

Yiwang Chen

List of Publications by Citations

Source: <https://exaly.com/author-pdf/9436072/yiwang-chen-publications-by-citations.pdf>

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Polymeric AIE-based nanoprobe for biomedical applications: recent advances and perspectives. <i>Nanoscale</i> , 2015 , 7, 11486-508	7.7	453
553	Dithienopicenocarbazole-Based Acceptors for Efficient Organic Solar Cells with Optoelectronic Response Over 1000 nm and an Extremely Low Energy Loss. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2054-2057	16.4	322
552	Boosting Oxygen Reduction of Single Iron Active Sites via Geometric and Electronic Engineering: Nitrogen and Phosphorus Dual Coordination. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2404-2412	16.4	317
551	Recent Progress on the Long-Term Stability of Perovskite Solar Cells. <i>Advanced Science</i> , 2018 , 5, 1700387	13.6	248
550	Fabrication of aggregation induced emission dye-based fluorescent organic nanoparticles via emulsion polymerization and their cell imaging applications. <i>Polymer Chemistry</i> , 2014 , 5, 399-404	4.9	217
549	Polymerizable aggregation-induced emission dye-based fluorescent nanoparticles for cell imaging applications. <i>Polymer Chemistry</i> , 2014 , 5, 356-360	4.9	206
548	Synergetic Contribution of Boron and Fe _N x Species in Porous Carbons toward Efficient Electrocatalysts for Oxygen Reduction Reaction. <i>ACS Energy Letters</i> , 2018 , 3, 252-260	20.1	184
547	Non-halogenated solvents for environmentally friendly processing of high-performance bulk-heterojunction polymer solar cells. <i>Energy and Environmental Science</i> , 2013 , 6, 3241	35.4	160
546	Highly Efficient Organic Solar Cells Based on S,N-Heteroacene Non-Fullerene Acceptors. <i>Chemistry of Materials</i> , 2018 , 30, 5429-5434	9.6	158
545	When Al-Doped Cobalt Sulfide Nanosheets Meet Nickel Nanotube Arrays: A Highly Efficient and Stable Cathode for Asymmetric Supercapacitors. <i>ACS Nano</i> , 2018 , 12, 3030-3041	16.7	148
544	Nanofibrous and Graphene-Templated Conjugated Microporous Polymer Materials for Flexible Chemosensors and Supercapacitors. <i>Chemistry of Materials</i> , 2015 , 27, 7403-7411	9.6	138
543	High-Performance Perovskite Solar Cells with Excellent Humidity and Thermo-Stability via Fluorinated Perylenediimide. <i>Advanced Energy Materials</i> , 2019 , 9, 1900198	21.8	133
542	Photonic Nanostructures Patterned by Thermal Nanoimprint Directly into Organo-Metal Halide Perovskites. <i>Advanced Materials</i> , 2017 , 29, 1605003	24	124
541	Highly Efficient Inverted Organic Solar Cells Through Material and Interfacial Engineering of Indacenodithieno[3,2-b]thiophene-Based Polymers and Devices. <i>Advanced Functional Materials</i> , 2014 , 24, 1465-1473	15.6	120
540	Asymmetric Acceptors with Fluorine and Chlorine Substitution for Organic Solar Cells toward 16.83% Efficiency. <i>Advanced Functional Materials</i> , 2020 , 30, 2000456	15.6	117
539	Straightforward Generation of Pillared, Microporous Graphene Frameworks for Use in Supercapacitors. <i>Advanced Materials</i> , 2015 , 27, 6714-21	24	117
538	Poly(vinylidene fluoride) with Grafted Poly(ethylene glycol) Side Chains via the RAFT-Mediated Process and Pore Size Control of the Copolymer Membranes. <i>Macromolecules</i> , 2003 , 36, 9451-9457	5.5	117

537	Nucleation and Crystallization Control via Polyurethane to Enhance the Bendability of Perovskite Solar Cells with Excellent Device Performance. <i>Advanced Functional Materials</i> , 2017 , 27, 1703061	15.6	116
536	Wearable Large-Scale Perovskite Solar-Power Source via Nanocellular Scaffold. <i>Advanced Materials</i> , 2017 , 29, 1703236	24	113
535	A label-free amperometric immunosensor based on biocompatible conductive redox chitosan-ferrocene/gold nanoparticles matrix. <i>Biosensors and Bioelectronics</i> , 2009 , 25, 852-7	11.8	113
534	A Mechanically Robust Conducting Polymer Network Electrode for Efficient Flexible Perovskite Solar Cells. <i>Joule</i> , 2019 , 3, 2205-2218	27.8	111
533	Two-Dimensional Core-Shelled Porous Hybrids as Highly Efficient Catalysts for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6858-63	16.4	111
532	Facile fabrication and cell imaging applications of aggregation-induced emission dye-based fluorescent organic nanoparticles. <i>Polymer Chemistry</i> , 2013 , 4, 4317	4.9	110
