Yiwang Chen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

554 papers	14,732 citations	57 h-index	90 g-index
583 ext. papers	17,764 ext. citations	7.9 avg, IF	7.01 L-index

#	Paper	IF	Citations
554	Deciphering the Precursor-Performance Relationship of Single-Atom Iron Oxygen Electroreduction Catalysts via Isomer Engineering.. *Small*, **2022**, e2106122	11	3
553	The synergistic effects of central core size and end group engineering on performance of narrow bandgap nonfullerene acceptors. *Chemical Engineering Journal*, **2022**, 435, 135020	14.7	0
552	Highly efficient and stable ZnO-based MA-free perovskite solar cells via overcoming interfacial mismatch and deprotonation reaction. *Chemical Engineering Journal*, **2022**, 431, 134235	14.7	0
551	Realizing high-performance organic solar cells through precise control of HOMO driving force based on ternary alloy strategy. *Journal of Energy Chemistry*, **2022**, 65, 133-140	12	8
550	Advancements in organic small molecule hole-transporting materials for perovskite solar cells: past and future. *Journal of Materials Chemistry A*, **2022**, 10, 5044-5081	13	6
549	Simultaneously Integrate Iron Single Atom and Nanocluster Triggered Tandem Effect for Boosting Oxygen Electroreduction.. *Small*, **2022**, e2107225	11	5
548	Oligomer-assisted Photoactive Layers Enable >18% Efficiency of Organic Solar Cells.. *Angewandte Chemie - International Edition*, **2022**,	16.4	6
547	N-Doped Carbon Coated SnS/rGO Composite with Superior Cyclic Stability as Anode for Lithium-Ion Batteries. *Industrial & Engineering Chemistry Research*, **2022**, 61, 4339-4347	3.9	0
546	Pseudo-Planar Heterojunction Organic Photovoltaics with Optimized Light Utilization for Printable Solar Windows.. *Advanced Materials*, **2022**, e2201604	24	4
545	Halogen-free donor polymers based on dicyanobenzotriazole for additive-free organic solar cells. *Chemical Engineering Journal*, **2022**, 442, 136068	14.7	1
544	Recent progress in organic solar cells (Part I material science). *Science China Chemistry*, **2022**, 65, 224-268	7.9	48
543	Rational Regulation of the Molecular Aggregation Enables A Facile Blade-Coating Process of Large-area All-Polymer Solar Cells with Record Efficiency.. *Small*, **2022**, e2200734	11	3
542	Elimination of Interfacial Lattice Mismatch and Detrimental Reaction by Self-Assembled Layer Dual-Passivation for Efficient and Stable Inverted Perovskite Solar Cells. *Advanced Energy Materials*, **2022**, 12, 2103674	21.8	15
541	A Bionic Interface to Suppressing the Coffee-ring Effect for Reliable and Flexible Perovskite Modules with a near 90% Yield Rate.. *Advanced Materials*, **2022**, e2201840	24	7
540	Iron-based nanocomposites implanting in N, P Co-doped carbon nanosheets as efficient oxygen reduction electrocatalysts for Zn-Air batteries. *Composites Communications*, **2021**, 100994	6.7	1
539	Printable and stable all-polymer solar cells based on non-conjugated polymer acceptors with excellent mechanical robustness. *Science China Chemistry*, **2021**, 1	7.9	8
538	Optimizing Microenvironment of Asymmetric N,S-Coordinated Single-Atom Fe via Axial Fifth Coordination toward Efficient Oxygen Electroreduction. *Small*, **2021**, e2105387	11	14

537	Colloidal chemistry in perovskite precursor solution. *Science Bulletin*, **2021**, 67, 561-561	10.6	1
536	Enhanced Efficiency and Excellent Thermostability in Organic Photovoltaics via Ternary Strategy with Twisted Conjugated Compound. *Small*, **2021**, 17, e2103537	11	4
