced Materials*, **2021**, 33, e2103293	24	33
225	Spiro-Based Thermally Activated Delayed Fluorescence Emitters with Reduced Nonradiative Decay for High-Quantum-Efficiency, Low-Roll-Off, Organic Light-Emitting Diodes. **2021**, 13, 44628-44640		2
224	Aggregation-induced emission tetraphenylethylene derivative as optical sensor for ammonia detection. 1-6		
223	Realizing Record-High Electroluminescence Efficiency of 31.5 % for Red Thermally Activated Delayed Fluorescence Molecules. **2021**, 133, 23827		5
222	Research Progress of Intramolecular Stacked Small Molecules for Device Applications. *Advanced Materials*, **2021**, e2104125	24	21
221	Realizing Record-High Electroluminescence Efficiency of 31.5 % for Red Thermally Activated Delayed Fluorescence Molecules. **2021**, 60, 23635-23640		28
220	Application of Triplet-Triplet Annihilation Upconversion in Organic Optoelectronic Devices: Advances and Perspectives. *Advanced Materials*, **2021**, 33, e2100704	24	15
219	Efficient orange-red thermally activated delayed fluorescence material containing a cyano group. **2021**, 195, 109731		1
218	Aggregation induced intermolecular charge transfer in simple nonconjugated donor–acceptor system. **2021**, 99, 106309		1

217	On-off switch between red thermally activated delayed fluorescence and conventional fluorescence by isomeric regulation. **2021**, 425, 131510	1
216	Novel D-D?-A structure thermally activated delayed fluorescence emitters realizing over 20% external quantum efficiencies in both evaporation- and solution-processed organic light-emitting diodes. **2021**, 99, 106312	0
215	Achieving host-free near-ultraviolet electroluminescence via electronic state engineering with phosphine oxide. **2022**, 429, 132327	3
214	New hole transport styrene polymers bearing highly extended conjugated side-chain moieties for high-performance solution-processable thermally activated delayed fluorescence OLEDs. **2021**, 12, 1692-1699	0
213	Design and synthesis of yellow- to red-emitting gold(III) complexes containing isomeric thienopyridine and thienoquinoline moieties and their applications in operationally stable organic light-emitting devices. **2021**,	3
212	Luminescence enhancement of lead halide perovskite light-emitting diodes with plasmonic metal nanostructures. **2021**, 13, 16427-16447	1
211	Highly efficient red thermally activated delayed fluorescence emitters by manipulating the molecular horizontal orientation. **2021**, 5, 3209-3215	11
210	Sky-blue thermally activated delayed fluorescence polymers by using a conjugation-confined poly(aryl ether) main chain. **2021**, 12, 2490-2497	2
209	Theoretical Insight into Molecular Orientation for Thermally Activated Delayed Fluorescence Emitters in Vacuum Deposition. **2021**, 125, 1665-1672	4
208	Novel 12,12-dimethyl-7,12-dihydrobenzo[a]acridine as a deep-blue emitting chromophore for OLEDs with narrow-band emission and suppressed efficiency roll-off.	3
207	Organic–inorganic hybrid thin film light-emitting devices: interfacial engineering and device physics. **2021**, 9, 1484-1519	7
206	Matrix-Free Hyperfluorescent Organic Light-Emitting Diodes Based on Carbene–Metal–Amides. **2021**, 9, 2001965	4
205	Evidence of thermal transport anisotropy in stable glasses of vapor deposited organic molecules. **2018**, 2,	14
204	Revealing the mechanism of carrier transport in host-guest systems of organic materials with a modified Poisson and drift-diffusion solver. **2020**, 4,	1
203	Towards Highly Efficient TADF Yellow-Red OLEDs Fabricated by Solution Deposition Methods: Critical Influence of the Active Layer Morphology. **2020**, 10,	11
202	Weaving host matrices with intermolecular hydrogen bonds for high-efficiency white thermally activated delayed fluorescence. **2021**, 12, 14519-14530	2