531	Atom transfer radical polymerization directly from poly(vinylidene fluoride): Surface and antifouling properties. <i>Journal of Polymer Science Part A</i> , 2006 , 44, 3434-3443	2.5	109
530	A General Route to Enhance Polymer Solar Cell Performance using Plasmonic Nanoprisms. <i>Advanced Energy Materials</i> , 2014 , 4, 1400206	21.8	106
529	Dye-Incorporated Polynaphthalenediimide Acceptor for Additive-Free High-Performance All-Polymer Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4580-4584	16.4	99
528	An Electron Acceptor with Broad Visible-NIR Absorption and Unique Solid State Packing for As-Cast High Performance Binary Organic Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1802324	15.6	99
527	PEGylation and cell imaging applications of AIE based fluorescent organic nanoparticles via ring-opening reaction. <i>Polymer Chemistry</i> , 2014 , 5, 689-693	4.9	96
526	Enhanced Hole Transportation for Inverted Tin-Based Perovskite Solar Cells with High Performance and Stability. <i>Advanced Functional Materials</i> , 2019 , 29, 1808059	15.6	93
525	Alcohol-Soluble n-Type Conjugated Polyelectrolyte as Electron Transport Layer for Polymer Solar Cells. <i>Macromolecules</i> , 2015 , 48, 5578-5586	5.5	92
524	Grain Boundary Modification via F4TCNQ To Reduce Defects of Perovskite Solar Cells with Excellent Device Performance. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1909-1916	9.5	91
523	High-Performance Semitransparent Ternary Organic Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1800627	15.6	89
522	Bio-inspired vertebral design for scalable and flexible perovskite solar cells. <i>Nature Communications</i> , 2020 , 11, 3016	17.4	86
521	A fully bio-based waterborne polyurethane dispersion from vegetable oils: From synthesis of precursors by thiol-ene reaction to study of final material. <i>Progress in Organic Coatings</i> , 2014 , 77, 53-60	4.8	86
520	Tetrafluoroquinoxaline based polymers for non-fullerene polymer solar cells with efficiency over 9%. <i>Nano Energy</i> , 2016 , 30, 312-320	17.1	86

519	Controlled grafting from poly(vinylidene fluoride) microfiltration membranes via reverse atom transfer radical polymerization and antifouling properties. <i>Polymer</i> , 2007 , 48, 7604-7613	3.9	84
518	A Facile approach to NiCoO ₂ intimately standing on nitrogen doped graphene sheets by one-step hydrothermal synthesis for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 7121-7131	13	83
517	A General Approach for Lab-to-Manufacturing Translation on Flexible Organic Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1903649	24	81
516	Nacre-inspired crystallization and elastic brick-and-mortar structure for a wearable perovskite solar module. <i>Energy and Environmental Science</i> , 2019 , 12, 979-987	35.4	77
515	Large-Scale Flexible and Highly Conductive Carbon Transparent Electrodes via Roll-to-Roll Process and Its High Performance Lab-Scale Indium Tin Oxide-Free Polymer Solar Cells. <i>Chemistry of Materials</i> , 2014 , 26, 6293-6302	9.6	76
514	Efficiency and air-stability improvement of flexible inverted polymer solar cells using ZnO/poly(ethylene glycol) hybrids as cathode buffer layers. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 5763-70	9.5	76
513	Engineering the Morphology of Carbon Materials: 2D Porous Carbon Nanosheets for High-Performance Supercapacitors. <i>ChemElectroChem</i> , 2016 , 3, 822-828	4.3	75
512	Preparation of Hollow Silica Nanospheres by Surface-Initiated Atom Transfer Radical Polymerization on Polymer Latex Templates. <i>Advanced Functional Materials</i> , 2005 , 15, 113-117	15.6	70
511	New approach to nanocomposites of polyimides containing polyhedral oligomeric silsesquioxane for dielectric applications. <i>Materials Letters</i> , 2004 , 58, 3716-3719	3.3	69
510	Mussel inspired modification of carbon nanotubes using RAFT derived stimuli-responsive polymers. <i>RSC Advances</i> , 2013 , 3, 21817	3.7	67
509	Thermal Conductivity of Methylammonium Lead Halide Perovskite Single Crystals and Thin Films: A Comparative Study. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 28306-28311	3.8	65
508	Water-Resistant and Flexible Perovskite Solar Cells via a Glued Interfacial Layer. <i>Advanced Functional Materials</i> , 2019 , 29, 1902629	15.6	64
