Chuluo Yang

List of Publications by Citations

382 papers	17,661 citations	72 h-index	117 g-index
403 ext. papers	20,868 ext. citations	10.6 avg, IF	7.28 L-index

#	Paper	IF	Citations
382	Organic host materials for phosphorescent organic light-emitting diodes. *Chemical Society Reviews*, **2011**, 40, 2943-70	58.5	983
381	Blue fluorescent emitters: design tactics and applications in organic light-emitting diodes. *Chemical Society Reviews*, **2013**, 42, 4963-76	58.5	643
380	A simple carbazole/oxadiazole hybrid molecule: an excellent bipolar host for green and red phosphorescent OLEDs. *Angewandte Chemie - International Edition*, **2008**, 47, 8104-7	16.4	405
379	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
378	Yellow/orange emissive heavy-metal complexes as phosphors in monochromatic and white organic light-emitting devices. *Chemical Society Reviews*, **2014**, 43, 6439-69	58.5	358
377	Fine-Tuning Energy Levels via Asymmetric End Groups Enables Polymer Solar Cells with Efficiencies over 17%. *Joule*, **2020**, 4, 1236-1247	27.8	237
376	Fine-Tuning of Molecular Packing and Energy Level through Methyl Substitution Enabling Excellent Small Molecule Acceptors for Nonfullerene Polymer Solar Cells with Efficiency up to 12.54. *Advanced Materials*, **2018**, 30, 1706124	24	232
375	Use of two structurally similar small molecular acceptors enabling ternary organic solar cells with high efficiencies and fill factors. *Energy and Environmental Science*, **2018**, 11, 3275-3282	35.4	227
374	Optimized Fibril Network Morphology by Precise Side-Chain Engineering to Achieve High-Performance Bulk-Heterojunction Organic Solar Cells. *Advanced Materials*, **2018**, 30, e1707353	24	226
373	Bipolar Tetraarylsilanes as Universal Hosts for Blue, Green, Orange, and White Electrophosphorescence with High Efficiency and Low Efficiency Roll-Off. *Advanced Functional Materials*, **2011**, 21, 1168-1178	15.6	215
372	Asymmetrical Ladder-Type Donor-Induced Polar Small Molecule Acceptor to Promote Fill Factors Approaching 77% for High-Performance Nonfullerene Polymer Solar Cells. *Advanced Materials*, **2018**, 30, e1800052	24	199
371	Ternary nonfullerene polymer solar cells with efficiency >13.7% by integrating the advantages of the materials and two binary cells. *Energy and Environmental Science*, **2018**, 11, 2134-2141	35.4	193
370	Efficient ternary non-fullerene polymer solar cells with PCE of 11.92% and FF of 76.5%. *Energy and Environmental Science*, **2018**, 11, 841-849	35.4	190
369	A nonfullerene acceptor with a 1000 nm absorption edge enables ternary organic solar cells with improved optical and morphological properties and efficiencies over 15%. *Energy and Environmental Science*, **2019**, 12, 2529-2536	35.4	188
368	A Novel Thiophene-Fused Ending Group Enabling an Excellent Small Molecule Acceptor for High-Performance Fullerene-Free Polymer Solar Cells with 11.8% Efficiency. *Solar Rrl*, **2017**, 1, 1700044	7.1	187
367	An AIEgen-based 3D covalent organic framework for white light-emitting diodes. *Nature Communications*, **2018**, 9, 5234	17.4	182
366	Alloy-like ternary polymer solar cells with over 17.2% efficiency. *Science Bulletin*, **2020**, 65, 538-545	10.6	180

365	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
364	High-efficiency and air stable fullerene-free ternary organic solar cells. *Nano Energy*, **2018**, 45, 177-183	17.1	169
363	A Layer-by-Layer Architecture for Printable Organic Solar Cells Overcoming the Scaling Lag of Module Efficiency. *Joule*, **2020**, 4, 407-419	27.8	159
