Xiao-Hong Zhang

List of Publications by Year in Descending Order

481 papers	18,778 citations	73 h-index	113 g-index
506 ext. papers	21,763 ext. citations	8.9 avg, IF	7 L-index

#	Paper	IF	Citations
481	Thermally activated delayed fluorescence exciplexes in organic light-emitting diodes **2022**, 353-426		1
480	Scalable Growth of Organic Single-Crystal Films via Orientation Filter Funnel for High-Performance Transistors with Excellent Uniformity.. *Advanced Materials*, **2022**, e2109818	24	6
479	Blocking Energy-Loss Pathways for Efficient All-Fluorescent Solution-processed Organic Light-emitting Diodes by Introducing Polymer Additive. *Journal of Physics: Conference Series*, **2022**, 2174, 012030	0.3	
478	Wafer-Scale Fabrication of Silicon Nanocones via Controlling Catalyst Evolution in All-Wet Metal-Assisted Chemical Etching.. *ACS Omega*, **2022**, 7, 2234-2243	3.9	2
477	A facile strategy for enhancing reverse intersystem crossing of red thermally activated delayed fluorescence emitters. *Chemical Engineering Journal*, **2022**, 433, 134423	14.7	1
476	Using fullerene fragments as acceptors to construct thermally activated delayed fluorescence emitters for high-efficiency organic light-emitting diodes. *Chemical Engineering Journal*, **2022**, 435, 134731	14.7	2
475	Efficient and stable single-emitting-layer white organic light-emitting diodes by employing all thermally activated delayed fluorescence emitters. *Organic Electronics*, **2022**, 101, 106415	3.5	1
474	Layered double hydroxides-silver-chlorin e6 nanocomposite for photo-chemo combination therapy to efficiently combat both Gram-positive and Gram-negative bacteria. *Materials Today Communications*, **2022**, 30, 103101	2.5	
473	Recent progress in thermally activated delayed fluorescence emitters for nondoped organic light-emitting diodes.. *Chemical Science*, **2022**, 13, 3625-3651	9.4	15
472	A perspective on ultralong silicon nanowires for flexible sensors. *Applied Physics Letters*, **2022**, 120, 130501	3.4	0
471	Effective Design Strategy of Small Bipolar Molecules through Fused Conjugation toward 2.5 V Based Redox Flow Batteries.. *ACS Energy Letters*, **2022**, 7, 1274-1283	20.1	2
470	Fully Solution-Printed Photosynaptic Transistor Array with Ultralow Energy Consumption for Artificial Vision Neural Network.. *Advanced Materials*, **2022**, e2200380	24	9
469	Thermally Activated Delayed Fluorescent Dendrimers that Underpin High-efficiency Host-Free Solution-Processed Organic Light Emitting Diodes.. *Advanced Materials*, **2022**, e2110344	24	7
468	Controlling the conjugation extension inside acceptors for enhancing reverse intersystem crossing of red thermally activated delayed fluorescence emitters. *Chemical Engineering Journal*, **2022**, 440, 135775	14.7	1
467	Optimizing Intermolecular Interactions and Energy Level Alignments of Red TADF Emitters for High-Performance Organic Light-Emitting Diodes.. *Small*, **2022**, e2201548	11	4
466	Progress and Future Prospects of Wide-Bandgap Metal-Compound-Based Passivating Contacts for Silicon Solar Cells.. *Advanced Materials*, **2022**, e2200344	24	5
465	Phonon resonant effect in silicon membranes with different crystallographic orientations. *International Journal of Heat and Mass Transfer*, **2021**, 183, 122144	4.9	0

464	Facile synthesis of near-infrared bodipy by donor engineering for tumor targeted dual-modal imaging. *Journal of Materials Chemistry B*, **2021**, 9, 9308-9315	7.3	1
463	Ru-Catalyzed Reverse Water Gas Shift Reaction with Near-Unity Selectivity and Superior Stability. **2021**, 3, 1652-1659		4