201	Constitutional isomers of carbazole–benzoyl-pyrimidine-based thermally activated delayed fluorescence emitters for efficient OLEDs. **2021**, 9, 15900-15909	0
200	Design and Synthesis of Novel Phenothiazine-Benzothiadiazine-1,1-dioxide Hybrid Organic Material for OLED Applications. **2021**, 6, 11029-11038	0

199	Side by Side Alignment of Donors Enabling High-Efficiency TADF OLEDs with Insensitivity to Doping Concentration. **2021**, 9, 2101410	4
198	Multiple charge transfer disk-like emitters with fast fluorescence radiation rate and high horizontal dipole orientation for pure blue organic light-emitting diodes. **2021**, 133030	0
197	Boosting external quantum efficiency to 38.6% of sky-blue delayed fluorescence molecules by optimizing horizontal dipole orientation. **2021**, 7, eabj2504	10
196	Hot exciplexes in U-shaped TADF molecules with emission from locally excited states. **2021**, 12, 6179	7
195	CHAPTER 8:Applications of Ionic Liquids in Organic Electronic Devices. **2017**, 196-233	
194	Intramolecular or Intermolecular Charge Transfer Approaches for Highly Efficient TADF Materials and OLEDs. **2017**,	
193	Intramolecular or Intermolecular Charge Transfer Approaches for Highly Efficient TADF Materials and OLEDs. **2017**,	
192	Molecular engineering by □linkers enables delayed fluorescence emitters for high-efficiency sky-blue solution-processed OLEDs. **2022**, 430, 133078	2
191	Positive isotope effect in thermally activated delayed fluorescence emitters based on deuterium-substituted donor units. **2022**, 430, 132822	3
190	Low efficiency roll-off blue TADF OLEDs employing a novel acridine□pyrimidine based high triplet energy host.	1
189	An extended □backbone for highly efficient near-infrared thermally activated delayed fluorescence with enhanced horizontal molecular orientation.. **2021**,	2
188	Donor disubstituted trifluoromethyl benzenes for various electroluminescent devices. **2022**, 198, 109956	2
187	Observation of up-conversion fluorescence from exciplex of m-MTDATA:TPBi blend. **2022**, 243, 118655	2
186	Effective Design Strategy for Aggregation-Induced Emission and Thermally Activated Delayed Fluorescence Emitters Achieving 18% External Quantum Efficiency Pure-Blue OLEDs with Extremely Low Roll-Off. **2021**, 13, 57713-57724	3
185	Organic Devices: Fabrication, Applications, and Challenges. **2022**, 51, 447	2
184	Dipole Moment- and Molecular Orbital-Engineered Phosphine Oxide-Free Host Materials for Efficient and Stable Blue Thermally Activated Delayed Fluorescence. **2021**, e2102141	5
183	Incorporation of Fluorene and Its Heterocyclic Spiro Derivatives To Realize High-Performance and Stable Sky-Blue-Emitting Arylgold(III) Complexes. **2021**, 13, 57673-57683	
182	Spiro Compounds for Organic Light-Emitting Diodes.	6

181	Direct Observation of Ultrafast Access to a Solvent-Independent Singlet-Triplet Equilibrium State in Acridone Solutions. **2021**, 125, 13291-13297	0
180	High-efficiency and low roll-off deep-blue OLEDs enabled by thermally activated delayed fluorescence emitter with preferred horizontal dipole orientation. **2021**, 433, 133598	3
179	Rational strategy of exciplex-type thermally activated delayed fluorescent (TADF) emitters: Stacking of donor and acceptor units of the intramolecular TADF molecule. **2021**, 433, 133546	0
178	Highly Efficient Multi-Resonance Thermally Activated Delayed Fluorescence Material with a Narrow Full Width at Half-Maximum of 0.14□eV. **2021**, e2106462	7
177	Minimization of Solid-State Solvation and Conformation Disorder Corollaries on Performance of Blue TADF Emitters by Multi-Donor-Acceptor Substitution Engineering.	
176	Dual-Acceptor Thermally Activated Delayed Fluorescence Emitter: Achieving High Efficiency and Long Lifetime in Orange-Red OLEDs.	