362	Over 13% Efficiency Ternary Nonfullerene Polymer Solar Cells with Tilted Up Absorption Edge by Incorporating a Medium Bandgap Acceptor. *Advanced Energy Materials*, **2018**, 8, 1801968	21.8	157
361	Dendronized delayed fluorescence emitters for non-doped, solution-processed organic light-emitting diodes with high efficiency and low efficiency roll-off simultaneously: two parallel emissive channels. *Chemical Science*, **2016**, 7, 5441-5447	9.4	154
360	Over 14.5% efficiency and 71.6% fill factor of ternary organic solar cells with 300 nm thick active layers. *Energy and Environmental Science*, **2020**, 13, 958-967	35.4	148
359	Multifunctional Triphenylamine/Oxadiazole Hybrid as Host and Exciton-Blocking Material: High Efficiency Green Phosphorescent OLEDs Using Easily Available and Common Materials. *Advanced Functional Materials*, **2010**, 20, 2923-2929	15.6	148
358	High-Performance Hybrid White Organic Light-Emitting Diodes with Superior Efficiency/Color Rendering Index/Color Stability and Low Efficiency Roll-Off Based on a Blue Thermally Activated Delayed Fluorescent Emitter. *Advanced Functional Materials*, **2016**, 26, 3306-3313	15.6	146
357	De novo design of silicon-bridged molecule towards a bipolar host: all-phosphor white organic light-emitting devices exhibiting high efficiency and low efficiency roll-off. *Advanced Materials*, **2010**, 22, 5370-3	24	145
356	Precisely Controlling the Position of Bromine on the End Group Enables Well-Regular Polymer Acceptors for All-Polymer Solar Cells with Efficiencies over 15. *Advanced Materials*, **2020**, 32, e2005942	24	144
355	A universal layer-by-layer solution-processing approach for efficient non-fullerene organic solar cells. *Energy and Environmental Science*, **2019**, 12, 384-395	35.4	143
354	Creating a thermally activated delayed fluorescence channel in a single polymer system to enhance exciton utilization efficiency for bluish-green electroluminescence. *Chemical Communications*, **2016**, 52, 2292-5	5.8	140
353	Highly efficient deep-blue electrophosphorescence enabled by solution-processed bipolar tetraarylsilane host with both a high triplet energy and a high-lying HOMO level. *Advanced Materials*, **2011**, 23, 4956-9	24	137
352	Adding a Third Component with Reduced Miscibility and Higher LUMO Level Enables Efficient Ternary Organic Solar Cells. *ACS Energy Letters*, **2020**, 5, 2711-2720	20.1	137
351	Naphthothiadiazole-Based Near-Infrared Emitter with a Photoluminescence Quantum Yield of 60% in Neat Film and External Quantum Efficiencies of up to 3.9% in Nondoped OLEDs. *Advanced Functional Materials*, **2017**, 27, 1606384	15.6	136
350	Semitransparent ternary nonfullerene polymer solar cells exhibiting 9.40% efficiency and 24.6% average visible transmittance. *Nano Energy*, **2019**, 55, 424-432	17.1	134
349	Energy level modulation of non-fullerene acceptors enables efficient organic solar cells with small energy loss. *Journal of Materials Chemistry A*, **2018**, 6, 2468-2475	13	133
348	Design Strategy for Solution-Processable Thermally Activated Delayed Fluorescence Emitters and Their Applications in Organic Light-Emitting Diodes. *Advanced Optical Materials*, **2018**, 6, 1800568	8.1	129

347	Multi-carbazole encapsulation as a simple strategy for the construction of solution-processed, non-doped thermally activated delayed fluorescence emitters. *Journal of Materials Chemistry C*, **2016**, 4, 2442-2446	7.1	126
