

Liang-Sheng Liao

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453
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L-index

#	Paper	IF	Citations
434	High-efficiency tandem organic light-emitting diodes. <i>Applied Physics Letters</i> , 2004 , 84, 167-169	3.4	357
433	Interfacial chemistry of Alq3 and LiF with reactive metals. <i>Journal of Applied Physics</i> , 2001 , 89, 2756-2765	5.5	313
432	High Efficiency Near-Infrared and Semitransparent Non-Fullerene Acceptor Organic Photovoltaic Cells. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17114-17119	16.4	312
431	Controllable Perovskite Crystallization by Water Additive for High-Performance Solar Cells. <i>Advanced Functional Materials</i> , 2015 , 25, 6671-6678	15.6	282
430	Bipolar-shell resurfacing for blue LEDs based on strongly confined perovskite quantum dots. <i>Nature Nanotechnology</i> , 2020 , 15, 668-674	28.7	281
429	A near-infrared non-fullerene electron acceptor for high performance polymer solar cells. <i>Energy and Environmental Science</i> , 2017 , 10, 1610-1620	35.4	238
428	Tandem Organic Light-Emitting Diode using Hexaazatriphenylene Hexacarbonitrile in the Intermediate Connector. <i>Advanced Materials</i> , 2008 , 20, 324-329	24	224
427	One-pot microwave synthesis of water-dispersible, ultraphoto- and pH-stable, and highly fluorescent silicon quantum dots. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14192-5	16.4	216
426	Blue luminescence from Si ⁺ -implanted SiO ₂ films thermally grown on crystalline silicon. <i>Applied Physics Letters</i> , 1996 , 68, 850-852	3.4	214
425	Non-fullerene acceptor with low energy loss and high external quantum efficiency: towards high performance polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5890-5897	13	202
424	High efficiency hybrid PEDOT:PSS/nanostructured silicon Schottky junction solar cells by doping-free rear contact. <i>Energy and Environmental Science</i> , 2015 , 8, 297-302	35.4	196
423	Dopant-Free Spiro-Triphenylamine/Fluorene as Hole-Transporting Material for Perovskite Solar Cells with Enhanced Efficiency and Stability. <i>Advanced Functional Materials</i> , 2016 , 26, 1375-1381	15.6	194
422	Progress of Lead-Free Halide Double Perovskites. <i>Advanced Energy Materials</i> , 2019 , 9, 1803150	21.8	192
421	High Efficiency Pb-In Binary Metal Perovskite Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 6695-703	24	185
420	Highly efficient luminescence from space-confined charge-transfer emitters. <i>Nature Materials</i> , 2020 , 19, 1332-1338	27	182
419	Over 10% EQE Near-Infrared Electroluminescence Based on a Thermally Activated Delayed Fluorescence Emitter. <i>Advanced Functional Materials</i> , 2017 , 27, 1700986	15.6	175
418	Copper Salts Doped Spiro-OMeTAD for High-Performance Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1601156	21.8	172