507	Enhancing the grain size of organic halide perovskites by sulfonate-carbon nanotube incorporation in high performance perovskite solar cells. <i>Chemical Communications</i> , 2016 , 52, 5674-7	5.8	62
506	Novel approach toward poly(butylene succinate)/single-walled carbon nanotubes nanocomposites with interfacial-induced crystallization behaviors and mechanical strength. <i>Polymer</i> , 2011 , 52, 3587-3596	3.9	62
505	Indium-Free Perovskite Solar Cells Enabled by Impermeable Tin-Oxide Electron Extraction Layers. <i>Advanced Materials</i> , 2017 , 29, 1606656	24	61
504	Flexible, hole transporting layer-free and stable CH ₃ NH ₃ PbI ₃ /PC ₆₁ BM planar heterojunction perovskite solar cells. <i>Organic Electronics</i> , 2016 , 30, 281-288	3.5	60
503	Aggregation-induced emission dye based luminescent silica nanoparticles: facile preparation, biocompatibility evaluation and cell imaging applications. <i>RSC Advances</i> , 2014 , 4, 10060	3.7	60
502	High-Performance Pseudoplanar Heterojunction Ternary Organic Solar Cells with Nonfullerene Alloyed Acceptor. <i>Advanced Functional Materials</i> , 2020 , 30, 1909760	15.6	59

501	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. <i>Small</i> , 2020 , 16, e1906735	11	59
500	A comprehensive study of sulfonated carbon materials as conductive composites for polymer solar cells. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 4137-45	3.6	57
499	Stretchable Perovskite Solar Cells with Recoverable Performance. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 16602-16608	16.4	57
498	Nonhalogen Solvent-Processed Asymmetric Wide-Bandgap Polymers for Nonfullerene Organic Solar Cells with Over 10% Efficiency. <i>Advanced Functional Materials</i> , 2018 , 28, 1706517	15.6	57
497	A Terminally Tetrafluorinated Nonfullerene Acceptor for Well-Performing Alloy Ternary Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1805872	15.6	56
496	Miscibility Tuning for Optimizing Phase Separation and Vertical Distribution toward Highly Efficient Organic Solar Cells. <i>Advanced Science</i> , 2019 , 6, 1900565	13.6	56
495	Vertical Stratification Engineering for Organic Bulk-Heterojunction Devices. <i>ACS Nano</i> , 2018 , 12, 4440-4452	15.7	56
494	Large-Scale Stretchable Semiembedded Copper Nanowire Transparent Conductive Films by an Electrospinning Template. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26468-26475	9.5	55
493	Controlling Crystal Growth via an Autonomously Longitudinal Scaffold for Planar Perovskite Solar Cells. <i>Advanced Materials</i> , 2020 , 32, e2000617	24	55
492	Nickel(II) Complexes with Three-Dimensional Geometry β -Diimine Ligands: Synthesis and Catalytic Activity toward Copolymerization of Norbornene. <i>Organometallics</i> , 2013 , 32, 2291-2299	3.8	54
491	Fluorobenzotriazole (FTAZ)-Based Polymer Donor Enables Organic Solar Cells Exceeding 12% Efficiency. <i>Advanced Functional Materials</i> , 2019 , 29, 1808828	15.6	53
490	Hole transport layers for organic solar cells: recent progress and prospects. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11478-11492	13	52
489	Regulated Crystallization of Efficient and Stable Tin-Based Perovskite Solar Cells via a Self-Sealing Polymer. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 14049-14056	9.5	52
488	Controlled grafting from poly(vinylidene fluoride) films by surface-initiated reversible addition-fragmentation chain transfer polymerization. <i>Journal of Polymer Science Part A</i> , 2006 , 44, 3071-3082	3.5	52
487	Preparation and characterization of electrospun PLGA/gelatin nanofibers as a drug delivery system by emulsion electrospinning. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2013 , 24, 972-85	3.5	51
486	Self-Organized Hole Transport Layers Based on Polythiophene Diblock Copolymers for Inverted Organic Solar Cells with High Efficiency. <i>Chemistry of Materials</i> , 2013 , 25, 897-904	9.6	51
485	Structure and photoluminescence of MgAlFe ternary hydrotalcite-like layered double hydroxides. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 2222-2226	3.3	51
484	Influence of water-soluble polythiophene as an interfacial layer on the P3HT/PCBM bulk heterojunction organic photovoltaics. <i>Journal of Materials Chemistry</i> , 2011 , 21, 13780		50