535	Regulating Favorable Morphology Evolution by a Simple Liquid-Crystalline Small Molecule Enables Organic Solar Cells with over 17% Efficiency and a Remarkable Jsc of 26.56 mA/cm2. *Chemistry of Materials*, **2021**, 33, 430-440	9.6	24
534	Enabling 2.4-V aqueous supercapacitors through the rational design of an integrated electrode of hollow vanadium trioxide/carbon nanospheres. *Science China Materials*, **2021**, 64, 2163-2172	7.1	4
533	A non-wetting and conductive polyethylene dioxothiophene hole transport layer for scalable and flexible perovskite solar cells. *Science China Chemistry*, **2021**, 64, 834-843	7.9	9
532	Ionic Liquid-Induced Ostwald Ripening Effect for Efficient and Stable Tin-Based Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2021**, 13, 15420-15428	9.5	13
531	Regulation of the Miscibility of the Active Layer by Random Terpolymer Acceptors to Realize High-Performance All-Polymer Solar Cells. *ACS Applied Polymer Materials*, **2021**, 3, 1923-1931	4.3	5
530	Theoretical Study of Excited State Charge Transfer Characteristics based on ADA and ADA?DA Type Nonfullerene Acceptors. *Journal of Physical Chemistry C*, **2021**, 125, 10250-10259	3.8	8
529	Wearable Tin-Based Perovskite Solar Cells Achieved by a Crystallographic Size Effect. *Angewandte Chemie - International Edition*, **2021**, 60, 14693-14700	16.4	20
528	Wearable Tin-Based Perovskite Solar Cells Achieved by a Crystallographic Size Effect. *Angewandte Chemie*, **2021**, 133, 14814-14821	3.6	1
527	High-Efficiency (16.93%) Pseudo-Planar Heterojunction Organic Solar Cells Enabled by Binary Additives Strategy. *Advanced Functional Materials*, **2021**, 31, 2102291	15.6	31
526	High-La2O3 as an anode modifier to reduce leakage current for efficient perovskite solar cells. *Surfaces and Interfaces*, **2021**, 24, 101102	4.1	1
525	Directional Crystallization by Floating Self-Assembly for Efficient and Stable Tin-based Perovskite Solar Cells. *Chemistry of Materials*, **2021**, 33, 4362-4372	9.6	7
524	Layer-by-Layer Solution-Processed Organic Solar Cells with Perylene Diimides as Acceptors. *ACS Applied Materials & Interfaces*, **2021**, 13, 29876-29884	9.5	4
523	Current Development toward Commercialization of Metal-Halide Perovskite Photovoltaics. *Advanced Optical Materials*, **2021**, 9, 2100390	8.1	9
522	Silicon Naphthalocyanine Tetraimides: Cathode Interlayer Materials for Highly Efficient Organic Solar Cells. *Angewandte Chemie - International Edition*, **2021**, 60, 19053-19057	16.4	12
521	Molecular Control of Carbon-Based Oxygen Reduction Electrocatalysts through Metal Macrocyclic Complexes Functionalization. *Advanced Energy Materials*, **2021**, 11, 2100866	21.8	6
520	Spontaneous Formation of Upper Gradient 2D Structure for Efficient and Stable Quasi-2D Perovskites. *Advanced Materials*, **2021**, 33, e2101823	24	7

519	Releasing Nanocapsules for High-Throughput Printing of Stable Perovskite Solar Cells. *Advanced Energy Materials*, **2021**, 11, 2101291	21.8	3
518	Cementitious grain-boundary passivation for flexible perovskite solar cells with superior environmental stability and mechanical robustness. *Science Bulletin*, **2021**, 66, 527-535	10.6	23
517	1,2,4-Triazoline-3,5-dione substituted perylene diimides as near infrared acceptors for bulk heterojunction organic solar cells. *Dyes and Pigments*, **2021**, 187, 109108	4.6	4
516	Recent Advances of PEDOT in Flexible Energy Conversion and Storage Devices. *Acta Chimica Sinica*, **2021**, 79, 853	3.3	0