462	Multicore Ferrocene Derivative as a Highly Soluble Cathode Material for Nonaqueous Redox Flow Batteries. *ACS Applied Energy Materials*, **2021**, 4, 855-861	6.1	2
461	Patterning Liquid Crystalline Organic Semiconductors via Inkjet Printing for High-Performance Transistor Arrays and Circuits. *Advanced Functional Materials*, **2021**, 31, 2100237	15.6	22
460	A core-shell catalyst design boosts the performance of photothermal reverse water gas shift catalysis. *Science China Materials*, **2021**, 64, 2212-2220	7.1	6
459	Thermally Activated Delayed Fluorescence Warm White Organic Light Emitting Devices with External Quantum Efficiencies Over 30%. *Advanced Functional Materials*, **2021**, 31, 2101647	15.6	17
458	Compact Biomimetic Hair Sensors Based on Single Silicon Nanowires for Ultrafast and Highly-Sensitive Airflow Detection. *Nano Letters*, **2021**, 21, 4684-4691	11.5	7
457	High-Performance Nondoped Organic Light-Emitting Diode Based on a Thermally Activated Delayed Fluorescence Emitter with 1D Intermolecular Hydrogen Bonding Interactions. *Advanced Optical Materials*, **2021**, 9, 2100461	8.1	8
456	Nonconjugated Triptycene-Spaced Donor-Acceptor-Type Emitters Showing Thermally Activated Delayed Fluorescence via Both Intra- and Intermolecular Charge-Transfer Transitions. *ACS Applied Materials & Interfaces*, **2021**, 13, 25193-25201	9.5	6
455	Single-Crystalline Silicon Frameworks: A New Platform for Transparent Flexible Optoelectronics. *Advanced Materials*, **2021**, 33, e2008171	24	4
454	Greenhouse-inspired supra-photothermal CO2 catalysis. *Nature Energy*, **2021**, 6, 807-814	62.3	36
453	Pyridine-substituted triazine as an acceptor for thermally activated delayed fluorescence emitters showing high efficiency and low roll-off in organic light-emitting diodes. *Materials Today Energy*, **2021**, 20, 100581	7	3
452	Managing Locally Excited and Charge-Transfer Triplet States to Facilitate Up-Conversion in Red TADF Emitters That Are Available for Both Vacuum- and Solution-Processes. *Angewandte Chemie - International Edition*, **2021**, 60, 2478-2484	16.4	49
451	Carrier-free nanodrugs for safe and effective cancer treatment. *Journal of Controlled Release*, **2021**, 329, 805-832	11.7	27
450	Novel triazine derivatives with deep LUMO energy levels as the electron-accepting components of exciplexes. *Journal of Materials Chemistry C*, **2021**, 9, 939-946	7.1	3
449	Water-Surface Drag Coating: A New Route Toward High-Quality Conjugated Small-Molecule Thin Films with Enhanced Charge Transport Properties. *Advanced Materials*, **2021**, 33, e2005915	24	23
448	Managing Locally Excited and Charge-Transfer Triplet States to Facilitate Up-Conversion in Red TADF Emitters That Are Available for Both Vacuum- and Solution-Processes. *Angewandte Chemie*, **2021**, 133, 2508-2514	3.6	12
447	All-Earth-Abundant Photothermal Silicon Platform for CO2 Catalysis with Nearly 100% Sunlight Harvesting Ability. *Solar Rrl*, **2021**, 5, 2000387	7.1	8

446	Solution-Processable Carbon and Graphene Quantum Dots Photodetectors. *Lecture Notes in Nanoscale Science and Technology*, **2021**, 157-214	0.3	
445	Hydrogen-Bond-Assisted Exciplex Emitters Realizing Improved Efficiencies and Stabilities in Organic Light Emitting Diodes. *Advanced Functional Materials*, **2021**, 31, 2010100	15.6	8
444	Precise patterning of single crystal arrays of organic semiconductors by a patterned microchannel dip-coating method for organic field-effect transistors. *Journal of Materials Chemistry C*, **2021**, 9, 5174-5181	7.1	1