483	A General Electrodeposition Strategy for Fabricating Ultrathin Nickel Cobalt Phosphate Nanosheets with Ultrahigh Capacity and Rate Performance. <i>ACS Nano</i> , 2020 , 14, 14201-14211	16.7	50
482	Fabrication of water-dispersible and biocompatible red fluorescent organic nanoparticles via PEGylation of aggregate induced emission enhancement dye and their cell imaging applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 113, 435-41	6	49
481	Nitrogen-doped porous carbon/graphene nanosheets derived from two-dimensional conjugated microporous polymer sandwiches with promising capacitive performance. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 278-285	7.8	49
480	Coaxial electrospun free-standing and mechanically stable hierarchical porous carbon nanofiber membranes for flexible supercapacitors. <i>Carbon</i> , 2020 , 160, 80-87	10.4	49
479	Hierarchical nickel cobalt sulfide nanosheet on MOF-derived carbon nanowall arrays with remarkable supercapacitive performance. <i>Carbon</i> , 2019 , 147, 146-153	10.4	48
478	Distributed Feedback Lasers Based on MAPbBr ₃ . <i>Advanced Materials Technologies</i> , 2018 , 3, 1700253	6.8	48
477	Recent progress in organic solar cells (Part I material science). <i>Science China Chemistry</i> , 2022 , 65, 224-268	7.9	48
476	Nanostructured hybrid ZnO@CdS nanowalls grown in situ for inverted polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 1018-1027	7.1	47
475	Controlled grafting of polymer brushes on poly(vinylidene fluoride) films by surface-initiated atom transfer radical polymerization. <i>Journal of Applied Polymer Science</i> , 2006 , 101, 3704-3712	2.9	47
474	Diketopyrrolopyrrole-based conjugated polymers as additives to optimize morphology for polymer solar cells. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2016 , 34, 491-504	3.5	46
473	Synthesis of transparent ZnO/PMMA nanocomposite films through free-radical copolymerization of asymmetric zinc methacrylate acetate and in-situ thermal decomposition. <i>Journal of Luminescence</i> , 2011 , 131, 1701-1706	3.8	46
472	Triple Dipole Effect from Self-Assembled Small-Molecules for High Performance Organic Photovoltaics. <i>Advanced Materials</i> , 2016 , 28, 4852-60	24	46
471	Sulfonated carbon nanotubes/sulfonated poly(ether sulfone ether ketone ketone) composites for polymer electrolyte membranes. <i>Polymers for Advanced Technologies</i> , 2011 , 22, 1747-1752	3.2	45
470	Room temperature processed polymers for high-efficient polymer solar cells with power conversion efficiency over 9%. <i>Nano Energy</i> , 2017 , 37, 32-39	17.1	44
469	Electrospinning of poly(L-lactide) nanofibers encapsulated with water-soluble fullerenes for bioimaging application. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 680-5	9.5	44
468	Revealing Morphology Evolution in Highly Efficient Bulk Heterojunction and Pseudo-Planar Heterojunction Solar Cells by Additives Treatment. <i>Advanced Energy Materials</i> , 2021 , 11, 2003390	21.8	44
467	Cerium oxide as an efficient electron extraction layer for p-i-n structured perovskite solar cells. <i>Chemical Communications</i> , 2018 , 54, 471-474	5.8	44
466	Amphiphilic Fullerenes Employed to Improve the Quality of Perovskite Films and the Stability of Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 24782-24788	9.5	43

465	Covalent Connection of Polyaniline with MoS ₂ Nanosheets toward Ultrahigh Rate Capability Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 11540-11549	8.3	43
464	CoO Supraparticle-Based Bubble Nanofiber and Bubble Nanosheet with Remarkable Electrochemical Performance. <i>Advanced Science</i> , 2019 , 6, 1900107	13.6	43
463	Electrostatic Self-Assembled Metal Oxide/Conjugated Polyelectrolytes as Electron-Transporting Layers for Inverted Solar Cells with High Efficiency. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 24804-24814	23.8	43
462	In situ nanoarchitecturing and active-site engineering toward highly efficient carbonaceous electrocatalysts. <i>Nano Energy</i> , 2019 , 59, 207-215	17.1	42
461	Photovoltaic performance enhancement of P3HT/PCBM solar cells driven by incorporation of conjugated liquid crystalline rod-coil block copolymers. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 3835-3845	7.15	42
460	Construction of facile ion and electron diffusion by hierarchical core-branch Zn substituted NiCoB nanocomposite for high-performance asymmetric supercapacitors. <i>Carbon</i> , 2019 , 153, 531-538	10.4	41