515	A novel AIE molecule as a hole transport layer enables efficient and stable perovskite solar cells. *Chemical Communications*, **2021**, 57, 4015-4018	5.8	1
514	Revealing Morphology Evolution in Highly Efficient Bulk Heterojunction and Pseudo-Planar Heterojunction Solar Cells by Additives Treatment. *Advanced Energy Materials*, **2021**, 11, 2003390	21.8	44
513	An in situ bifacial passivation strategy for flexible perovskite solar module with mechanical robustness by roll-to-roll fabrication. *Journal of Materials Chemistry A*, **2021**, 9, 5759-5768	13	21
512	Ultra-flexible and waterproof perovskite photovoltaics for washable power source applications. *Chemical Communications*, **2021**, 57, 6320-6323	5.8	5
511	Coupling of EDLC and the reversible redox reaction: oxygen functionalized porous carbon nanosheets for zinc-ion hybrid supercapacitors. *Journal of Materials Chemistry A*, **2021**, 9, 15404-15414	13	16
510	Pyrolysis-free polymer-based oxygen electrocatalysts. *Energy and Environmental Science*, **2021**, 14, 2789-2808	35.4	14
509	Tremendously enhanced photocurrent enabled by triplet–triplet annihilation up-conversion for high-performance perovskite solar cells. *Energy and Environmental Science*, **2021**, 14, 3532-3541	35.4	10
508	Narrow band-gap materials with overlapping absorption simultaneously increase the open circuit voltage and average visible transmittance of semitransparent organic solar cells. *Journal of Materials Chemistry A*, **2021**, 9, 5711-5719	13	13
507	Highly porous Mn3O4 nanosheets with in situ coated carbon enabling fully screen-printed planar supercapacitors with remarkable volumetric performance. *Journal of Materials Chemistry A*, **2021**, 9, 4273-4280	13	3
506	Structural similarity induced improvement in the performance of organic solar cells based on novel terpolymer donors. *Journal of Materials Chemistry A*, **2021**, 9, 9238-9247	13	9
505	Green quasi-solid-state planar asymmetric supercapacitors with high working voltage and extraordinary volumetric energy density. *Journal of Materials Chemistry A*, **2021**, 9, 14363-14371	13	4
504	Enriching redox active sites by interconnected nanowalls-like nickel cobalt phospho-sulfide nanosheets for high performance supercapacitors. *Chinese Chemical Letters*, **2021**,	8.1	3
503	Evaporation-Free Organic Solar Cells with High Efficiency Enabled by Dry and Nonimmersive Sintering Strategy. *Advanced Functional Materials*, **2021**, 31, 2010764	15.6	3
502	Novel polymer acceptors achieving 10.18% efficiency for all-polymer solar cells. *Journal of Energy Chemistry*, **2021**, 53, 63-68	12	15

501	Rapid Microwave-Assisted Synthesis of SnO2 Quantum Dots for Efficient Planar Perovskite Solar Cells. *ACS Applied Energy Materials*, **2021**, 4, 1887-1893	6.1	12
500	Over 70% Fill Factor of All-Polymer Solar Cells Guided by the Law of Similarity and Intermiscibility. *Solar Rrl*, **2021**, 5, 2100019	7.1	5
499	Silicon Naphthalocyanine Tetraimides: Cathode Interlayer Materials for Highly Efficient Organic Solar Cells. *Angewandte Chemie*, **2021**, 133, 19201-19205	3.6	0
498	Defect Passivation Effect of Chemical Groups on Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2021**,	9.5	3
497	Thickness-Insensitive Anode Interface Layer for High-Efficiency Organic Solar Cells. *ACS Applied Materials & Interfaces*, **2021**, 13, 39844-39853	9.5	1