443	Improving Ideality of P-Type Organic Field-Effect Transistors via Preventing Undesired Minority Carrier Injection. *Advanced Functional Materials*, **2021**, 31, 2100202	15.6	12
442	Synergistic impeding of phonon transport through resonances and screw dislocations. *Physical Review B*, **2021**, 103,	3.3	8
441	Niobium and Titanium Carbides (MXenes) as Superior Photothermal Supports for CO Photocatalysis. *ACS Nano*, **2021**, 15, 5696-5705	16.7	44
440	Solution-Doped Polysilicon Passivating Contacts for Silicon Solar Cells. *ACS Applied Materials & Interfaces*, **2021**, 13, 8455-8460	9.5	7
439	Approaching Efficient and Narrow RGB Electroluminescence from D-A-Type TADF Emitters Containing an Identical Multiple Resonance Backbone as the Acceptor. *ACS Applied Materials & Interfaces*, **2021**, 13, 36089-36097	9.5	17
438	Anthraquinone-based anode material for aqueous redox flow batteries operating in nondemanding atmosphere. *Journal of Power Sources*, **2021**, 501, 229984	8.9	7
437	Metal-catalyzed chemical etching using DIO3 as a hole injection agent for efficient submicron-textured multicrystalline silicon solar cells. *Solar Energy Materials and Solar Cells*, **2021**, 227, 111104	6.4	3
436	Construction of Single-Atom Platinum Catalysts Enabled by CsPbBr Nanocrystals. *ACS Nano*, **2021**,	16.7	13
435	Conjugated Polymers: Optical Toolbox for Bioimaging and Cancer Therapy. *Small*, **2021**, 17, e2103127	11	11
434	High-performance red and white organic light-emitting diodes based on a novel red thermally activated delayed fluorescence emitter in an exciplex matrix. *Materials Today Energy*, **2021**, 21, 100818	7	1
433	Characterizing the Conformational Distribution in an Amorphous Film of an Organic Emitter and Its Application in a "Self-Doping" Organic Light-Emitting Diode. *Angewandte Chemie - International Edition*, **2021**, 60, 25878-25883	16.4	11
432	Selectively electroless deposited Ag nanoparticles embedded in the dielectric layer to tune the rear color of bifacial solar cells. *Solar Energy Materials and Solar Cells*, **2021**, 232, 111358	6.4	1
431	Self-crosslinked herringbone dihydrophenazine derivatives for high performance organic batteries. *Composites Communications*, **2021**, 28, 100947	6.7	3
430	Combining histone deacetylase inhibitors (HDACis) with other therapies for cancer therapy. *European Journal of Medicinal Chemistry*, **2021**, 226, 113825	6.8	2
429	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. *Organic Electronics*, **2021**, 99, 106312	3.5	0

428	All-in-One, Solid-State, Solar-Powered Electrochemical Cell. *ACS Applied Materials & Interfaces*, **2020**, 12, 57182-57189	9.5	4
427	Fast deposition of an ultrathin, highly crystalline organic semiconductor film for high-performance transistors. *Nanoscale Horizons*, **2020**, 5, 1096-1105	10.8	14
426	Cobalt Plasmonic Superstructures Enable Almost 100% Broadband Photon Efficient CO Photocatalysis. *Advanced Materials*, **2020**, 32, e2000014	24	55
425	The design of an extended multiple resonance TADF emitter based on a polycyclic amine/carbonyl system. *Materials Chemistry Frontiers*, **2020**, 4, 2018-2022	7.8	37
424	Molecular deposition condition dependent structural and charge transport properties of CBP films. *Computational Materials Science*, **2020**, 182, 109785	3.2	3
423	Theoretical studies on full-color thermally activated delayed fluorescence molecules. *Journal of Materials Chemistry C*, **2020**, 8, 5839-5846	7.1	4