4 ¹⁷	White-light emitting microtubes of mixed organic charge-transfer complexes. <i>Advanced Materials</i> , 2012 , 24, 5345-51	24	167
4 ¹⁶	Real-Time Observation of Temperature Rise and Thermal Breakdown Processes in Organic LEDs Using an IR Imaging and Analysis System. <i>Advanced Materials</i> , 2000 , 12, 265-269	24	160
4 ¹⁵	Passivated Perovskite Crystallization via g-C3N4 for High-Performance Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1705875	15.6	158
4 ¹⁴	Non-fullerene polymer solar cells based on a selenophene-containing fused-ring acceptor with photovoltaic performance of 8.6%. <i>Energy and Environmental Science</i> , 2016 , 9, 3429-3435	35.4	154
4 ¹³	High-Efficiency Red Organic Light-Emitting Diodes with External Quantum Efficiency Close to 30% Based on a Novel Thermally Activated Delayed Fluorescence Emitter. <i>Advanced Materials</i> , 2019 , 31, e1902368	24	152
4 ¹²	Pure Hydrocarbon Hosts for 100% Exciton Harvesting in Both Phosphorescent and Fluorescent Light-Emitting Devices. <i>Advanced Materials</i> , 2015 , 27, 4213-7	24	149
4 ¹¹	Composition Stoichiometry of CsAgBiBr Films for Highly Efficient Lead-Free Perovskite Solar Cells. <i>Nano Letters</i> , 2019 , 19, 2066-2073	11.5	148
4 ¹⁰	Optimization of Low-Dimensional Components of Quasi-2D Perovskite Films for Deep-Blue Light-Emitting Diodes. <i>Advanced Materials</i> , 2019 , 31, e1904319	24	146
4 ⁰⁹	Controlling Synergistic Oxidation Processes for Efficient and Stable Blue Thermally Activated Delayed Fluorescence Devices. <i>Advanced Materials</i> , 2016 , 28, 7620-5	24	136
4 ⁰⁸	White Organic LED with a Luminous Efficacy Exceeding 100 lm W ⁻¹ without Light Out-Coupling Enhancement Techniques. <i>Advanced Functional Materials</i> , 2017 , 27, 1701314	15.6	134
4 ⁰⁷	Intense blue emission from porous SiC formed on C ⁺ -implanted silicon. <i>Applied Physics Letters</i> , 1995 , 66, 2382-2384	3.4	134
4 ⁰⁶	Orthogonal Molecular Structure for Better Host Material in Blue Phosphorescence and Larger OLED White Lighting Panel. <i>Advanced Functional Materials</i> , 2015 , 25, 645-650	15.6	132
4 ⁰⁵	Interface Modification by Ionic Liquid: A Promising Candidate for Indoor Light Harvesting and Stability Improvement of Planar Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1801509	21.8	128
4 ⁰⁴	Long-lived efficient delayed fluorescence organic light-emitting diodes using n-type hosts. <i>Nature Communications</i> , 2017 , 8, 2250	17.4	120
4 ⁰³	Bulk-quantity GaN nanowires synthesized from hot filament chemical vapor deposition. <i>Chemical Physics Letters</i> , 2000 , 327, 263-270	2.5	117
4 ⁰²	Self-Assembled High Quality CsPbBr Quantum Dot Films toward Highly Efficient Light-Emitting Diodes. <i>ACS Nano</i> , 2018 , 12, 9541-9548	16.7	113
4 ⁰¹	A fused-ring based electron acceptor for efficient non-fullerene polymer solar cells with small HOMO offset. <i>Nano Energy</i> , 2016 , 27, 430-438	17.1	112
4 ⁰⁰	Planar perovskite solar cells with 15.75% power conversion efficiency by cathode and anode interfacial modification. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13533-13539	13	111

399	Induced Crystallization of Perovskites by a Perylene Underlayer for High-Performance Solar Cells. <i>ACS Nano</i> , 2016 , 10, 5479-89	16.7	111
398	Improved hole interfacial layer for planar perovskite solar cells with efficiency exceeding 15%. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 9645-51	9.5	108
397	Graphdiyne-modified cross-linkable fullerene as an efficient electron-transporting layer in organometal halide perovskite solar cells. <i>Nano Energy</i> , 2018 , 43, 47-54	17.1	106
396	Competition between Arene-Perfluoroarene and Charge-Transfer Interactions in Organic Light-Harvesting Systems. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10352-10356	16.4	105
395	Tailored Phase Transformation of CsPbI ₃ Films by Copper(II) Bromide for High-Performance All-Inorganic Perovskite Solar Cells. <i>Nano Letters</i> , 2019 , 19, 5176-5184	11.5	105
394	Thin SiC nanorods and their field emission properties. <i>Chemical Physics Letters</i> , 2000 , 318, 58-62	2.5	105
393	Plasmon resonance enhanced optical absorption in inverted polymer/fullerene solar cells with metal nanoparticle-doped solution-processable TiO ₂ layer. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 2935-42	9.5	103
392	Chlorine Vacancy Passivation in Mixed Halide Perovskite Quantum Dots by Organic Pseudohalides Enables Efficient Rec. 2020 Blue Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2020 , 5, 793-798	20.1	100
391	Selective growth of dual-color-emitting heterogeneous microdumbbells composed of organic charge-transfer complexes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3744-7	16.4	100
390	The Design of Fused Amine/Carbonyl System for Efficient Thermally Activated Delayed Fluorescence: Novel Multiple Resonance Core and Electron Acceptor. <i>Advanced Optical Materials</i> , 2019 , 7, 1801536	8.1	97
389	A room-temperature CuAlO ₂ hole interfacial layer for efficient and stable planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1326-1335	13	96
388	Crystalline Liquid-like Behavior: Surface-Induced Secondary Grain Growth of Photovoltaic Perovskite Thin Film. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13948-13953	16.4	96
387	Heterojunction with Organic Thin Layers on Silicon for Record Efficiency Hybrid Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1300923	21.8	93
386	Overcoming the energy gap law in near-infrared OLEDs by exciton-vibration decoupling. <i>Nature Photonics</i> , 2020 , 14, 570-577	33.9	92
385	A solution-processed bathocuproine cathode interfacial layer for high-performance bromine-iodine perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 26653-8	3.6	89
384	Perovskite Grains Embraced in a Soft Fullerene Network Make Highly Efficient Flexible Solar Cells with Superior Mechanical Stability. <i>Advanced Materials</i> , 2019 , 31, e1901519	24	88
383	Highly efficient phosphorescent organic light-emitting diodes using a homoleptic iridium(III) complex as a sky-blue dopant. <i>Organic Electronics</i> , 2013 , 14, 2596-2601	3.5	86
382	Tandem Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2016 , 28, 10381-10408	24	86