496	Recent Developments of Microenvironment Engineering of Single-Atom Catalysts for Oxygen Reduction toward Desired Activity and Selectivity. *Advanced Functional Materials*, **2021**, 31, 2103857	15.6	25
495	Electrodeposition of poly(3,4-ethylenedioxythiophene) coated manganese dioxide nanospheres for flexible asymmetric planar supercapacitor with superior energy density. *Journal of Power Sources*, **2021**, 506, 230176	8.9	5
494	Novel efficient accptor1-acceptor2 type copolymer donors: Vinyl induced planar geometry and high performance organic solar cells. *Chemical Engineering Journal*, **2021**, 419, 129532	14.7	4
493	Highly crystalline acceptor materials based on benzodithiophene with different amount of fluorine substitution on alkoxyphenyl conjugated side chains for organic photovoltaics. *Materials Reports Energy*, **2021**, 1, 100059		0
492	Molecular crowding agents engineered to make bioinspired electrolytes for high-voltage aqueous supercapacitors. *EScience*, **2021**, 1, 83-83		9
491	Obstructing interfacial reaction between NiOx and perovskite to enable efficient and stable inverted perovskite solar cells. *Chemical Engineering Journal*, **2021**, 426, 131357	14.7	23
490	Minimization of ion transport resistance: diblock copolymer micelle derived nitrogen-doped hierarchically porous carbon spheres for superior rate and power Zn-ion capacitors. *Journal of Materials Chemistry A*, **2021**, 9, 8435-8443	13	14
489	Fast assembly of MXene hydrogels by interfacial electrostatic interaction for supercapacitors. *Chemical Communications*, **2021**, 57, 10731-10734	5.8	7
488	Toward efficient perovskite solar cells by planar imprint for improved perovskite film quality and granted bifunctional barrier. *Journal of Materials Chemistry A*, **2021**, 9, 16178-16186	13	5
487	Printable Hole Transport Layer for 1.0 cm Organic Solar Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 52028-52037	9.5	9
486	Hole transport layers for organic solar cells: recent progress and prospects. *Journal of Materials Chemistry A*, **2020**, 8, 11478-11492	13	52
485	Stretchable Perovskite Solar Cells with Recoverable Performance. *Angewandte Chemie - International Edition*, **2020**, 59, 16602-16608	16.4	57
484	Stretchable Perovskite Solar Cells with Recoverable Performance. *Angewandte Chemie*, **2020**, 132, 16745	3.6	

483	Wide Band-gap Two-dimension Conjugated Polymer Donors with Different Amounts of Chlorine Substitution on Alkoxyphenyl Conjugated Side Chains for Non-fullerene Polymer Solar Cells. *Chinese Journal of Polymer Science (English Edition)*, **2020**, 38, 797-805	3.5	8
482	Reducing Energy Loss and Morphology Optimization Manipulated by Molecular Geometry Engineering for Hetero-junction Organic Solar Cells. *Chinese Journal of Chemistry*, **2020**, 38, 1553-1559	4.9	6
481	Bio-inspired vertebral design for scalable and flexible perovskite solar cells. *Nature Communications* , **2020**, 11, 3016	17.4	86
480	Two-Dimension Conjugated Acceptors Based on Benzodi(cyclopentadithiophene) Core with Thiophene-Fused Ending Group for Efficient Polymer Solar Cells. *Solar Rrl*, **2020**, 4, 2000071	7.1	8
479	Zn–Air Batteries: Simultaneously Integrating Single Atomic Cobalt Sites and Co9S8 Nanoparticles into Hollow Carbon Nanotubes as Trifunctional Electrocatalysts for Zn–Air Batteries to Drive Water Splitting (Small 10/2020). *Small*, **2020**, 16, 2070053	11	1
478	Stabilized and Operational PbI2 Precursor Ink for Large-Scale Perovskite Solar Cells via Two-Step Blade-Coating. *Journal of Physical Chemistry C*, **2020**, 124, 8129-8139	3.8	14