422	Ultraminiaturized Stretchable Strain Sensors Based on Single Silicon Nanowires for Imperceptible Electronic Skins. *Nano Letters*, **2020**, 20, 2478-2485	11.5	34
421	Chiral thermally activated delayed fluorescence emitters with dual conformations based on a pair of enantiomeric donors containing asymmetric carbons. *Dyes and Pigments*, **2020**, 178, 108336	4.6	7
420	Forming submicron in micron texture on the diamond-wire-sawn mc-Si wafer by introducing artificial defects. *Progress in Photovoltaics: Research and Applications*, **2020**, 28, 788-797	6.8	8
419	A Microchannel-Confined Crystallization Strategy Enables Blade Coating of Perovskite Single Crystal Arrays for Device Integration. *Advanced Materials*, **2020**, 32, e1908340	24	39
418	A Highly Conductive Titanium Oxynitride Electron-Selective Contact for Efficient Photovoltaic Devices. *Advanced Materials*, **2020**, 32, e2002608	24	22
417	Forcing dimethylacridine crooking to improve the efficiency of orange-red thermally activated delayed fluorescent emitters. *Journal of Materials Chemistry C*, **2020**, 8, 10416-10421	7.1	2
416	Meniscus-guided coating of organic crystalline thin films for high-performance organic field-effect transistors. *Journal of Materials Chemistry C*, **2020**, 8, 9133-9146	7.1	24
415	Controlled 2D growth of organic semiconductor crystals by suppressing □offee-ring□effect. *Nano Research*, **2020**, 13, 2478-2484	10	9
414	Flame-retarding battery cathode materials based on reversible multi-electron redox chemistry of phenothiazine-based polymer. *Journal of Energy Chemistry*, **2020**, 47, 256-262	12	9
413	Dilution of the Electron Density in the □Conjugated Skeleton of Organic Cathode Materials Improves the Discharge Voltage. *ChemSusChem*, **2020**, 13, 2264-2270	8.3	15
412	Single vs double atom catalyst for N2 activation in nitrogen reduction reaction: A DFT perspective. *EcoMat*, **2020**, 2, e12014	9.4	43
411	Tailoring the Voltage Gap of Organic Battery Materials Based on a Multi-Electron Redox Chemistry. *ChemElectroChem*, **2020**, 7, 1781-1788	4.3	5

410	Thermal transport in amorphous small organic materials: a mechanistic study. *Physical Chemistry Chemical Physics*, **2020**, 22, 3058-3065	3.6	8
409	Roles of interfaces in the ideality of organic field-effect transistors. *Nanoscale Horizons*, **2020**, 5, 454-472	10.8	18
408	Theoretical Studies of Bipolar Transport in CBTBT-FTCNQ Donor-Acceptor Cocrystals. *Journal of Physical Chemistry Letters*, **2020**, 11, 359-365	6.4	10
407	Surficial Marangoni Flow-Induced Growth of Ultrathin 2D Molecular Crystals on Target Substrates. *Advanced Materials Interfaces*, **2020**, 7, 1901753	4.6	7
406	High-Performance Nondoped Blue Delayed Fluorescence Organic Light-Emitting Diodes Featuring Low Driving Voltage and High Brightness. *Advanced Science*, **2020**, 7, 1902508	13.6	38
405	Intramolecular H-bond design for efficient orange-red thermally activated delayed fluorescence based on a rigid dibenzo[f,h]pyrido[2,3-b]quinoxaline acceptor. *Journal of Materials Chemistry C*, **2020**, 8, 15728-15734	7.1	11
404	6,12-Dihydro-6,12-diboradibenzo[def,mno]chrysene: A Doubly Boron-Doped Polycyclic Aromatic Hydrocarbon for Organic Light Emitting Diodes by a One-Pot Synthesis. *Organic Letters*, **2020**, 22, 7942-7946	6.2	6
403	Single-Photomolecular Nanotheranostics for Synergetic Near-Infrared Fluorescence and Photoacoustic Imaging-Guided Highly Effective Photothermal Ablation. *Small*, **2020**, 16, e2002672	11	15