346	Phosphoryl/Sulfonyl-Substituted Iridium Complexes as Blue Phosphorescent Emitters for Single-Layer Blue and White Organic Light-Emitting Diodes by Solution Process. *Chemistry of Materials*, **2012**, 24, 4581-4587	9.6	126
345	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
344	Boosting reverse intersystem crossing by increasing donors in triarylboron/phenoxazine hybrids: TADF emitters for high-performance solution-processed OLEDs. *Journal of Materials Chemistry C*, **2016**, 4, 4402-4407	7.1	120
343	Reduced Energy Loss Enabled by a Chlorinated Thiophene-Fused Ending-Group Small Molecular Acceptor for Efficient Nonfullerene Organic Solar Cells with 13.6% Efficiency. *Advanced Energy Materials*, **2019**, 9, 1900041	21.8	117
342	Molecular design of host materials based on triphenylamine/oxadiazole hybrids for excellent deep-red phosphorescent organic light-emitting diodes. *Journal of Materials Chemistry*, **2010**, 20, 1759		116
341	Simultaneous enhanced efficiency and thermal stability in organic solar cells from a polymer acceptor additive. *Nature Communications*, **2020**, 11, 1218	17.4	111
340	Unexpected Propeller-Like Hexakis(fluoren-2-yl)benzene Cores for Six-Arm Star-Shaped Oligofluorenes: Highly Efficient Deep-Blue Fluorescent Emitters and Good Hole-Transporting Materials. *Advanced Functional Materials*, **2013**, 23, 1781-1788	15.6	110
339	Achieving 14.11% efficiency of ternary polymer solar cells by simultaneously optimizing photon harvesting and exciton distribution. *Journal of Materials Chemistry A*, **2019**, 7, 7843-7851	13	110
338	Low Turn-on Voltage, High-Power-Efficiency, Solution-Processed Deep-Blue Organic Light-Emitting Diodes Based on Starburst Oligofluorenes with Diphenylamine End-Capper to Enhance the HOMO Level. *Chemistry of Materials*, **2014**, 26, 3074-3083	9.6	106
337	Side-Chain Impact on Molecular Orientation of Organic Semiconductor Acceptors: High Performance Nonfullerene Polymer Solar Cells with Thick Active Layer over 400 nm. *Advanced Energy Materials*, **2018**, 8, 1800856	21.8	104
336	De Novo Design of Excited-State Intramolecular Proton Transfer Emitters via a Thermally Activated Delayed Fluorescence Channel. *Journal of the American Chemical Society*, **2018**, 140, 8877-8886	16.4	102
335	Near-Infrared Polymer Light-Emitting Diodes with High Efficiency and Low Efficiency Roll-off by Using Solution-Processed Iridium(III) Phosphors. *Chemistry of Materials*, **2015**, 27, 96-104	9.6	99
334	Altering alkyl-chains branching positions for boosting the performance of small-molecule acceptors for highly efficient nonfullerene organic solar cells. *Science China Chemistry*, **2020**, 63, 361-369	7.9	99
333	Simple CBP isomers with high triplet energies for highly efficient blue electrophosphorescence. *Journal of Materials Chemistry*, **2012**, 22, 2894-2899		97
332	Molecular design to regulate the photophysical properties of multifunctional TADF emitters towards high-performance TADF-based OLEDs with EQEs up to 22.4% and small efficiency roll-offs. *Chemical Science*, **2018**, 9, 1385-1391	9.4	96
331	Optimizing Optoelectronic Properties of Pyrimidine-Based TADF Emitters by Changing the Substituent for Organic Light-Emitting Diodes with External Quantum Efficiency Close to 25 % and Slow Efficiency Roll-Off. *Chemistry - A European Journal*, **2016**, 22, 10860-6	4.8	94
330	Teaching an old acceptor new tricks: rationally employing 2,1,3-benzothiadiazole as input to design a highly efficient red thermally activated delayed fluorescence emitter. *Journal of Materials Chemistry C*, **2017**, 5, 1363-1368	7.1	92