477	The role of dipole moment in two fused-ring electron acceptor and one polymer donor based ternary organic solar cells. *Materials Chemistry Frontiers*, **2020**, 4, 1507-1518	7.8	13
476	An Effective Method for Recovering Nonradiative Recombination Loss in Scalable Organic Solar Cells. *Advanced Functional Materials*, **2020**, 30, 2000417	15.6	14
475	Regulated Crystallization of Efficient and Stable Tin-Based Perovskite Solar Cells via a Self-Sealing Polymer. *ACS Applied Materials & Interfaces*, **2020**, 12, 14049-14056	9.5	52
474	A generalized one-step in situ formation of metal sulfide/reduced graphene oxide nanosheets toward high-performance supercapacitors. *Science China Materials*, **2020**, 63, 1898-1909	7.1	30
473	Preparation of efficient inverted tin-based perovskite solar cells via the bidentate coordination effect of 8-hydroxyquinoline. *Chemical Communications*, **2020**, 56, 4007-4010	5.8	35
472	High-Performance Pseudoplanar Heterojunction Ternary Organic Solar Cells with Nonfullerene Alloyed Acceptor. *Advanced Functional Materials*, **2020**, 30, 1909760	15.6	59
471	Flexible and Wearable Solar Cells and Supercapacitors **2020**, 87-129		3
470	Polyolefin Elastomer as the Anode Interfacial Layer for Improved Mechanical and Air Stabilities in Nonfullerene Solar Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 10706-10716	9.5	12
469	Simultaneously Integrating Single Atomic Cobalt Sites and Co S Nanoparticles into Hollow Carbon Nanotubes as Trifunctional Electrocatalysts for Zn-Air Batteries to Drive Water Splitting. *Small*, **2020**, 16, e1906735	11	59
468	Asymmetric Acceptors with Fluorine and Chlorine Substitution for Organic Solar Cells toward 16.83% Efficiency. *Advanced Functional Materials*, **2020**, 30, 2000456	15.6	117
467	Introducing Porphyrin Units by Random Copolymerization Into NDI-Based Acceptor for All Polymer Solar Cells. *Frontiers in Chemistry*, **2020**, 8, 310	5	3
466	An efficient and stable tin-based perovskite solar cell passivated by aminoguanidine hydrochloride. *Journal of Materials Chemistry C*, **2020**, 8, 7786-7792	7.1	14

465	Flexible perovskite solar cells: device design and perspective. *Flexible and Printed Electronics*, **2020**, 5, 013002	3.1	9
464	Coaxial electrospun free-standing and mechanically stable hierarchical porous carbon nanofiber membranes for flexible supercapacitors. *Carbon*, **2020**, 160, 80-87	10.4	49
463	Subnaphthalocyanine triimides: potential three-dimensional solution processable acceptors for organic solar cells. *Journal of Materials Chemistry C*, **2020**, 8, 2186-2195	7.1	5
462	Low-Temperature-Processed WOx as Electron Transfer Layer for Planar Perovskite Solar Cells Exceeding 20% Efficiency. *Solar Rrl*, **2020**, 4, 1900499	7.1	17
461	Boosting Oxygen Reduction of Single Iron Active Sites via Geometric and Electronic Engineering: Nitrogen and Phosphorus Dual Coordination. *Journal of the American Chemical Society*, **2020**, 142, 2404-2412	16.4	317
460	Regulating Voltage Window and Energy Density of Aqueous Asymmetric Supercapacitors by Pinecone-Like Hollow Fe2O3/MnO2 Nano-Heterostructure. *Advanced Materials Interfaces*, **2020**, 7, 1901729	4.6	21
459	Stable Triple Cation Perovskite Precursor for Highly Efficient Perovskite Solar Cells Enabled by Interaction with 18C6 Stabilizer. *Advanced Functional Materials*, **2020**, 30, 1908613	15.6	32
458	Recent advances of computational chemistry in organic solar cell research. *Journal of Materials Chemistry C*, **2020**, 8, 15920-15939	7.1	20