402	Atomic Layer Deposition of Vanadium Oxide as Hole-Selective Contact for Crystalline Silicon Solar Cells. *Advanced Electronic Materials*, **2020**, 6, 2000467	6.4	29
401	Extended Dihydrophenazine-Based Polymeric Cathode Material for High-Performance Organic Batteries. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 17868-17875	8.3	11
400	Charge-transfer transition regulation of thermally activated delayed fluorescence emitters by changing the valence of sulfur atoms. *Journal of Materials Chemistry C*, **2020**, 8, 17457-17463	7.1	5
399	An ice-melting kinetic control strategy for highly photocatalytic organic nanocrystals. *Journal of Materials Chemistry A*, **2020**, 8, 25275-25282	13	2
398	Atomic-Scale Interface Engineering for Constructing p-CuPc/n-CdS Core–Shell Heterojunctions toward Light-Harvesting Application. *ACS Applied Energy Materials*, **2020**, 3, 8765-8773	6.1	2
397	Hydrogen bond-modulated molecular packing and its applications in high-performance non-doped organic electroluminescence. *Materials Horizons*, **2020**, 7, 2734-2740	14.4	21
396	Graphene-Quantum-Dots-Induced Centimeter-Sized Growth of Monolayer Organic Crystals for High-Performance Transistors. *Advanced Materials*, **2020**, 32, e2003315	24	14
395	Origin of thermally activated delayed fluorescence in a donor–acceptor type emitter with an optimized nearly planar geometry. *Journal of Materials Chemistry C*, **2020**, 8, 13263-13269	7.1	6
394	Highly efficient ternary polymer-based solution-processable exciplex with over 20% external quantum efficiency in organic light-emitting diode. *Organic Electronics*, **2020**, 76, 105449	3.5	14
393	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. *Chemical Science*, **2020**, 12, 1495-1502	9.4	20

392	Air Effect on the Ideality of p-Type Organic Field-Effect Transistors: A Double-Edged Sword. *Advanced Functional Materials*, **2019**, 29, 1906653	15.6	15
391	Blue and white solution-processed TADF-OLEDs with over 20% EQE, low driving voltages and moderate efficiency decrease based on interfacial exciplex hosts. *Journal of Materials Chemistry C*, **2019**, 7, 11806-11812	7.1	31
390	Precise Positioning of Organic Semiconductor Single Crystals with Two-Component Aligned Structure through 3D Wettability-Induced Sequential Assembly. *ACS Applied Materials & Interfaces*, **2019**, 11, 36205-36212	9.5	12
389	One-step growth of large-area silicon nanowire fabrics for high-performance multifunctional wearable sensors. *Nano Research*, **2019**, 12, 2723-2728	10	7
388	External-force-driven solution epitaxy of large-area 2D organic single crystals for high-performance field-effect transistors. *Nano Research*, **2019**, 12, 2796-2801	10	18
387	Development of Red Exciplex for Efficient OLEDs by Employing a Phosphor as a Component. *Frontiers in Chemistry*, **2019**, 7, 16	5	15
386	Isomeric thermally activated delayed fluorescence emitters based on indolo[2,3-b]acridine electron-donor: a compromising optimization for efficient orange-red organic light-emitting diodes. *Journal of Materials Chemistry C*, **2019**, 7, 2898-2904	7.1	20
385	Understanding Non-Twinning Zigzag Nanowire Formation for New Nanoscale Devices. *ACS Applied Nano Materials*, **2019**, 2, 673-677	5.6	1
384	Salt-templated growth of monodisperse hollow nanostructures. *Journal of Materials Chemistry A*, **2019**, 7, 1404-1409	13	23
383	All-inorganic cesium lead halide perovskite nanocrystals: synthesis, surface engineering and applications. *Journal of Materials Chemistry C*, **2019**, 7, 757-789	7.1	146