175	Cohosts with efficient host-to-emitter energy transfer for stable blue phosphorescent organic light-emitting diodes. **2021**, 9, 17412-17418	1
174	Efficient blue thermally activated delayed fluorescent emitters based on a boranaphtho[3,2,1-de]anthracene acceptor. **2021**, 9, 17136-17142	3
173	A Bipolar Delayed Fluorescence Luminogen with Fast Reverse Intersystem Crossing and High Horizontal Dipole Orientation for High-Performance Sky-Blue and White OLEDs. 2102339	1
172	Frontier molecular orbital engineering in spiro-based molecules: achieving aggregation induced delayed fluorescence for non-doped OLEDs.	0
171	Solution-processable orange-red thermally activated delayed fluorescence emitters with 3,6-disubstituted carbazole for highly efficient OLEDs with low efficiency roll-off.	1
170	Random rubbed structure for enhanced light extraction in organic light-emitting diodes. **2022**, 243, 118670	2
169	Multipath exciton harvesting in diazine-based luminescent materials and their applications for organic light-emitting diodes. **2021**, 9, 17265-17286	4
168	Deep Blue Thermally Activated Delayed Fluorescence Emitter: A Balance Between Charge Transfer and Color Purity.	2
167	Ester-substituted thiophene-fused benzothiadiazole as a strong electron acceptor to build D□A red emitters for highly efficient solution-processed OLEDs. **2022**, 10, 1127-1135	2
166	A reverse intersystem crossing managing assistant dopant for high external quantum efficiency red organic light-emitting diodes.	1
165	Luminescent columnar discotics as highly efficient emitters in pure deep-blue OLEDs with an external quantum efficiency of 4.7.. **2021**,	1
164	Highly efficient and stable blue thermally activated delayed fluorescent organic light-emitting diodes. **2022**, 117-191	0

163	Conformational disorder enabled emission phenomena in heavily doped TADF films. **2021**,	2
162	Bipolar 1,8-naphthalimides showing high electron mobility and red AIE-active TADF for OLED applications.. **2022**,	2
161	Fundamental theories of TADF. **2022**, 71-89	
160	Supramolecular gating of TADF process in self-assembled nano-spheres for high-resolution OLED applications.. **2022**,	1
159	Steady-state and transient optoelectronic characteristics of styrene-and quinoline-based derivative. **2022**, 71, 018501	
158	Highly efficient non-doped deep-blue OLED with NTSC CIEy and negligible efficiency roll-off based on emitter possessing hydrogen bond and hybridized excited state. **2022**, 200, 110135	2
157	Dual-acceptor thermally activated delayed fluorescence emitters: Achieving high efficiency and long lifetime in orange-red OLEDs. **2022**, 434, 134728	2
156	Controlling the electronic structures of triphenylene based sky blue TADF emitters by chemical modifications for high efficiency with shorter emission lifetimes. **2022**, 435, 134925	1
155	Using fullerene fragments as acceptors to construct thermally activated delayed fluorescence emitters for high-efficiency organic light-emitting diodes. **2022**, 435, 134731	2
154	Creating efficient delayed fluorescence luminogens with acridine-based spiro donors to improve horizontal dipole orientation for high-performance OLEDs. **2022**, 435, 134934	4
153	Photoluminescence and Electrochemiluminescence of Thermally Activated Delayed Fluorescence (TADF) Emitters Containing Diphenylphosphine Chalcogenide-Substituted Carbazole Donors.	3
152	Making organic light-emitting diodes sustainable from metal-free emitters to less energy-intensive processing. **2022**, 229-280	
151	Dual-channel charge transfer-based thermally activated delayed fluorescence emitter facilitating efficient and low roll-off non-doped devices. **2022**, 135234	1
150	Are Substitutes to Cd-Based Quantum Dots in Displays More Sustainable, Effective, and Cost Competitive? An Alternatives Assessment Approach.	0
149	Face-to-face order-packed mode promotes thermally activated delayed fluorescence to achieve stronger aggregation-induced emission. **2022**, 7, 100432	1
148	A Calix[3]acridan-Based Host-Guest Cocrystal Exhibiting Efficient Thermally Activated Delayed Fluorescence.. **2022**,	2
147	A Calix[3]acridan-Based Host Guest Cocrystal Exhibiting Efficient Thermally Activated Delayed Fluorescence.	
146	Diazine-based thermally activated delayed fluorescence chromophores. **2022**, 200, 110157	6