381	Pb-Sn-Cu Ternary Organometallic Halide Perovskite Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1800258	24	82
380	Circularly Polarized Thermally Activated Delayed Fluorescence Emitters in Through-Space Charge Transfer on Asymmetric Spiro Skeletons. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17756-17765	16.4	81
379	General Mild Reaction Creates Highly Luminescent Organic-Ligand-Lacking Halide Perovskite Nanocrystals for Efficient Light-Emitting Diodes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 15423-15432	16.4	79
378	Sputter deposition of cathodes in organic light emitting diodes. <i>Journal of Applied Physics</i> , 1999 , 86, 4607-4612	7	78
377	Highly Efficient Deep-Blue Electroluminescence from a Charge-Transfer Emitter with Stable Donor Skeleton. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7331-7338	9.5	77
376	Highly Efficient Thermally Activated Delayed Fluorescence via an Unconjugated Donor-Acceptor System Realizing EQE of Over 30. <i>Advanced Materials</i> , 2020 , 32, e2003885	24	76
375	Tin Halide Perovskites: Progress and Challenges. <i>Advanced Energy Materials</i> , 2020 , 10, 1902584	21.8	76
374	Delayed Fluorescence Emitter Enables Near 17% Efficiency Ternary Organic Solar Cells with Enhanced Storage Stability and Reduced Recombination Energy Loss. <i>Advanced Functional Materials</i> , 2020 , 30, 1909837	15.6	75
373	Ion-beam-induced surface damages on tris-(8-hydroxyquinoline) aluminum. <i>Applied Physics Letters</i> , 1999 , 75, 1619-1621	3.4	75
372	Thermally Activated Delayed Fluorescence Material as Host with Novel Spiro-Based Skeleton for High Power Efficiency and Low Roll-Off Blue and White Phosphorescent Devices. <i>Advanced Functional Materials</i> , 2016 , 26, 7929-7936	15.6	74
371	Large-Scale Green Synthesis of Fluorescent Carbon Nanodots and Their Use in Optics Applications. <i>Advanced Optical Materials</i> , 2015 , 3, 103-111	8.1	74
370	Enhanced hole injection in a bilayer vacuum-deposited organic light-emitting device using a p-type doped silicon anode. <i>Applied Physics Letters</i> , 1999 , 74, 609-611	3.4	74
369	Solution-Processed Extremely Efficient Multicolor Perovskite Light-Emitting Diodes Utilizing Doped Electron Transport Layer. <i>Advanced Functional Materials</i> , 2017 , 27, 1606874	15.6	73
368	Hierarchical self-assembly of organic heterostructure nanowires. <i>Nature Communications</i> , 2019 , 10, 3839	17.4	73
367	2D Organic Photonics: An Asymmetric Optical Waveguide in Self-Assembled Halogen-Bonded Cocrystals. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11300-11304	16.4	72
366	Design and Synthesis of Pyrimidine-Based Iridium(III) Complexes with Horizontal Orientation for Orange and White Phosphorescent OLEDs. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11007-14	9.5	68
365	Electronic structure of silicon nanowires: A photoemission and x-ray absorption study. <i>Physical Review B</i> , 2000 , 61, 8298-8305	3.3	68
364	C1-Linked Spirobifluorene Dimers: Pure Hydrocarbon Hosts for High-Performance Blue Phosphorescent OLEDs. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 3848-3853	16.4	68