382	Thermally activated delayed fluorescence emitters with low concentration sensitivity for highly efficient organic light emitting devices. *Journal of Materials Chemistry C*, **2019**, 7, 8923-8928	7.1	8
381	Tuning Electrical and Raman Scattering Properties of Cadmium Sulfide Nanoribbons via Surface Charge Transfer Doping. *Journal of Physical Chemistry C*, **2019**, 123, 15794-15801	3.8	5
380	A Facile Method for the Growth of Organic Semiconductor Single Crystal Arrays on Polymer Dielectric toward Flexible Field-Effect Transistors. *Advanced Functional Materials*, **2019**, 29, 1902494	15.6	30
379	Green solution-processed thermally activated delayed fluorescence OLEDs with improved performance by using interfacial exciplex host. *Organic Electronics*, **2019**, 73, 36-42	3.5	8
378	High-Performance Nanofloating Gate Memory Based on Lead Halide Perovskite Nanocrystals. *ACS Applied Materials & Interfaces*, **2019**, 11, 24367-24376	9.5	15
377	L-Type Ligand-Assisted Acid-Free Synthesis of CsPbBr Nanocrystals with Near-Unity Photoluminescence Quantum Yield and High Stability. *Nano Letters*, **2019**, 19, 4151-4157	11.5	103
376	Dual-Band, High-Performance Phototransistors from Hybrid Perovskite and Organic Crystal Array for Secure Communication Applications. *ACS Nano*, **2019**, 13, 5910-5919	16.7	43
375	pH and redox dual responsive carrier-free anticancer drug nanoparticles for targeted delivery and synergistic therapy. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2019**, 20, 102008	6	16

374	Tricomponent Exciplex Emitter Realizing over 20% External Quantum Efficiency in Organic Light-Emitting Diode with Multiple Reverse Intersystem Crossing Channels. *Advanced Science*, **2019**, 6, 1801938	13.6	27
373	Novel small-molecule electron donor for solution-processed ternary exciplex with 24% external quantum efficiency in organic light-emitting diode. *Materials Horizons*, **2019**, 6, 1425-1432	14.4	42
372	Precise Patterning of Organic Semiconductor Crystals for Integrated Device Applications. *Small*, **2019**, 15, e1900332	11	31
371	Single-Stimulus-Induced Modulation of Multiple Optical Properties. *Advanced Materials*, **2019**, 31, e1900388	24	27
370	Thermally Activated Delayed Fluorescence Carbonyl Derivatives for Organic Light-Emitting Diodes with Extremely Narrow Full Width at Half-Maximum. *ACS Applied Materials & Interfaces*, **2019**, 11, 13472-13480	9.5	90
369	Memory phototransistors based on exponential-association photoelectric conversion law. *Nature Communications*, **2019**, 10, 1294	17.4	29
368	Photodetectors based on small-molecule organic semiconductor crystals. *Chinese Physics B*, **2019**, 28, 038102	1.2	10
367	Dibenzofuran/dibenzothiophene as the secondary electron-donors for highly efficient blue thermally activated delayed fluorescence emitters. *Journal of Materials Chemistry C*, **2019**, 7, 4475-4483	7.1	11
366	Application of Silicon Oxide on High Efficiency Monocrystalline Silicon PERC Solar Cells. *Energies*, **2019**, 12, 1168	3.1	13
365	Chain rigidity modification to promote the electrochemical performance of polymeric battery electrode materials. *Journal of Materials Chemistry A*, **2019**, 7, 10581-10588	13	20
364	A Dual-Ion Organic Symmetric Battery Constructed from Phenazine-Based Artificial Bipolar Molecules. *Angewandte Chemie*, **2019**, 131, 10007-10011	3.6	19
363	A Dual-Ion Organic Symmetric Battery Constructed from Phenazine-Based Artificial Bipolar Molecules. *Angewandte Chemie - International Edition*, **2019**, 58, 9902-9906	16.4	76