457	A General Electrodeposition Strategy for Fabricating Ultrathin Nickel Cobalt Phosphate Nanosheets with Ultrahigh Capacity and Rate Performance. *ACS Nano*, **2020**, 14, 14201-14211	16.7	50
456	Innenr□ktitelbild: Stretchable Perovskite Solar Cells with Recoverable Performance (Angew. Chem. 38/2020). *Angewandte Chemie*, **2020**, 132, 16947	3.6	1
455	Printable and Large-Area Organic Solar Cells Enabled by a Ternary Pseudo-Planar Heterojunction Strategy. *Advanced Functional Materials*, **2020**, 30, 2003223	15.6	36
454	Engineering efficient bifunctional electrocatalysts for rechargeable zinc□air batteries by confining Fe□Co□Ni nanoalloys in nitrogen-doped carbon nanotube@nanosheet frameworks. *Journal of Materials Chemistry A*, **2020**, 8, 25919-25930	13	32
453	Understanding the Mechanism between Antisolvent Dripping and Additive Doping Strategies on the Passivation Effects in Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 56151-56160	9.5	15
452	Isomeric Effect of Wide Bandgap Polymer Donors with High Crystallinity to Achieve Efficient Polymer Solar Cells. *Macromolecular Rapid Communications*, **2020**, 41, e2000454	4.8	4
451	Covalently Sandwiching MXene by Conjugated Microporous Polymers with Excellent Stability for Supercapacitors. *Small Methods*, **2020**, 4, 2000434	12.8	17
450	Atomic Layer Deposition of Metal Oxides in Perovskite Solar Cells: Present and Future. *Small Methods*, **2020**, 4, 2000588	12.8	10
449	Concerted regulation on vertical orientation and film quality of two-dimensional ruddlesden-popper perovskite layer for efficient solar cells. *Science China Chemistry*, **2020**, 63, 1675-1683	7.9	5
448	Synthesis and property study of phthalocyanine tetraimides as solution processable electron acceptors. *Dyes and Pigments*, **2020**, 173, 107980	4.6	4

447	"Double-Acceptor-Type" Random Conjugated Terpolymer Donors for Additive-Free Non-Fullerene Organic Solar Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 20741-20749	9.5	11
446	Controlling Crystal Growth via an Autonomously Longitudinal Scaffold for Planar Perovskite Solar Cells. *Advanced Materials*, **2020**, 32, e2000617	24	55
445	Electroless deposition of silver grids flexible transparent electrode integrated by ultra-violet nanoimprint lithography. *Organic Electronics*, **2019**, 75, 105408	3.5	12
444	Nacre-inspired crystallization and elastic "brick-and-mortar" structure for a wearable perovskite solar module. *Energy and Environmental Science*, **2019**, 12, 979-987	35.4	77
443	Seleno twisted benzodiperylenediimides: facile synthesis and excellent electron acceptors for additive-free organic solar cells. *Chemical Communications*, **2019**, 55, 703-706	5.8	9
442	A Terminally Tetrafluorinated Nonfullerene Acceptor for Well-Performing Alloy Ternary Solar Cells. *Advanced Functional Materials*, **2019**, 29, 1805872	15.6	56
441	A novel alkylsilyl-fused copolymer-based non-fullerene solar cell with over 12% efficiency. *Journal of Materials Chemistry A*, **2019**, 7, 4145-4152	13	14
440	Morphological optimization by rational matching of the donor and acceptor boosts the efficiency of alkylsilyl fused ring-based polymer solar cells. *Journal of Materials Chemistry A*, **2019**, 7, 4847-4854	13	9
439	Amphiphilic Fullerenes Employed to Improve the Quality of Perovskite Films and the Stability of Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 24782-24788	9.5	43