459	Toward Scalable PbS Quantum Dot Solar Cells Using a Tailored Polymeric Hole Conductor. <i>ACS Energy Letters</i> , 2019 , 4, 2850-2858	20.1	41
458	Optimization of the Power Conversion Efficiency of Room Temperature-Fabricated Polymer Solar Cells Utilizing Solution Processed Tungsten Oxide and Conjugated Polyelectrolyte as Electrode Interlayer. <i>Advanced Functional Materials</i> , 2014 , 24, 3986-3995	15.6	41
457	Hierarchical Nanosheets/Walls Structured Carbon-Coated Porous Vanadium Nitride Anodes Enable Wide-Voltage-Window Aqueous Asymmetric Supercapacitors with High Energy Density. <i>Advanced Science</i> , 2019 , 6, 1900550	13.6	40
456	Mapping Nonfullerene Acceptors with a Novel Wide Bandgap Polymer for High Performance Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1801214	21.8	40
455	Hierarchical 1D nanofiber-2D nanosheet-shaped self-standing membranes for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9161-9171	13	39
454	Low Work-function Poly(3,4-ethylenedioxyethiophene): Poly(styrene sulfonate) as Electron-transport Layer for High-efficient and Stable Polymer Solar Cells. <i>Scientific Reports</i> , 2015 , 5, 12839	4.9	39
453	Solvent-Assisted Low-Temperature Crystallization of SnO ₂ Electron-Transfer Layer for High-Efficiency Planar Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1900557	15.6	38
452	Alkylsilyl Functionalized Copolymer Donor for Annealing-Free High Performance Solar Cells with over 11% Efficiency: Crystallinity Induced Small Driving Force. <i>Advanced Functional Materials</i> , 2018 , 28, 1800606	15.6	38
451	Safe and flexible ion gel based composite electrolyte for lithium batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14132-14140	13	38
450	Universal and Versatile MoO ₃ -Based Hole Transport Layers for Efficient and Stable Polymer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 9930-9938	3.8	38
449	Efficient bulk heterojunction polymer solar cells using PEDOT/PSS doped with solution-processed MoO ₃ as anode buffer layer. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 102, 66-70	6.4	38
448	Self-Assembled Conjugated Polyelectrolyte/Inic Liquid Crystal Complex as an Interlayer for Polymer Solar Cells: Achieving Performance Enhancement via Rapid Liquid Crystal-Induced Dipole Orientation. <i>Macromolecules</i> , 2014 , 47, 1623-1632	5.5	37

- 447 Multiple drug-loaded electrospun PLGA/gelatin composite nanofibers encapsulated with mesoporous ZnO nanospheres for potential postsurgical cancer treatment. *RSC Advances*, **2014**, 4, 28011-28017
- 446 Printable and Large-Area Organic Solar Cells Enabled by a Ternary Pseudo-Planar Heterojunction Strategy. *Advanced Functional Materials*, **2020**, 30, 2003223 15.6 36
- 445 A bendable nickel oxide interfacial layer via polydopamine crosslinking for flexible perovskite solar cells. *Chemical Communications*, **2019**, 55, 3666-3669 5.8 35
- 444 Highly Efficient Flexible Polymer Solar Cells with Robust Mechanical Stability. *Advanced Science*, **2019**, 6, 1801180 13.6 35
- 443 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
- 442 Study on biodegradable aromatic/aliphatic copolyesters. *Brazilian Journal of Chemical Engineering*, **2008**, 25, 321-335 1.7 35
- 441 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
- 440 Enhanced Power-Conversion Efficiency in Inverted Bulk Heterojunction Solar Cells using Liquid-Crystal-Conjugated Polyelectrolyte Interlayer. *ACS Applied Materials & Interfaces*, **2015**, 7, 19024-33 9.5 34
- 439 Mesogens Mediated Self-Assembly in Applications of Bulk Heterojunction Solar Cells Based on a Conjugated Polymer with Narrow Band Gap. *Macromolecules*, **2011**, 44, 2698-2706 5.5 34
- 438 Preparation and optical properties of ZnO@PPEGMA nanoparticles. *Applied Surface Science*, **2009**, 255, 7158-7163 6.7 34
- 437 Synthesis and photoluminescence of Eu-doped Zn/Al layered double hydroxides. *Journal of Materials Science*, **2010**, 45, 6417-6423 4.3 34
- 436 Fluorinated Reduced Graphene Oxide as an Efficient Hole-Transport Layer for Efficient and Stable Polymer Solar Cells. *ACS Omega*, **2017**, 2, 2010-2016 3.9 33
- 435 Efficient all polymer solar cells from layer-evolved processing of a bilayer inverted structure. *Journal of Materials Chemistry C*, **2014**, 2, 416-420 7.1 33