362	The Impact of Thermal Treatment on Light-Induced Degradation of Multicrystalline Silicon PERC Solar Cell. *Energies*, **2019**, 12, 416	3.1	9
361	Thermal Transport Engineering in Graphdiyne and Graphdiyne Nanoribbons. *ACS Omega*, **2019**, 4, 4147-4152	3.7	11
360	Manipulation of conjugation to stabilize N redox-active centers for the design of high-voltage organic battery cathode. *Energy Storage Materials*, **2019**, 16, 236-242	19.4	57
359	Channel-restricted meniscus self-assembly for uniformly aligned growth of single-crystal arrays of organic semiconductors. *Materials Today*, **2019**, 24, 17-25	21.8	75
358	Releasing the Trapped Light for Efficient Silver Nanowires-Based White Flexible Organic Light-Emitting Diodes. *Advanced Optical Materials*, **2019**, 7, 1900985	8.1	19
357	2D Ruddlesden–Popper Perovskite Nanoplate Based Deep-Blue Light-Emitting Diodes for Light Communication. *Advanced Functional Materials*, **2019**, 29, 1903861	15.6	71

356	The Nanoassembly of an Intrinsically Cytotoxic Near-Infrared Dye for Multifunctionally Synergistic Theranostics. *Small*, **2019**, 15, e1903121	11	63
355	The Design of Quaternary Nitrogen Redox Center for High-Performance Organic Battery Materials. *Matter*, **2019**, 1, 945-958	12.7	33
354	Red/Near-Infrared Thermally Activated Delayed Fluorescence OLEDs with Near 100 % Internal Quantum Efficiency. *Angewandte Chemie*, **2019**, 131, 14802-14807	3.6	23
353	Red/Near-Infrared Thermally Activated Delayed Fluorescence OLEDs with Near 100 % Internal Quantum Efficiency. *Angewandte Chemie - International Edition*, **2019**, 58, 14660-14665	16.4	149
352	Efficient Orange-Red Thermally Activated Delayed Fluorescence Emitters Feasible for Both Thermal Evaporation and Solution Process. *ACS Applied Materials & Interfaces*, **2019**, 11, 29086-29093	9.5	30
351	Unraveling the Mechanism of the Persistent Photoconductivity in Organic Phototransistors. *Advanced Functional Materials*, **2019**, 29, 1905657	15.6	25
350	Biodegradable Conjugated Oligomer Nanoparticles with High Photothermal Conversion Efficiency for Cancer Theranostics. *ACS Nano*, **2019**, 13, 12901-12911	16.7	104
349	Manipulating exciton dynamics of thermally activated delayed fluorescence materials for tuning two-photon nanotheranostics. *Chemical Science*, **2019**, 11, 888-895	9.4	39
348	Orbital-dependent redox potential regulation of quinone derivatives for electrical energy storage.. *RSC Advances*, **2019**, 9, 5164-5173	3.7	7
347	Enhanced cyclability of organic redox flow batteries enabled by an artificial bipolar molecule in neutral aqueous electrolyte. *Journal of Power Sources*, **2019**, 417, 83-89	8.9	30
346	Organic molecular crystal-based photosynaptic devices for an artificial visual-perception system. *NPG Asia Materials*, **2019**, 11,	10.3	40
345	Improving performance of thermally activated delayed fluorescence emitter by extending its LUMO distribution. *Science China Materials*, **2019**, 62, 719-728	7.1	2
344	Efficient solution-processed red organic light-emitting diode based on an electron-donating building block of pyrrolo[3,2-b]pyrrole. *Organic Electronics*, **2019**, 65, 110-115	3.5	17
343	Highly Efficient Thermally Activated Delayed Fluorescence Emitter Developed by Replacing Carbazole With 1,3,6,8-Tetramethyl-Carbazole. *Frontiers in Chemistry*, **2019**, 7, 17	5	7
342	Green Mass Production of Pure Nanodrugs via an Ice-Template-Assisted Strategy. *Nano Letters*, **2019**, 19, 658-665	11.5	25