145	Achieving a 32% EQE solution-processed simple structure OLED via exciplex system. **2022**, 435, 134879	1
144	Increase the Molecular Length to Boost Horizontal Dipole Orientation for High-Efficiency Oleds.	
143	Toward rational design of TADF two-coordinate coinage metal complexes: understanding the relationship between natural transition orbital overlap and photophysical properties. **2022**, 10, 4674-4683	6
142	Efficient thermally activated delayed fluorescence emitters based on a parallelly aligned bi-spiro-acridine donor.	1
141	Research Progress of Red Thermally Activated Delayed Fluorescent Materials Based on Quinoxaline. **2022**, 80, 359	1
140	Quantum simulations of thermally activated delayed fluorescence in an all-organic emitter.. **2022**,	0
139	Isomeric thermally activated delayed fluorescence emitters based on a quinolino[3,2,1-de]acridine-5,9-dione multiple resonance core and carbazole substituent. **2022**, 6, 966-972	3
138	Highly efficient thermally activated delayed fluorescence emitters with suppressed energy loss and a fast reverse intersystem crossing process. **2022**, 10, 3685-3690	0
137	Isomer engineering of dipyrido[3,2-a:3?,4?-c]phenazine-acceptor-based red thermally activated delayed fluorescent emitters.	1
136	Determining non-radiative decay rates in TADF compounds using coupled transient and steady state optical data. **2022**, 10, 4878-4885	2
135	Donor Arylmethylation toward Horizontally Oriented TADF Emitters for Efficient Electroluminescence with 37% External Quantum Efficiency. 2102441	3
134	Enhanced emission directivity from asymmetrically strained colloidal quantum dots.. **2022**, 8, eabl8219	2
133	Change in electron and hole electrical conductions in OLEDs with different doping concentrations of 4CzIPN. 1-9	
132	Temporal Dynamics of Solid-State Thermally Activated Delayed Fluorescence: Disorder or Ultraslow Solvation?. **2022**, 1839-1844	0
131	Design of High-Performance Thermally Activated Delayed Fluorescence Emitters Containing s-Triazine and s-Heptazine with Molecular Orbital Visualization by STM. **2022**, 34, 2624-2635	6
130	Designing Stable Deep-Blue Thermally Activated Delayed Fluorescence Emitters through Controlling the Intrinsic Stability of Triplet Excitons. 2102309	1
129	Boron-Based Multi-Resonance TADF Emitter with Suppressed Intermolecular Interaction and Isomer Formation for Efficient Pure Blue OLEDs.. **2022**, e2107574	5
128	Analyses of emission efficiencies of white organic light-emitting diodes having multiple emitters in single emitting layer. **2022**, 104, 106474	1

127	Highly efficient orange and white OLEDs based on ultrathin phosphorescent emitters with double reverse intersystem crossing system. **2022**, 246, 118852	0
126	Highly efficient hybridized local and Charge-transfer (HLCT) Deep-blue electroluminescence with excellent molecular horizontal orientation. **2022**, 440, 135911	7
125	Nearly 100% exciton utilization in highly efficient red OLEDs based on dibenzothioxanthone acceptor. **2021**,	2
124	Simple Molecular Design Strategy for Multiresonance Induced TADF Emitter: Highly Efficient Deep Blue to Blue Electroluminescence with High Color Purity. **2022**, 10, 2102092	7
123	A Rational Molecular Design Strategy of TADF Emitter for Achieving Device Efficiency Exceeding 36%. **2022**, 10, 2101791	2
122	A Promising Multifunctional Deep-Blue Fluorophor for High-Performance Monochromatic and Hybrid White OLEDs with Superior Efficiency/Color Stability and Low Efficiency Roll-Off. **2022**, 10, 2101920	1
121	High-Performance Orange-Red Organic Light-Emitting Diodes with External Quantum Efficiencies Reaching 33.5% based on Carbonyl-Containing Delayed Fluorescence Molecules.. **2021**, e2104435	7
120	Bright and Efficient Red Light-Emitting Electrochemical Cells with Nondoped Organic Small Molecules: A New Approach. **2022**, 9, 203-210	0
119	Table_1.doc. **2020**,	
118	Data_Sheet_1.pdf. **2020**,	
117	Data_Sheet_1.pdf. **2020**,	
116	Table_1.docx. **2020**,	
115	Data_Sheet_1.PDF. **2020**,	
114	Data_Sheet_1.doc. **2019**,	
113	Presentation_1.pdf. **2019**,	
112	Data_Sheet_1.PDF. **2019**,	
111	Table_1.DOCX. **2019**,	