- 434 Non-halogenated solvent-processed single-junction polymer solar cells with 9.91% efficiency and improved photostability. *Nano Energy*, **2017**, 41, 27-34 17.1 33
- 433 Electrospinning and characterization of konjac glucomannan/chitosan nanofibrous scaffolds favoring the growth of bone mesenchymal stem cells. *Carbohydrate Polymers*, **2011**, 85, 681-686 10.3 33
- 432 Low- Γ nanocomposite films based on polyimides with grafted polyhedral oligomeric silsesquioxane. *Journal of Applied Polymer Science*, **2006**, 99, 2226-2232 2.9 33
- 431 Counterion induced facile self-doping and tunable interfacial dipoles of small molecular electrolytes for efficient polymer solar cells. *Nano Energy*, **2016**, 27, 492-498 17.1 33
- 430 Antibacterial zinc oxide hybrid with gelatin coating. *Materials Science and Engineering C*, **2017**, 81, 321-326 3.3 32

429	Cooperative Assembly Donor-Acceptor System Induced by Intermolecular Hydrogen Bonds Leading to Oriented Nanomorphology for Optimized Photovoltaic Performance. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 714-721	3.8	32
428	Stable Triple Cation Perovskite Precursor for Highly Efficient Perovskite Solar Cells Enabled by Interaction with 18C6 Stabilizer. <i>Advanced Functional Materials</i> , 2020 , 30, 1908613	15.6	32
427	Engineering efficient bifunctional electrocatalysts for rechargeable zinc-air batteries by confining Fe ₃ O ₄ /Ni nanoalloys in nitrogen-doped carbon nanotube@nanosheet frameworks. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 25919-25930	13	32
426	Cross-linked graphene/carbon nanotube networks with polydopamine glue for flexible supercapacitors. <i>Composites Communications</i> , 2018 , 10, 73-80	6.7	31
425	Ordered microstructure induced by orientation behavior of liquid-crystal polythiophene for performance improvement of hybrid solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 96, 266-275	6.4	31
424	Controlling morphology and improving the photovoltaic performances of P3HT/ZnO hybrid solar cells via P3HT-b-PEO as an interfacial compatibilizer. <i>New Journal of Chemistry</i> , 2013 , 37, 236-244	3.6	31
423	Liquid Crystal Helps ZnO Nanoparticles Self-Assemble for Performance Improvement of Hybrid Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 6332-6339	3.8	31
422	Bamboo fibers @ poly(ethylene glycol)-reinforced poly(butylene succinate) biocomposites. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 2456-2466	2.9	31
421	Synthesis and Properties of Polyacetylenes Containing Terphenyl Pendent Group with Different Spacers. <i>Macromolecules</i> , 2009 , 42, 1454-1461	5.5	31
420	High-Efficiency (16.93%) Pseudo-Planar Heterojunction Organic Solar Cells Enabled by Binary Additives Strategy. <i>Advanced Functional Materials</i> , 2021 , 31, 2102291	15.6	31
419	n-Type conjugated electrolytes cathode interlayer with thickness-insensitivity for highly efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13807-13816	13	30
418	A pinecone-inspired hierarchical vertically aligned nanosheet array electrode for high-performance asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23349-23360	13	30
417	A generalized one-step in situ formation of metal sulfide/reduced graphene oxide nanosheets toward high-performance supercapacitors. <i>Science China Materials</i> , 2020 , 63, 1898-1909	7.1	30
416	Novel poly(butylene succinate-co-lactic acid) copolyesters: Synthesis, crystallization, and enzymatic degradation. <i>Polymer Degradation and Stability</i> , 2010 , 95, 1920-1927	4.7	30
415	A green route to a novel hyperbranched electrolyte interlayer for nonfullerene polymer solar cells with over 11% efficiency. <i>Chemical Communications</i> , 2018 , 54, 563-566	5.8	30
414	FeO-Encapsulating N-doped porous carbon materials as efficient oxygen reduction reaction electrocatalysts for Zn-air batteries. <i>Chemical Communications</i> , 2019 , 55, 7538-7541	5.8	29
413	Surface modifications of halloysite nanotubes with superparamagnetic Fe ₃ O ₄ nanoparticles and carbonaceous layers for efficient adsorption of dyes in water treatment. <i>Chemical Research in Chinese Universities</i> , 2014 , 30, 971-977	2.2	29
412	Design, synthesis, and properties of new biodegradable aromatic/aliphatic liquid crystalline copolyesters. <i>Biomacromolecules</i> , 2003 , 4, 974-80	6.9	29