438	Incorporation of two electron acceptors to improve the electron mobility and stability of perovskite solar cells. *Journal of Materials Chemistry C*, **2019**, 7, 8344-8349	7.1	8
437	Covalent Connection of Polyaniline with MoS2 Nanosheets toward Ultrahigh Rate Capability Supercapacitors. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 11540-11549	8.3	43
436	Vertical Distribution to Optimize Active Layer Morphology for Efficient All-Polymer Solar Cells by J71 as a Compatibilizer. *Macromolecules*, **2019**, 52, 4359-4369	5.5	24
435	Enhanced performance and stability of p□i□n perovskite solar cells by utilizing an AIE-active cathode interlayer. *Journal of Materials Chemistry A*, **2019**, 7, 15662-15672	13	16
434	FeO-Encapsulating N-doped porous carbon materials as efficient oxygen reduction reaction electrocatalysts for Zn-air batteries. *Chemical Communications*, **2019**, 55, 7538-7541	5.8	29
433	Fused selenophene-thieno[3,2-b]thiophene-selenophene (ST)-based narrow-bandgap electron acceptor for efficient organic solar cells with small voltage loss. *Chemical Communications*, **2019**, 55, 8258-8261	5.8	34
432	Specific interaction between fluorine atoms and thiol groups accounting for higher domain purity and photostability in narrowband BHJ systems. *Journal of Polymer Science, Part B: Polymer Physics*, **2019**, 57, 941-951	2.6	1
431	Miscibility Tuning for Optimizing Phase Separation and Vertical Distribution toward Highly Efficient Organic Solar Cells. *Advanced Science*, **2019**, 6, 1900565	13.6	56
430	Solvent-Assisted Low-Temperature Crystallization of SnO2 Electron-Transfer Layer for High-Efficiency Planar Perovskite Solar Cells. *Advanced Functional Materials*, **2019**, 29, 1900557	15.6	38

429	Perovskite Solar Cells: High-Performance Perovskite Solar Cells with Excellent Humidity and Thermo-Stability via Fluorinated Perylenediimide (Adv. Energy Mater. 18/2019). *Advanced Energy Materials*, **2019**, 9, 1970064	21.8	7
428	Facile and Scalable Fabrication of Nitrogen-Doped Porous Carbon Nanosheets for Capacitive Energy Storage with Ultrahigh Energy Density. *ACS Applied Materials & Interfaces*, **2019**, 11, 20029-20036	9.5	14
427	Random copolymerization realized high efficient polymer solar cells with a record fill factor near 80%. *Nano Energy*, **2019**, 61, 228-235	17.1	23
426	Additive-free non-fullerene organic solar cells with random copolymers as donors over 9% power conversion efficiency. *Chinese Chemical Letters*, **2019**, 30, 1161-1167	8.1	10
425	Hole Transportation: Enhanced Hole Transportation for Inverted Tin-Based Perovskite Solar Cells with High Performance and Stability (Adv. Funct. Mater. 18/2019). *Advanced Functional Materials*, **2019**, 29, 1970117	15.6	3
424	Double Acceptor Block-Containing Copolymers with Deep HOMO Levels for Organic Solar Cells: Adjusting Carboxylate Substituent Position for Planarity. *ACS Applied Materials & Interfaces*, **2019**, 11, 15853-15860	9.5	15
423	Improvement in the Efficiency of Alkylsilyl Functionalized Copolymer for Polymer Solar Cells: Face-On Orientation Enhanced by Random Copolymerization. *Solar Rrl*, **2019**, 3, 1900122	7.1	11
422	Subphthalocyanine Triimides: Solution Processable Bowl-Shaped Acceptors for Bulk Heterojunction Solar Cells. *Organic Letters*, **2019**, 21, 3382-3386	6.2	26
421	High-Performance Perovskite Solar Cells with Excellent Humidity and Thermo-Stability via Fluorinated Perylenediimide. *Advanced Energy Materials*, **2019**, 9, 1900198	21.8	133