110	Data_Sheet_1.PDF. **2019**,	

109	Table_1.pdf. **2019**,	
108	Exceptional Class of Thermally Activated Delayed Fluorescent Emitters Comprising Pure Blue, Near-IR, Circularly Polarized Luminescence and Multifunctional Behaviour for Highly Efficient and Stable OLEDs.	0
107	Aggregation-induced emission luminogens for organic light-emitting diodes. **2022**, 315-372	
106	Thermally Activated Delayed Fluorescence Materials Based on Cocrystals of Supramolecular Host and Guest. **2022**, 42, 1256	
105	Aggregation-induced emission luminogens for organic light-emitting diodes with a single-component emitting layer.	1
104	Imidazole Acceptor for Both Vacuum-Processable and Solution-Processable Efficient Blue Thermally Activated Delayed Fluorescence.	1
103	Improving the Efficiency of AIEgen-Based Nondoped Blue Organic Light-Emitting Diode by Rational Isomer Engineering. 1087-1093	0
102	Light extraction from organic light emitting diodes (oleds).	1
101	Optimizing Intermolecular Interactions and Energy Level Alignments of Red TADF Emitters for High-Performance Organic Light-Emitting Diodes.. **2022**, e2201548	4
100	Constructing Organic Electroluminescent Material with Very High Color Purity and Efficiency Based on Polycyclization of Multiple Resonance Parent Core.. **2022**,	3
99	Zero-Zero Energy-Dominated Degradation in Blue Organic Light-Emitting Diodes Employing Thermally Activated Delayed Fluorescence.. **2022**,	0
98	Constructing Organic Electroluminescent Material with Very High Color Purity and Efficiency Based on Polycyclization of Multiple Resonance Parent Core.	
97	Pyrimidine-based thermally activated delayed fluorescent materials with unique asymmetry for highly-efficient organic light-emitting diodes. **2022**, 203, 110373	1
96	Visible-light-triggered fluorescence □turn-on□diarylethenes: Computational molecular design and photophysical studies. **2022**, 248, 118973	0
95	Insights on isomeric emitters with thermally activated delayed fluorescence: Comparison between solvent and crystal state.. **2022**, 278, 121328	0
94	Increase the Molecular Length and Donor Strength to Boost Horizontal Dipole Orientation for High-efficiency OLEDs.	
93	Anthracene-based blue fluorescence materials utilized in non-doped OLEDs with high luminance and a low efficiency roll-off. **2022**, 110391	1
92	Thermally activated delayed fluorescence materials for nondoped organic light-emitting diodes with nearly 100% exciton harvest.	0

91	Exciton Regulation for Organic Light-Emitting Diodes with Improved Efficiency and Roll-Off by Managing the Bipolar Spacer Layers Based on Interfacial Exciplexes.	
90	Intramolecular-Locked Triazatruxene-Based Thermally Activated Delayed Fluorescence Emitter for Efficient Solution-Processed Deep-Blue Organic Light Emitting Diodes. **2022**, 137372	1
89	Large-Scale Deep-Blue TetraphenylbenzeneBridged Hybridized Local and Charge Transfer Fluorophore Exhibiting Small Efficiency Roll-Off and Low Amplified Spontaneous Emission Threshold.	0
88	Apply a TADF emitter with twist configuration for high-performance green OLEDs.	
87	High Performance NIR OLEDs with Emission Peak Beyond 760 nm and Maximum EQE of 6.39%. 2200111	4
86	Exciplexes in OLEDs: Principles and promises. **2022**, 150, 100689	4
85	Efficient M-shaped blue emitters having high conjugation extent with improved roll-off efficiency.	
84	Organic radical emitters: nature of doublet excitons in emissive layers. **2022**, 24, 16891-16899	
83	Rational Molecular Design of TADF Emitters towards Highly Efficient Yellow Electroluminescence with nearly 30% External Quantum Efficiency and Low Roll-Off.	0
82	P-129: Estimating Non-radiative Decay Rates in TADF Emitters Using Steady-State and Transient Optical Data. **2022**, 53, 1495-1498	
81	Nonbonding/Bonding Molecular Orbital Regulation of NitrogenBoronOxygen-embedded Blue/Green Multiresonant TADF Emitters with High Efficiency and Color Purity.	2
80	Molecular Engineering of Sulfur-Bridged Polycyclic Emitters Towards Tunable TADF and RTP Electroluminescence.	6
79	A Series of DAD Structured Disilane-Bridged Triads: Structure and Stimuli-Responsive Luminescence Studies. **2022**, 87, 8928-8938	0