411	Polyfluorene Electrolytes Interfacial Layer for Efficient Polymer Solar Cells: Controllably Interfacial Dipoles by Regulation of Polar Groups. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 9821-8	9.5	29
410	N-type Self-Doping of Fluorinate Conjugated Polyelectrolytes for Polymer Solar Cells: Modulation of Dipole, Morphology, and Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 1145-1153	9.5	28
409	In situ polymerization of ethylenedioxythiophene from sulfonated carbon nanotube templates: toward high efficiency ITO-free solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6645-6652	13	28
408	Miscibility Matching and Bimolecular Crystallization Affording High-Performance Ternary Nonfullerene Solar Cells. <i>Chemistry of Materials</i> , 2019 , 31, 10211-10224	9.6	28
407	Nitrogen-Doped Hierarchically Porous Carbon Materials with Enhanced Performance for Supercapacitor. <i>ChemElectroChem</i> , 2018 , 5, 515-522	4.3	28
406	Butanedithiol Solvent Additive Extracting Fullerenes from Donor Phase To Improve Performance and Photostability in Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9918-9925	9.5	27
405	Crystallization and conformation engineering of solution-processed polymer transparent electrodes with high conductivity. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 382-389	7.1	27
404	A mechanistic investigation of morphology evolution in P3HT-PCBM films induced by liquid crystalline molecules under external electric field. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 387-97	3.6	27
403	Interface-induced face-on orientation of the active layer by self-assembled diblock conjugated polyelectrolytes for efficient organic photovoltaic cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18478-18489	13	27
402	Novel controlled drug delivery system for multiple drugs based on electrospun nanofibers containing nanomicelles. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2014 , 25, 257-68	3.5	27
401	Fine dispersion and self-assembly of ZnO nanoparticles driven by P3HT-b-PEO diblocks for improvement of hybrid solar cells performance. <i>New Journal of Chemistry</i> , 2013 , 37, 195-203	3.6	27
400	Roll-to-Roll Production of Graphene Hybrid Electrodes for High-Efficiency, Flexible Organic Photoelectronics. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500445	4.6	27
399	Copolymerization of norbornene and 5-norbornene-2-yl acetate using novel bis(Eketonaphthylamino)Ni(II)/B(C6F5)3/AlEt3 catalytic system. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 3990-4000	2.5	27
398	2D Heterostructures Derived from MoS2-Templated, Cobalt-Containing Conjugated Microporous Polymer Sandwiches for the Oxygen Reduction Reaction and Electrochemical Energy Storage. <i>ChemElectroChem</i> , 2017 , 4, 709-715	4.3	26
397	Subphthalocyanine Triimides: Solution Processable Bowl-Shaped Acceptors for Bulk Heterojunction Solar Cells. <i>Organic Letters</i> , 2019 , 21, 3382-3386	6.2	26
396	Free Mesogen Assisted Assembly of the Star-shaped Liquid-crystalline Copolymer/Polyethylene Oxide Solid Electrolytes for Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2014 , 118, 33-40	6.7	26
395	Improved Glass Transition Temperature towards Thermal Stability via Thiols Solvent Additive versus DIO in Polymer Solar Cells. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1700428	4.8	26
394	Unraveling the Morphology in Solution-Processed Pseudo-Bilayer Planar Heterojunction Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26213-26221	9.5	25

393	Sequential effect and enhanced conductivity of star-shaped diblock liquid-crystalline copolymers for solid electrolytes. <i>Journal of Power Sources</i> , 2014 , 247, 786-793	8.9	25
392	Controlled Dual Drug Release and In Vitro Cytotoxicity of Electrospun Poly(lactic-co-glycolic acid) Nanofibers Encapsulated with Micelles. <i>Journal of Biomedical Nanotechnology</i> , 2015 , 11, 428-35	4	25
391	A novel approach to electrospinning of pristine and aligned MEH-PPV using binary solvents. <i>Journal of Materials Chemistry</i> , 2012 , 22, 5523		25
390	Synthesis and properties of polyacetylenes with directly attached bis(4-alkoxyphenyl)terephthalate mesogens as pendants. <i>Journal of Polymer Science Part A</i> , 2006 , 44, 2499-2509	2.5	25