363	A simple method for fabricating p-n junction photocatalyst CuFe ₂ O ₄ /Bi ₄ Ti ₃ O ₁₂ and its photocatalytic activity. <i>Materials Chemistry and Physics</i> , 2014 , 143, 952-962	4.4	66
362	Electronic structure and energy band gap of poly (9,9-dioctylfluorene) investigated by photoelectron spectroscopy. <i>Applied Physics Letters</i> , 2000 , 76, 3582-3584	3.4	66
361	High-efficiency organic light-emitting diodes with exciplex hosts. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 11329-11360	7.1	65
360	Inverted planar NH ₂ CH=NH ₂ PbI ₃ perovskite solar cells with 13.56% efficiency via low temperature processing. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 19745-50	3.6	65
359	Polarized Ferroelectric Polymers for High-Performance Perovskite Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1902222	24	64
358	Doped Copper Phthalocyanine via an Aqueous Solution Process for Normal and Inverted Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1701688	21.8	64
357	Enhanced Light Utilization in Semitransparent Organic Photovoltaics Using an Optical Outcoupling Architecture. <i>Advanced Materials</i> , 2019 , 31, e1903173	24	64
356	Synergistic Effect of Dual Ligands on Stable Blue Quasi-2D Perovskite Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2020 , 30, 1908339	15.6	64
355	Enhanced crystallization and stability of perovskites by a cross-linkable fullerene for high-performance solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15088-15094	13	62
354	Highly efficient single-layer organic light-emitting devices based on a bipolar pyrazine/carbazole hybrid host material. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 2488-2495	7.1	61
353	Aqueous solution-processed MoO ₃ as an effective interfacial layer in polymer/fullerene based organic solar cells. <i>Organic Electronics</i> , 2013 , 14, 657-664	3.5	61
352	Bipolar host materials for high efficiency phosphorescent organic light emitting diodes: tuning the HOMO/LUMO levels without reducing the triplet energy in a linear system. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 8177	7.1	61
351	Charge-Transfer Emission of Mixed Organic Cocrystal Microtubes over the Whole Composition Range. <i>Chemistry of Materials</i> , 2015 , 27, 1157-1163	9.6	59
350	All-Inorganic Quantum-Dot LEDs Based on a Phase-Stabilized CsPbI ₃ Perovskite. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16164-16170	16.4	59
349	D _{3h} structured porphyrins for efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 10008	13	58
348	Vacuum-evaporated all-inorganic cesium lead bromine perovskites for high-performance light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 8144-8149	7.1	58
347	Highly luminescent water-dispersible silicon nanowires for long-term immunofluorescent cellular imaging. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3080-3	16.4	56
346	Doped Charge-Transporting Layers in Planar Perovskite Solar Cells. <i>Advanced Optical Materials</i> , 2018 , 6, 1800276	8.1	56