329	In Situ Solid-State Generation of (BN)2 -Pyrenes and Electroluminescent Devices. *Angewandte Chemie - International Edition*, **2015**, 54, 15074-8	16.4	90
328	Asymmetrical Small Molecule Acceptor Enabling Nonfullerene Polymer Solar Cell with Fill Factor Approaching 79%. *ACS Energy Letters*, **2018**, 3, 1760-1768	20.1	90
327	Organic emitter integrating aggregation-induced delayed fluorescence and room-temperature phosphorescence characteristics, and its application in time-resolved luminescence imaging. *Chemical Science*, **2018**, 9, 6150-6155	9.4	90
326	Novel, highly efficient blue-emitting heteroleptic iridium(III) complexes based on fluorinated 1,3,4-oxadiazole: tuning to blue by dithiolate ancillary ligands. *Chemical Communications*, **2007**, 1352-4	5.8	89
325	Achieving a balance between small singlet-triplet energy splitting and high fluorescence radiative rate in a quinoxaline-based orange-red thermally activated delayed fluorescence emitter. *Chemical Communications*, **2016**, 52, 11012-5	5.8	88
324	Unconjugated Side-Chain Engineering Enables Small Molecular Acceptors for Highly Efficient Non-Fullerene Organic Solar Cells: Insights into the Fine-Tuning of Acceptor Properties and Micromorphology. *Advanced Functional Materials*, **2019**, 29, 1902155	15.6	86
323	Triphenylamine Dendronized Iridium(III) Complexes: Robust Synthesis, Highly Efficient Nondoped Orange Electrophosphorescence and the Structure–Property Relationship. *Chemistry of Materials*, **2012**, 24, 174-180	9.6	86
322	Realizing Highly Efficient Solution-Processed Homojunction-Like Sky-Blue OLEDs by Using Thermally Activated Delayed Fluorescent Emitters Featuring an Aggregation-Induced Emission Property. *Journal of Physical Chemistry Letters*, **2018**, 9, 1547-1553	6.4	83
321	Side Group Engineering of Small Molecular Acceptors for High-Performance Fullerene-Free Polymer Solar Cells: Thiophene Being Superior to Selenophene. *Advanced Functional Materials*, **2017**, 27, 1702194	15.6	81
320	Tuning the Photoinduced Electron Transfer in a Zr-MOF: Toward Solid-State Fluorescent Molecular Switch and Turn-On Sensor. *Advanced Materials*, **2018**, 30, e1802329	24	81
319	Precise Exciton Allocation for Highly Efficient White Organic Light-Emitting Diodes with Low Efficiency Roll-Off Based on Blue Thermally Activated Delayed Fluorescent Exciplex Emission. *Advanced Optical Materials*, **2017**, 5, 1700415	8.1	78
318	A Simple Carbazole/Oxadiazole Hybrid Molecule: An Excellent Bipolar Host for Green and Red Phosphorescent OLEDs. *Angewandte Chemie*, **2008**, 120, 8224-8227	3.6	76
317	A Simple Organic Molecule Realizing Simultaneous TADF, RTP, AIE, and Mechanoluminescence: Understanding the Mechanism Behind the Multifunctional Emitter. *Angewandte Chemie - International Edition*, **2019**, 58, 17651-17655	16.4	75
316	Solution-processable highly efficient yellow- and red-emitting phosphorescent organic light emitting devices from a small molecule bipolar host and iridium complexes. *Journal of Materials Chemistry*, **2008**, 18, 4091		75
315	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. *Journal of Materials Chemistry C*, **2017**, 5, 10715-10720	7.1	74
314	Simultaneous dual-colour tracking lipid droplets and lysosomes dynamics using a fluorescent probe. *Chemical Science*, **2019**, 10, 2342-2348	9.4	74
313	Achieving 21% External Quantum Efficiency for Nondoped Solution-Processed Sky-Blue Thermally Activated Delayed Fluorescence OLEDs by Means of Multi-(Donor/Acceptor) Emitter with Through-Space/-Bond Charge Transfer. *Advanced Science*, **2020**, 7, 1902087	13.6	74