78	Molecular Engineering of Sulfur-Bridged Polycyclic Emitters Towards Tunable TADF and RTP Electroluminescence.	
77	Triarylboron-cored multi-donors TADF emitter with high horizontal dipole orientation ratio achieving high performance OLEDs with near 39% external quantum efficiency and small efficiency Roll-off. **2022**, 450, 137805	2
76	Controlling the Spin Exchange Energy through Charge Transfer for Triplet State Management in Organic Semiconductors. **2022**, 34, 7095-7105	
75	Efficient OLEDs Based on Slot-Die-Coated Multicomponent Emissive Layer. **2022**, 14, 3363	
74	Ornamenting of Blue Thermally Activated Delayed Fluorescence Emitters by Anchor Groups for the Minimization of Solid-State Solvation and Conformation Disorder Corollaries in Non-Doped and Doped Organic Light-Emitting Diodes.	1

73	Thermally Activated Delayed Fluorescence of a Dinuclear Platinum(II) Compound: Mechanism and Roles of an Upper Triplet State.	
72	Diabatic Decomposition Perspective on the Role of Charge Transfer and Local Excitations in Thermally Activated Delayed Fluorescence.	
71	Dipyrido[3,2-a:2?,3?-c]phenazine acceptor based thermally activated delayed fluorescence emitters. **2022**, 206, 110634	
70	High-performance non-doped near ultraviolet OLEDs with the EQE□6□% and CIEy□0.03 from high-lying reverse intersystem crossing. **2022**, 450, 138339	1
69	Dielectric control of reverse intersystem crossing in thermally activated delayed fluorescence emitters. **2022**, 21, 1150-1157	3
68	Approaching 800□nm near-infrared thermally activated delay fluorescence materials via simple malononitrile condensation strategy. **2022**, 110, 106645	0
67	Boosting efficient deep-blue organic light-emitting diodes via tailoring interfacial contact. **2022**, 291, 117160	0
66	Robust sky-blue aggregation-induced delayed fluorescence materials for high-performance top-emitting OLEDs and single emissive layer white OLEDs. **2023**, 451, 138919	1
65	Near-ultraviolet emitters based on carbazole-imidazole for highly efficient solution-processed organic light-emitting diodes. **2023**, 451, 138881	1
64	Singlet-Triplet Splitting Energy Management for Thermally Activated Delayed Fluorescence Emitters: Up-Conversion of Acceptor Triplet into Charge Transfer Singlet State.	0
63	A novel thermally activated delayed fluorescence macrocycle.	1
62	Pure Near-Infrared Thermally Activated Delay Fluorescence Materials Approaching 800 Nm Via Simple Malononitrile Condensation Strategy.	0
61	Achieving over 36% EQE in blue OLEDs using rigid TADF emitters based on spiro-donor and spiro-B-heterotriangulene acceptors. **2023**, 452, 139387	0
60	Achieving highly efficient near-ultraviolet emitters via optimizing molecular configuration by the intramolecular-locked donor and acceptor. **2023**, 452, 139480	2
59	Efficient and Bright Blue Thermally Activated Delayed Fluorescence from Light-Emitting Electrochemical Cells. 2205967	2
58	1,3,5-Triazine-Functionalized Thermally Activated Delayed Fluorescence Emitters for Organic Light-Emitting Diodes. 2200203	1
57	Modulating Supramolecular Charge-Transfer Interactions in the Solid State using Compressible Macrocyclic Hosts.	1
56	Exceeding 30% External Quantum Efficiency in Non-doped OLEDs Utilizing Solution Processable TADF Emitters with High Horizontal Dipole Orientation via Anchoring Strategy.	0

55	Exceeding 30% External Quantum Efficiency in Non-doped OLEDs Utilizing Solution Processable TADF Emitters with High Horizontal Dipole Orientation via Anchoring Strategy.	2
54	High-Performance Deep-Blue OLEDs Harnessing Triplet□Triplet Annihilation Under Low Dopant Concentration. 2200204	1
53	Polarization-Induced Exciton□Polaron Quenching in Organic Light-Emitting Devices and Its Control by Dipolar Doping. 2201348	1
52	Modulating Supramolecular Charge-Transfer Interactions in the Solid State using Compressible Macrocyclic Hosts.	0