345	Tilted Spiro-Type Thermally Activated Delayed Fluorescence Host for 100% Exciton Harvesting in Red Phosphorescent Electronics with Ultralow Doping Ratio. <i>Advanced Functional Materials</i> , 2018 , 28, 1706228	15.6	54
344	Blue-, green-, and red-light emission from Si ⁺ -implanted thermal SiO ₂ films on crystalline silicon. <i>Journal of Luminescence</i> , 1996 , 68, 199-204	3.8	53
343	Small Molecule-Polymer Composite Hole-Transporting Layer for Highly Efficient and Stable Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 13240-13246	9.5	52
342	Clean surface transfer of graphene films via an effective sandwich method for organic light-emitting diode applications. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 201-207	7.1	52
341	A novel intermediate connector with improved charge generation and separation for large-area tandem white organic lighting devices. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 10403-10408	7.1	51
340	N-Type Doping of Fullerenes for Planar Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2018 , 3, 875-882	20.1	50
339	Host to Guest Energy Transfer Mechanism in Phosphorescent and Fluorescent Organic Light-Emitting Devices Utilizing Exciplex-Forming Hosts. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 24006-24012	3.8	50
338	design of D-πA molecules as universal hosts for monochrome and white phosphorescent organic light-emitting diodes. <i>Chemical Science</i> , 2018 , 9, 4062-4070	9.4	49
337	Hole-Transporting Materials Incorporating Carbazole into Spiro-Core for Highly Efficient Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 29, 1807094	15.6	49
336	Highly Simplified Tandem Organic Light-Emitting Devices Incorporating a Green Phosphorescence Ultrathin Emitter within a Novel Interface Exciplex for High Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 10955-10962	9.5	48
335	Indoor Thin-Film Photovoltaics: Progress and Challenges. <i>Advanced Energy Materials</i> , 2020 , 10, 2000641	21.8	48
334	Origin of enhanced electrical and conducting properties in pentacene films doped by molybdenum trioxide. <i>Organic Electronics</i> , 2013 , 14, 2698-2704	3.5	48
333	Comparative studies on the inorganic and organic p-type dopants in organic light-emitting diodes with enhanced hole injection. <i>Applied Physics Letters</i> , 2013 , 102, 153301	3.4	48
332	Emissive osmium(II) complexes with tetradentate bis(pyridylpyrazolate) chelates. <i>Inorganic Chemistry</i> , 2013 , 52, 5867-75	5.1	47
331	Asymmetric design of bipolar host materials with novel 1,2,4-oxadiazole unit in blue phosphorescent device. <i>Organic Letters</i> , 2014 , 16, 1622-5	6.2	46
330	Spiro-annulated triarylamine-based hosts incorporating dibenzothiophene for highly efficient single-emitting layer white phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 6575	7.1	46
329	Recent advances in electron acceptors with ladder-type backbone for organic solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17256-17287	13	45
328	A simple systematic design of phenylcarbazole derivatives for host materials to high-efficiency phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 3967	7.1	45

327	Chelating-agent-assisted control of CsPbBr quantum well growth enables stable blue perovskite emitters. <i>Nature Communications</i> , 2020 , 11, 3674	17.4	45
326	Polymer as an Additive in the Emitting Layer for High-Performance Quantum Dot Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20239-20246	9.5	43
325	Highly Efficient Blue Phosphorescent Organic Light-Emitting Diodes Employing a Host Material with Small Bandgap. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16186-91	9.5	43
324	Control of conjugation degree via position engineering to highly efficient phosphorescent host materials. <i>Organic Letters</i> , 2014 , 16, 3748-51	6.2	43
323	Effect of deposition rate on the morphology, chemistry and electroluminescence of tris-(8-hydroxyquinoline) aluminum films. <i>Chemical Physics Letters</i> , 2000 , 319, 418-422	2.5	43
322	meta-Linked spirobifluorene/phosphine oxide hybrids as host materials for deep blue phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2013 , 14, 1924-1930	3.5	42
321	Isomeric Effects of Solution Processed Ladder-Type Non-Fullerene Electron Acceptors. <i>Solar Rrl</i> , 2017 , 1, 1700107	7.1	41
320	Bubble formation in organic light-emitting diodes. <i>Journal of Applied Physics</i> , 2000 , 88, 2386-2390	2.5	41
319	Through Space Charge Transfer for Efficient Sky-Blue Thermally Activated Delayed Fluorescence (TADF) Emitter with Unconjugated Connection. <i>Advanced Optical Materials</i> , 2020 , 8, 1901150	8.1	41
318	Donor-Acceptor Molecules for Green Thermally Activated Delayed Fluorescence by Spatially Approaching Spiro Conformation. <i>Organic Letters</i> , 2017 , 19, 3155-3158	6.2	40
317	Near-Infrared Organic Single-Crystal Nanolaser Arrays Activated by Excited-State Intramolecular Proton Transfer. <i>Matter</i> , 2020 , 2, 1233-1243	12.7	40
316	High-efficiency quantum dot light-emitting diodes employing lithium salt doped poly(9-vinylcarbazole) as a hole-transporting layer. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 5372-5377	7.1	39
315	Highly Simplified Reddish Orange Phosphorescent Organic Light-Emitting Diodes Incorporating a Novel Carrier- and Exciton-Confining Spiro-Exciplex-Forming Host for Reduced Efficiency Roll-off. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 2701-2710	9.5	39
314	Deep-Red/Near-Infrared Electroluminescence from Single-Component Charge-Transfer Complex via Thermally Activated Delayed Fluorescence Channel. <i>Advanced Functional Materials</i> , 2019 , 29, 1903112	15.6	39
313	De Novo Design of Boron-Based Host Materials for Highly Efficient Blue and White Phosphorescent OLEDs with Low Efficiency Roll-Off. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20230-6	9.5	38
312	Lithium hydride doped intermediate connector for high-efficiency and long-term stable tandem organic light-emitting diodes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18228-32	9.5	38
311	Aqueous solution-processed GeO ₂ : an anode interfacial layer for high performance and air-stable organic solar cells. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 10866-73	9.5	38
310	Microstructure and field-emission characteristics of boron-doped Si nanoparticle chains. <i>Applied Physics Letters</i> , 2001 , 79, 1673-1675	3.4	38