312	A Red Thermally Activated Delayed Fluorescence Emitter Simultaneously Having High Photoluminescence Quantum Efficiency and Preferentially Horizontal Emitting Dipole Orientation. *Advanced Functional Materials*, **2020**, 30, 1908839	15.6	73

311	Management of Singlet and Triplet Excitons: A Universal Approach to High-Efficiency All Fluorescent WOLEDs with Reduced Efficiency Roll-Off Using a Conventional Fluorescent Emitter. *Advanced Optical Materials*, **2016**, 4, 1067-1074	8.1	72
310	Thick-Film Organic Solar Cells Achieving over 11% Efficiency and Nearly 70% Fill Factor at Thickness over 400 nm. *Advanced Functional Materials*, **2020**, 30, 1908336	15.6	70
309	Near-Infrared Small Molecule Acceptor Enabled High-Performance Nonfullerene Polymer Solar Cells with Over 13% Efficiency. *Advanced Functional Materials*, **2018**, 28, 1803128	15.6	70
308	Using an organic molecule with low triplet energy as a host in a highly efficient blue electrophosphorescent device. *Angewandte Chemie - International Edition*, **2014**, 53, 2147-51	16.4	69
307	Efficient Solution-Processed Deep-Blue Organic Light-Emitting Diodes Based on Multibranched Oligofluorenes with a Phosphine Oxide Center. *Chemistry of Materials*, **2013**, 25, 3320-3327	9.6	69
306	Stable white electroluminescence from single fluorene-based copolymers: using fluorenone as the green fluorophore and an iridium complex as the red phosphor on the main chain. *Journal of Materials Chemistry*, **2008**, 18, 291-298		69
305	An efficient exciton harvest route for high-performance OLEDs based on aggregation-induced delayed fluorescence. *Chemical Communications*, **2018**, 54, 1379-1382	5.8	66
304	Tuning the saturated red emission: synthesis, electrochemistry and photophysics of 2-arylquinoline based iridium(III) complexes and their application in OLEDs. *Journal of Materials Chemistry*, **2006**, 16, 3332		66
303	Using Ring-Opening Metathesis Polymerization of Norbornene To Construct Thermally Activated Delayed Fluorescence Polymers: High-Efficiency Blue Polymer Light-Emitting Diodes. *Macromolecules*, **2018**, 51, 1598-1604	5.5	64
302	High-Power-Efficiency Blue Electrophosphorescence Enabled by the Synergistic Combination of Phosphine-Oxide-Based Host and Electron-Transporting Materials. *Chemistry of Materials*, **2014**, 26, 1463-1470	9.6	63
301	Controlling charge balance and exciton recombination by bipolar host in single-layer organic light-emitting diodes. *Journal of Applied Physics*, **2010**, 108, 034508	2.5	63
300	High Power Efficiency Yellow Phosphorescent OLEDs by Using New Iridium Complexes with Halogen-Substituted 2-Phenylbenzo[d]thiazole Ligands. *Journal of Physical Chemistry C*, **2013**, 117, 19134-19141	3.8	62
299	Self-Assembly of a Highly Emissive Pure Organic Imine-Based Stack for Electroluminescence and Cell Imaging. *Journal of the American Chemical Society*, **2019**, 141, 4704-4710	16.4	61
298	Suppressing photo-oxidation of non-fullerene acceptors and their blends in organic solar cells by exploring material design and employing friendly stabilizers. *Journal of Materials Chemistry A*, **2019**, 7, 25088-25101	13	61
297	Strategic-tuning of radiative excitons for efficient and stable fluorescent white organic light-emitting diodes. *Nature Communications*, **2019**, 10, 2380	17.4	60
296	Altering the Positions of Chlorine and Bromine Substitution on the End Group Enables High-Performance Acceptor and Efficient Organic Solar Cells. *Advanced Energy Materials*, **2020**, 10, 2002649	21.8	59