51	Benzimidazole-substituted bisanthracene: a highly efficient deep-blue triplet□triplet fusion OLED emitter at low dopant concentration. **2022**, 26, 101185	0
50	Organic Light-Emitting Diodes (OLEDs). **2022**, 65-106	0
49	Donor□Acceptor Type of Fused-Ring Thermally Activated Delayed Fluorescence Compounds Constructed through an Oxygen-Containing Six-Membered Ring. **2022**, 14, 47971-47980	1
48	Synthesis and Late-Stage Diversification of BN-Embedded Dibenzocorannulenes as Efficient Fluorescence Organic Light-Emitting Diode Emitters..	0
47	Modified Intramolecular-Lock Strategy Enables Efficient Thermally Activated Delayed Fluorescence Emitters for Non-Doped OLEDs.	0
46	Structure□Property Relationship of Triscarbazole-diphenyltriazine-type Blue Thermally Activated Delayed Fluorescent Emitters.	0
45	Multiplying Phosphine-Oxide Orientation to Enable Ultralow-Voltage-Driving Simple White Thermally Activated Delayed Fluorescence Diodes with Power Efficiency over 100□lm□W□1. 2209163	0
44	Modified Intramolecular-Lock Strategy Enables Efficient Thermally Activated Delayed Fluorescence Emitters for Non-Doped OLEDs.	1
43	Dense Local Triplet States and Steric Shielding of Multi-Resonance TADF Emitter Enables High-Performance Deep Blue OLEDs. 2207416	1
42	Achieving 34.3% External Quantum Efficiency for Red Thermally Activated Delayed Fluorescence Organic Light-Emitting Diode by Molecular Isomer Engineering. 2201191	1
41	Precise Functionalization of Multiple Resonance Framework: Constructing Narrowband Organic Electroluminescent Materials with External Quantum Efficiency over 40%. 2205166	1
40	High performance doping-free hybrid WOLED utilizing bipolar TADF material as emitters with an ultra-low efficiency roll-off. **2022**, 134, 113067	0
39	Understanding the emission from dendrimers composed of thermally activated delayed fluorescence-based dendrons and a phosphorescent fac-tris[2-(thiophen-2-yl)-4-(phenyl)quinoline]iridium(iii) core.	0
38	Nanohybrids as a tool to control the dispersion of organic emitters in solution-processed electroluminescent layers.	1

37	Sky-Blue Aggregation-Induced Delayed Fluorescence Luminogens with High Horizontal Dipole Orientation for Efficient Organic Light-Emitting Diodes.	0
36	The Role of Balancing Carrier Transport in Realizing an Efficient Orange-Red Thermally Activated Delayed-Fluorescence Organic Light-Emitting Diode.	0
35	Indirect Control of Donor/Acceptor Interactions for Highly Efficient Space-Confined Thermally Activated Delayed Fluorescence Emitters. 2209708	0
34	Numerical Analysis and Optimization of a Hybrid Layer Structure for Triplet□Triplet Fusion Mechanism in Organic Light-Emitting Diodes. 2200633	0
33	Highly Efficient Blue Thermally Activated Delayed Fluorescence Emitters with a Triphenylamine-Based Macrocyclic Donor. 2202292	0
32	Structurally Regulated Carbazole□Pyridine Derivatives Based on Space-Crowded Theory for Efficient Narrowband Ultraviolet Nondoped Organic Light-Emitting Diodes from the High-Lying Reverse Intersystem Crossing Process.	0
31	Switching the Luminescence between TADF and RTP for Organic D-A-D Emitters: The Role of D-A Connection Modes. 2200725	0
30	Blue Halide Perovskite Materials: Preparation, Progress, and Challenges. 2200689	0
29	Donor Extension on Spiro-Acridine Enables Highly Efficient TADF-OLEDs with Relieved Efficiency Roll-Off. 2211696	0
28	New strategy for developing deep blue TADF materials with narrow emission and CIEy < 0.06 employing host materials as donors.	0
27	Triphenylamine-Functionalized Multiple-Resonance TADF Emitters with Accelerated Reverse Intersystem Crossing and Aggregation-Induced Emission Enhancement for Narrowband OLEDs. 2211893	0
26	Promoting Reverse Intersystem Crossing in Thermally Activated Delayed Fluorescence via the Heavy-Atom Effect. **2023**, 127, 439-449	0