420	Thick polyfluorene-based polyelectrolytes realized by regulation of conjugated backbone as cathode interface layers for efficient polymer solar cells. *Journal of Power Sources*, **2019**, 423, 26-33	8.9	6
419	Hierarchical nickel cobalt sulfide nanosheet on MOF-derived carbon nanowall arrays with remarkable supercapacitive performance. *Carbon*, **2019**, 147, 146-153	10.4	48
418	A bendable nickel oxide interfacial layer via polydopamine crosslinking for flexible perovskite solar cells. *Chemical Communications*, **2019**, 55, 3666-3669	5.8	35
417	CoO Supraparticle-Based Bubble Nanofiber and Bubble Nanosheet with Remarkable Electrochemical Performance. *Advanced Science*, **2019**, 6, 1900107	13.6	43
416	A rational comparison of the effects of halogen atoms incorporated into the polymer donors on the performance of polymer solar cells. *Organic Electronics*, **2019**, 70, 86-92	3.5	10
415	Highly Efficient Flexible Polymer Solar Cells with Robust Mechanical Stability. *Advanced Science*, **2019**, 6, 1801180	13.6	35
414	Enhanced Hole Transportation for Inverted Tin-Based Perovskite Solar Cells with High Performance and Stability. *Advanced Functional Materials*, **2019**, 29, 1808059	15.6	93
413	In situ nanoarchitecturing and active-site engineering toward highly efficient carbonaceous electrocatalysts. *Nano Energy*, **2019**, 59, 207-215	17.1	42
412	Thioether Bond Modification Enables Boosted Photovoltaic Performance of Nonfullerene Polymer Solar Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 32218-32224	9.5	15

411	A General Approach for Lab-to-Manufacturing Translation on Flexible Organic Solar Cells. *Advanced Materials*, **2019**, 31, e1903649	24	81
410	Construction of facile ion and electron diffusion by hierarchical core-branch Zn substituted $NiCo_2S_4$ nanocomposite for high-performance asymmetric supercapacitors. *Carbon*, **2019**, 153, 531-538	10.4	41
409	Silver Mesh Electrodes via Electroless Deposition-Coupled Inkjet-Printing Mask Technology for Flexible Polymer Solar Cells. *Langmuir*, **2019**, 35, 9713-9720	4	12
408	Hierarchical Nanosheets/Walls Structured Carbon-Coated Porous Vanadium Nitride Anodes Enable Wide-Voltage-Window Aqueous Asymmetric Supercapacitors with High Energy Density. *Advanced Science*, **2019**, 6, 1900550	13.6	40
407	Unraveling the Morphology in Solution-Processed Pseudo-Bilayer Planar Heterojunction Organic Solar Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 26213-26221	9.5	25
406	Water-Resistant and Flexible Perovskite Solar Cells via a Glued Interfacial Layer. *Advanced Functional Materials*, **2019**, 29, 1902629	15.6	64
405	A Mechanically Robust Conducting Polymer Network Electrode for Efficient Flexible Perovskite Solar Cells. *Joule*, **2019**, 3, 2205-2218	27.8	111
404	Exploring Overall Photoelectric Applications by Organic Materials Containing Symmetric Donor Isomers. *Chemistry of Materials*, **2019**, 31, 8810-8819	9.6	8
403	Flexible Solar Cells: A General Approach for Lab-to-Manufacturing Translation on Flexible Organic Solar Cells (Adv. Mater. 41/2019). *Advanced Materials*, **2019**, 31, 1970294	24	3
402	Toward Scalable PbS Quantum Dot Solar Cells Using a Tailored Polymeric Hole Conductor. *ACS Energy Letters*, **2019**, 4, 2850-2858	20.1	41
401	Asymmetric Wide-Bandgap Polymers Simultaneously Improve the Open-Circuit Voltage and Short-Circuit Current for Organic Photovoltaics. *Macromolecular Rapid Communications*, **2019**, 40, e1800906	4.8	20
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