295	Efficient deep-blue emitters comprised of an anthracene core and terminal bifunctional groups for nondoped electroluminescence. *Journal of Materials Chemistry*, **2011**, 21, 6409		58
294	Diarylmethylene-bridged triphenylamine derivatives encapsulated with fluorene: very high Tg host materials for efficient blue and green phosphorescent OLEDs. *Journal of Materials Chemistry*, **2010**, 20, 3232		57

293	Isomerization of Perylene Diimide Based Acceptors Enabling High-Performance Nonfullerene Organic Solar Cells with Excellent Fill Factor. *Advanced Science*, **2019**, 6, 1802065	13.6	56
292	Benzo[1,2-b:4,5-b?]dithiophene and Thieno[3,4-c]pyrrole-4,6-dione Based Donor-Acceptor Conjugated Polymers for High Performance Solar Cells by Rational Structure Modulation. *Macromolecules*, **2015**, 48, 2948-2957	5.5	56
291	Designing an asymmetrical isomer to promote the LUMO energy level and molecular packing of a non-fullerene acceptor for polymer solar cells with 12.6% efficiency. *Chemical Science*, **2018**, 9, 8142-8149	9.4	56
290	Highly efficient solution-processed green and red electrophosphorescent devices enabled by small-molecule bipolar host material. *Journal of Materials Chemistry*, **2011**, 21, 9326		56
289	Hydrophilic, Red-Emitting, and Thermally Activated Delayed Fluorescence Emitter for Time-Resolved Luminescence Imaging by Mitochondrion-Induced Aggregation in Living Cells. *Advanced Science*, **2019**, 6, 1801729	13.6	56
288	Designing a Perylene Diimide/Fullerene Hybrid as Effective Electron Transporting Material in Inverted Perovskite Solar Cells with Enhanced Efficiency and Stability. *Angewandte Chemie - International Edition*, **2019**, 58, 8520-8525	16.4	55
287	Synthesis, structure, electrochemistry, photophysics and electroluminescence of 1,3,4-oxadiazole-based ortho-metalated iridium(III) complexes. *Journal of Organometallic Chemistry*, **2006**, 691, 3519-3530	2.3	55
286	Highly Efficient Simple-Structure Blue and All-Phosphor Warm-White Phosphorescent Organic Light-Emitting Diodes Enabled by Wide-Bandgap Tetraarylsilane-Based Functional Materials. *Advanced Functional Materials*, **2014**, 24, 5710-5718	15.6	54
285	Solution-Processed Double-Silicon-Bridged Oxadiazole/Arylamine Hosts for High-Efficiency Blue Electrophosphorescence. *Chemistry of Materials*, **2012**, 24, 3120-3127	9.6	52
284	Halogen-induced internal heavy-atom effect shortening the emissive lifetime and improving the fluorescence efficiency of thermally activated delayed fluorescence emitters. *Journal of Materials Chemistry C*, **2017**, 5, 12204-12210	7.1	51
283	Efficient small-molecule non-fullerene electron transporting materials for high-performance inverted perovskite solar cells. *Journal of Materials Chemistry A*, **2018**, 6, 4443-4448	13	50
282	Subtle Side-Chain Engineering of Random Terpolymers for High-Performance Organic Solar Cells. *Chemistry of Materials*, **2018**, 30, 3294-3300	9.6	50
281	Tetraphenylsilane derivatives spiro-annulated by triphenylamine/carbazole with enhanced HOMO energy levels and glass transition temperatures without lowering triplet energy: host materials for efficient blue phosphorescent OLEDs. *Journal of Materials Chemistry C*, **2013**, 1, 463-469	7.1	50
280	Ternary polymer solar cells with alloyed non-fullerene acceptor exhibiting 12.99% efficiency and 76.03% fill factor. *Nano Energy*, **2019**, 59, 58-65	17.1	50
279	Organic Thermally Activated Delayed Fluorescence Materials for Time-Resolved Luminescence Imaging and Sensing. *Advanced Optical Materials*, **2020**, 8, 1902187	8.1	49