25	A facile method to achieve red thermally activated delayed fluorescence emitters with EQE over 30% via molecular aspect ratio engineering. **2023**, 457, 141074	0
24	Spiral donor-based host materials for highly efficient blue thermally activated delayed fluorescence OLEDs. **2023**, 458, 141416	0
23	Synthesis and characterization of blue light emitters based on dimers of fluorene: Effects of different pendant electron-withdrawing moieties. **2023**, 293, 117285	0
22	Control of Fluorescence of Organic Dyes in the Solid-State by Supramolecular Interactions.	1
21	Role of the Intramolecular-Locking Strategy in the Construction of Organic Thermally Activated Delayed Fluorescence Emitters with Rotation-Restricted Acceptors. 2202610	0
20	Efficient Thermally Activated Delayed Fluorescence Emitter with Regioisomeric Effect for Red/Near-Infrared Organic Light-Emitting Diodes.	0

[-]

19	Constructing an efficient deep-blue TADF emitter by host-guest interactions towards solution-processed OLEDs with narrowband emission.	0
18	Strategy for Modulating Dihedral Angle Distribution for Enhanced Anti-Kasha TADF Behavior. **2023**, 127, 5567-5575	0
17	Organic light-emitting diodes with a single emissive layer of 3,6-di-tert-butyl-carbazolyl-disubstituted trifluoromethyl benzene showing an ultra-broad white electroluminescence spectrum. **2023**, 212, 111133	0
16	Finely-tuned heteroleptic phosphorescent Ir(III) complexes for CIEy□<□0.2-based pure blue organic light-emitting diodes with external quantum efficiencies□>□30%. **2023**, 463, 142493	0
15	D-O-A based organic phosphors for both aggregation-induced electrophosphorescence and host-free sensitization. **2023**, 14,	0
14	Constructing high-efficiency aggregation-induced delayed fluorescence molecules and OLEDs applying C-H□□N hydrogen bond manipulation strategy. **2023**, 215, 111298	0
13	A Tetrahedral Bisacridine Donor Enables Fast Radiative Decay in Thermally Activated Delayed Fluorescence Emitter. **2023**, 62,	0
12	A Tetrahedral Bisacridine Donor Enables Fast Radiative Decay in Thermally Activated Delayed Fluorescence Emitter. **2023**, 135,	0
11	Extending Anisotropy Dynamics of Light-Emitting Dipoles as Necessary Condition Toward Developing Highly-Efficient OLEDs. **2023**, 11,	0
10	Highly Luminescent Aluminum Complex with □Diketone Ligands Exhibiting Near-Unity Photoluminescence Quantum Yield, Thermally Activated Delayed Fluorescence, and Rapid Radiative Decay Rate Properties in Solution-Processed Organic Light-Emitting Devices. **2023**, 96, 183-189	0
9	Unexpected Quasi-Axial Conformer in Thermally Activated Delayed Fluorescence DMAC-TRZ, Pushing Green OLEDs to Blue. 2300910	0
8	Molecularly engineered host materials for high performance inkjet-printed thermally activated delayed fluorescence organic light-emitting diodes. **2023**, 11, 4342-4350	0
7	Lowering Power Consumption for Organic Light-Emitting Diodes Full-Screen Display. **2023**,	0
6	Dibenzo[b,d]furan/thiophene-fused double boron-based multiresonance emitters with narrowband ultrapure green electroluminescence.	0
5	Realizing efficient blue and deep-blue delayed fluorescence materials with record-beating electroluminescence efficiencies of 43.4%. **2023**, 14,	0
4	Tetradentate C?C?N?N Ligand-Containing Gold(III) Complexes with Orange to Deep-Red Thermally Activated Delayed Fluorescence (TADF) and Their Application in Organic Light-Emitting Devices.	0
3	Suppression of Dexter Energy Transfer through Modulating Donor Segments of Thermally Activated Delayed Fluorescence Assistant Dopants.	0
2	Exploring the Influence of Engineering the Linker between the Donor and Acceptor Fragments on Thermally Activated Delayed Fluorescence Characteristics.	0

1	Efficient blue fluorescent OLEDs based on a D-A emitter with the hybridized localized and charge-transfer state.	0