309	Visible electroluminescence from Si ⁺ -implanted SiO ₂ films thermally grown on crystalline Si. <i>Solid State Communications</i> , 1996 , 97, 1039-1042	1.6	38
308	White-Emissive Self-Assembled Organic Microcrystals. <i>Small</i> , 2017 , 13, 1604110	11	37
307	Flower-like MoS ₂ nanocrystals: a powerful sorbent of Li ⁺ in the Spiro-OMeTAD layer for highly efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3655-3663	13	37
306	The application of single-layer graphene modified with solution-processed TiO _x and PEDOT:PSS as a transparent conductive anode in organic light-emitting diodes. <i>Organic Electronics</i> , 2013 , 14, 3348-3354	2.5	37
305	An effective host material with thermally activated delayed fluorescence formed by confined conjugation for red phosphorescent organic light-emitting diodes. <i>Chemical Communications</i> , 2016 , 52, 8149-51	5.8	36
304	High-Efficiency White Organic Light-Emitting Diodes Integrating Gradient Exciplex Allocation System and Novel D-Spiro-A Materials. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29840-29847	9.5	36
303	Rational Design of Dibenzothiophene-Based Host Materials for PHOLEDs. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 2375-2384	3.8	36
302	Alleviating Efficiency Roll-Off of Hybrid Single-Emitting Layer WOLED Utilizing Bipolar TADF Material as Host and Emitter. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2197-2204	9.5	36
301	High-Quality White Organic Light-Emitting Diodes Composed of Binary Emitters with Color Rendering Index Exceeding 80 by Utilizing Color Remedy Strategy. <i>Advanced Functional Materials</i> , 2019 , 29, 1807541	15.6	35
300	Origin of Enhanced Hole Injection in Organic Light-Emitting Diodes with an Electron-Acceptor Doping Layer: p-Type Doping or Interfacial Diffusion?. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11965-71	9.5	35
299	Evolution of pure hydrocarbon hosts: simpler structure, higher performance and universal application in RGB phosphorescent organic light-emitting diodes. <i>Chemical Science</i> , 2020 , 11, 4887-4894	9.4	35
298	Novel dibenzothiophene based host materials incorporating spirobifluorene for high-efficiency white phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2013 , 14, 902-908	3.5	35
297	Multi-Layer π -Stacked Molecules as Efficient Thermally Activated Delayed Fluorescence Emitters. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5213-5219	16.4	35
296	Tunable Emission Color and Morphology of Organic Microcrystals by a μ Crystal Approach. <i>Advanced Optical Materials</i> , 2018 , 6, 1701300	8.1	34
295	New dibenzofuran/spirobifluorene hybrids as thermally stable host materials for efficient phosphorescent organic light-emitting diodes with low efficiency roll-off. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 14224-8	3.6	34
294	Enhanced hole injection in phosphorescent organic light-emitting diodes by thermally evaporating a thin indium trichloride layer. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 5211-6	9.5	34
293	Intramolecular-Locked High Efficiency Ultrapure Violet-Blue (CIE-y). <i>Advanced Functional Materials</i> , 2021 , 31, 2009488	15.6	34
292	Recent Advances in 1D Organic Solid-State Lasers. <i>Advanced Functional Materials</i> , 2019 , 29, 1902981	15.6	33

291	2D Organic Photonics: An Asymmetric Optical Waveguide in Self-Assembled Halogen-Bonded Cocrystals. <i>Angewandte Chemie</i> , 2018 , 130, 11470-11474	3.6	33
290	Synthesis of new bipolar host materials based on 1,2,4-oxadiazole for blue phosphorescent OLEDs. <i>Dyes and Pigments</i> , 2014 , 101, 142-149	4.6	33
289	Mechanistic Investigation of Improved Syntheses of Iridium(III)-Based OLED Phosphors. <i>Organometallics</i> , 2012 , 31, 4349-4355	3.8	33
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