278	Triphenylamine-cored star-shape compounds as non-fullerene acceptor for high-efficiency organic solar cells: Tuning the optoelectronic properties by S/Se-annulated perylene diimide. *Organic Electronics*, **2017**, 41, 166-172	3.5	49
277	Highly efficient single-layer white polymer light-emitting devices employing triphenylamine-based iridium dendritic complexes as orange emissive component. *Journal of Materials Chemistry*, **2012**, 22, 361-366		49
276	Managing Excitons and Charges for High-Performance Fluorescent White Organic Light-Emitting Diodes. *ACS Applied Materials & Interfaces*, **2016**, 8, 28780-28788	9.5	49

275	Improving the performance of phosphorescent polymer light-emitting diodes using morphology-stable carbazole-based iridium complexes. *Journal of Materials Chemistry*, **2007**, 17, 3451		48
274	Efficient Ternary Organic Solar Cells with Two Compatible Non-Fullerene Materials as One Alloyed Acceptor. *Small*, **2018**, 14, e1802983	11	48
273	Deep-red iridium(III) complexes cyclometalated by phenanthridine derivatives for highly efficient solution-processed organic light-emitting diodes. *Journal of Materials Chemistry C*, **2016**, 4, 3492-3498	7.1	47
272	Acceptor plane expansion enhances horizontal orientation of thermally activated delayed fluorescence emitters. *Science Advances*, **2020**, 6,	14.3	47
271	Face-to-Face Orientation of Quasiplanar Donor and Acceptor Enables Highly Efficient Intramolecular Exciplex Fluorescence. *Angewandte Chemie - International Edition*, **2021**, 60, 3994-3998	16.4	46
270	Emitters with a pyridine-3,5-dicarbonitrile core and short delayed fluorescence lifetimes of about 1.5 : orange-red TADF-based OLEDs with very slow efficiency roll-offs at high luminance. *Journal of Materials Chemistry C*, **2018**, 6, 6543-6548	7.1	46
269	Over 15.7% Efficiency of Ternary Organic Solar Cells by Employing Two Compatible Acceptors with Similar LUMO Levels. *Small*, **2020**, 16, e2000441	11	45
268	Saturated Red-Emitting Electrophosphorescent Polymers with Iridium Coordinating to Diketonate Units in the Main Chain. *Macromolecular Rapid Communications*, **2006**, 27, 1926-1931	4.8	45
267	Tailoring Optoelectronic Properties of Phenanthroline-Based Thermally Activated Delayed Fluorescence Emitters through Isomer Engineering. *Advanced Optical Materials*, **2016**, 4, 1558-1566	8.1	45
266	Star-shaped hexakis(9,9-dihexyl-9H-fluoren-2-yl)benzene end-capped with carbazole and diphenylamine units: solution-processable, high Tg hole-transporting materials for organic light-emitting devices. *Journal of Materials Chemistry*, **2012**, 22, 23485		44
265	Highly efficient iridium(III) complexes with diphenylquinoline ligands for organic light-emitting diodes: Synthesis and effect of fluorinated substitutes on electrochemistry, photophysics and electroluminescence. *Journal of Organometallic Chemistry*, **2006**, 691, 4312-4319	2.3	44
264	Highly efficient red iridium(III) complexes cyclometalated by 4-phenylthieno[3,2-c]quinoline ligands for phosphorescent OLEDs with external quantum efficiencies over 20%. *Journal of Materials Chemistry C*, **2017**, 5, 10220-10224	7.1	43
263	Peripheral Decoration of Multi-Resonance Molecules as a Versatile Approach for Simultaneous Long-Wavelength and Narrowband Emission. *Advanced Functional Materials*, **2021**, 31, 2102017	15.6	43