341	Few-layer formamidinium lead bromide nanoplatelets for ultrapure-green and high-efficiency light-emitting diodes. *Nano Research*, **2019**, 12, 171-176	10	17
340	Saturated Vapor-Assisted Growth of Single-Crystalline Organic-Inorganic Hybrid Perovskite Nanowires for High-Performance Photodetectors with Robust Stability. *ACS Applied Materials & Interfaces*, **2018**, 10, 10287-10295	9.5	34
339	EQE Climbing Over 6% at High Brightness of 14350 cd/m in Deep-Blue OLEDs Based on Hybridized Local and Charge-Transfer Fluorescence. *ACS Applied Materials & Interfaces*, **2018**, 10, 9629-9637	9.5	44

338	□stacking induced high current density and improved efficiency in ternary organic solar cells. *Nanoscale*, **2018**, 10, 9971-9980	7.7	11
337	Photocatalytic Hydrogenation of Carbon Dioxide with High Selectivity to Methanol at Atmospheric Pressure. *Joule*, **2018**, 2, 1369-1381	27.8	100
336	Highly efficient thermally activated delayed fluorescence emitters based on novel Indolo[2,3-b]acridine electron-donor. *Organic Electronics*, **2018**, 57, 327-334	3.5	12
335	Hydrogen-Bonding Strategy to Optimize Charge Distribution of PC71BM and Enable a High Efficiency of 12.45% for Organic Solar Cells. *Solar Rrl*, **2018**, 2, 1800038	7.1	20
334	Organic□norganic hybrid perovskite quantum dots for light-emitting diodes. *Journal of Materials Chemistry C*, **2018**, 6, 4831-4841	7.1	49
333	Tuning the electronic transport anisotropy in □phase phosphorene through superlattice design. *Physical Review B*, **2018**, 97,	3.3	8
332	Hue tunable, high color saturation and high-efficiency graphene/silicon heterojunction solar cells with MgF2/ZnS double anti-reflection layer. *Nano Energy*, **2018**, 46, 257-265	17.1	33
331	Local-Curvature-Controlled Non-Epitaxial Growth of Hierarchical Nanostructures. *Angewandte Chemie - International Edition*, **2018**, 57, 3772-3776	16.4	15
330	CdS Nanoribbon-Based Resistive Switches with Ultrawidely Tunable Power by Surface Charge Transfer Doping. *Advanced Functional Materials*, **2018**, 28, 1706577	15.6	14
329	Facile Assembly of High-Quality Organic□norganic Hybrid Perovskite Quantum Dot Thin Films for Bright Light-Emitting Diodes. *Advanced Functional Materials*, **2018**, 28, 1705189	15.6	48
328	Promoting Charge Separation in Semiconductor Nanocrystal Superstructures for Enhanced Photocatalytic Activity. *Advanced Materials Interfaces*, **2018**, 5, 1701694	4.6	25
327	A general and mild route to highly dispersible anisotropic magnetic colloids for sensing weak magnetic fields. *Journal of Materials Chemistry C*, **2018**, 6, 5528-5535	7.1	17
326	The impact of light irradiation timing on the efficacy of nanoformula-based photo/chemo combination therapy. *Journal of Materials Chemistry B*, **2018**, 6, 3692-3702	7.3	22
325	Solution-Processed 3D RGO-MoS /Pyramid Si Heterojunction for Ultrahigh Detectivity and Ultra-Broadband Photodetection. *Advanced Materials*, **2018**, 30, e1801729	24	117
324	Efficient solution-processed orange-red organic light-emitting diodes based on a novel thermally activated delayed fluorescence emitter. *Journal of Materials Chemistry C*, **2018**, 6, 9152-9157	7.1	21
323	Doxorubicin@Bcl-2 siRNA Core@Shell Nanoparticles for Synergistic Anticancer Chemotherapy.. *ACS Applied Bio Materials*, **2018**, 1, 289-297	4.1	11
322	Red Organic Light-Emitting Diode with External Quantum Efficiency beyond 20% Based on a Novel Thermally Activated Delayed Fluorescence Emitter. *Advanced Science*, **2018**, 5, 1800436	13.6	126
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