262	Multifunctional Thermally Activated Delayed Fluorescence Emitters and Insight into Multicolor-Mechanochromism Promoted by Weak Intra- and Intermolecular Interactions. *Advanced Optical Materials*, **2019**, 7, 1900727	8.1	42
261	Polymorph-Dependent Thermally Activated Delayed Fluorescence Emitters: Understanding TADF from a Perspective of Aggregation State. *Angewandte Chemie - International Edition*, **2020**, 59, 9972-9976	16.4	42
260	Dithieno[3,2-:2',3'-]pyridin-5(4)-one based D-A type copolymers with wide bandgaps of up to 2.05 eV to achieve solar cell efficiencies of up to 7.33. *Chemical Science*, **2016**, 7, 6167-6175	9.4	41
259	Asymmetric-triazine-cored triads as thermally activated delayed fluorescence emitters for high-efficiency yellow OLEDs with slow efficiency roll-off. *Journal of Materials Chemistry C*, **2016**, 4, 9998-10004	7.1	41
258	Boosting the Efficiency of Near-Infrared Fluorescent OLEDs with an Electroluminescent Peak of Nearly 800 nm by Sensitizer-Based Cascade Energy Transfer. *Advanced Functional Materials*, **2018**, 28, 1706088	15.6	40

257	High-efficiency all-small-molecule organic solar cells based on an organic molecule donor with an asymmetric thieno[2,3-f] benzofuran unit. *Science China Chemistry*, **2020**, 63, 1246-1255	7.9	40
256	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. *Advanced Optical Materials*, **2017**, 5, 1700145	8.1	39
255	A three-dimensional thiophene-annulated perylene bisimide as a fullerene-free acceptor for a high performance polymer solar cell with the highest PCE of 8.28% and a VOC over 1.0 V. *Journal of Materials Chemistry C*, **2018**, 6, 1136-1142	7.1	39
254	Pure Organic Emitter with Simultaneous Thermally Activated Delayed Fluorescence and Room-Temperature Phosphorescence: Thermal-Controlled Triplet Recycling Channels. *Advanced Optical Materials*, **2017**, 5, 1700588	8.1	39
253	High-performance n-type thermoelectric composites of acridones with tethered tertiary amines and carbon nanotubes. *Journal of Materials Chemistry A*, **2018**, 6, 20161-20169	13	39
252	Tuning the twist angle of thermally activated delayed fluorescence molecules via a dendronization strategy: high-efficiency solution-processed non-doped OLEDs. *Journal of Materials Chemistry C*, **2017**, 5, 3480-3487	7.1	38
251	Highly sensitive fluorescence detection of heparin based on aggregation-induced emission of a tetraphenylethene derivative. *Biosensors and Bioelectronics*, **2017**, 90, 245-250	11.8	38
250	Highly Efficient Solution-Processed Deep-Red Organic Light-Emitting Diodes Based on an Exciplex Host Composed of a Hole Transporter and a Bipolar Host. *Journal of Physical Chemistry Letters*, **2017**, 8, 4967-4973	6.4	38
249	Thienobenzene-fused perylene bisimide as a non-fullerene acceptor for organic solar cells with a high open-circuit voltage and power conversion efficiency. *Materials Chemistry Frontiers*, **2017**, 1, 749-756	7.8	38
248	Dithieno[3,2-:2',3'-]pyrrol-Fused Asymmetrical Electron Acceptors: A Study into the Effects of Nitrogen-Functionalization on Reducing Nonradiative Recombination Loss and Dipole Moment on Morphology. *Advanced Science*, **2020**, 7, 1902657	13.6	37
247	Significantly improving the performance of polymer solar cells by the isomeric ending-group based small molecular acceptors: Insight into the isomerization. *Nano Energy*, **2019**, 66, 104146	17.1	36
246	Achieving Balanced Charge Transport and Favorable Blend Morphology in Non-Fullerene Solar Cells via Acceptor End Group Modification. *Chemistry of Materials*, **2019**, 31, 1752-1760	9.6	36
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