389	Post-annealing to recover the reduced open-circuit voltage caused by solvent annealing in organic solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6158-6166	13	25
388	Recent Developments of Microenvironment Engineering of Single-Atom Catalysts for Oxygen Reduction toward Desired Activity and Selectivity. <i>Advanced Functional Materials</i> , 2021 , 31, 2103857	15.6	25
387	Highly and homogeneously conductive conjugated polyelectrolyte hole transport layers for efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14689-14696	13	24
386	Ternary organic solar cells: compatibility controls for morphology evolution of active layers. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 10801-10812	7.1	24
385	Vertical Distribution to Optimize Active Layer Morphology for Efficient All-Polymer Solar Cells by J71 as a Compatibilizer. <i>Macromolecules</i> , 2019 , 52, 4359-4369	5.5	24
384	In Situ Formation of ZnO in Graphene: A Facile Way To Produce a Smooth and Highly Conductive Electron Transport Layer for Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 16078-85	8.5	24
383	N-Type Alcohol-Soluble Small Molecules as an Interfacial Layer for Efficient and Stable Polymer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 25887-25897	3.8	24
382	Glycosylated aggregation induced emission dye based fluorescent organic nanoparticles: preparation and bioimaging applications. <i>RSC Advances</i> , 2014 , 4, 24189	3.7	24
381	Effective Network Formation of PEDOT by in-situ Polymerization Using Novel Organic Template and Nanocomposite Supercapacitor. <i>Electrochimica Acta</i> , 2017 , 247, 871-879	6.7	24
380	Mesogen induced self-assembly for hybrid bulk heterojunction solar cells based on a liquid crystal DA copolymer and ZnO nanocrystals. <i>Journal of Materials Chemistry</i> , 2012 , 22, 6259		24
379	Surface modification of hydroxyapatite nanoparticles by poly(l-phenylalanine) via ROP of l-phenylalanine N-carboxyanhydride (Pha-NCA). <i>Applied Surface Science</i> , 2012 , 258, 2850-2855	6.7	24
378	Photovoltaic performance enhancement in P3HT/ZnO hybrid bulk-heterojunction solar cells induced by semiconducting liquid crystal ligands. <i>Organic Electronics</i> , 2012 , 13, 2757-2762	3.5	24
377	Self-assembly of diblock polythiophenes with discotic liquid crystals on side chains for the formation of a highly ordered nanowire morphology. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 8321-8	9.5	24
376	Addition polymerization of norbornene using bis(alketoamino)nickel(II)/tris(pentafluorophenyl)borane catalytic systems. <i>Journal of Polymer Science Part A</i> , 2007 , 45, 4733-4743	2.5	24

375	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/cm ² . <i>Chemistry of Materials</i> , 2021 , 33, 430-440	9.6	24
374	Random copolymerization realized high efficient polymer solar cells with a record fill factor near 80%. <i>Nano Energy</i> , 2019 , 61, 228-235	17.1	23
373	Poly(3-butylthiophene) nanowires inducing crystallization of poly(3-hexylthiophene) for enhanced photovoltaic performance. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 809-819	7.1	23
372	Substituent effects and activation mechanism of norbornene polymerization catalyzed by three-dimensional geometry diimine palladium complexes. <i>Polymer Chemistry</i> , 2014 , 5, 1210-1218	4.9	23
371	Electrospun poly(L-lactide) nanofibers loaded with paclitaxel and water-soluble fullerenes for drug delivery and bioimaging. <i>New Journal of Chemistry</i> , 2014 , 38, 6223-6229	3.6	23
370	Ni(II) and Pd(II) complexes bearing novel bis(β-ketoamino) ligand and their catalytic activity toward copolymerization of norbornene and 5-norbornene-2-yl acetate combined with B(C ₆ F ₅) ₃ . <i>Journal of Polymer Science Part A</i> , 2011 , 49, 3304-3313	2.5	23
369	Synthesis and Helical Conformation of Novel Optically Active Liquid Crystalline Poly(p-phenylene)s Containing Cyanoterphenyl Mesogen as Pendant. <i>Macromolecules</i> , 2009 , 42, 5053-5061	5.5	23
368	In situ preparation and fluorescence quenching properties of polythiophene/ZnO nanocrystals hybrids through atom-transfer radical polymerization and hydrolysis. <i>Applied Surface Science</i> , 2010 , 256, 2948-2955	6.7	23
367	Cementitious grain-boundary passivation for flexible perovskite solar cells with superior environmental stability and mechanical robustness. <i>Science Bulletin</i> , 2021 , 66, 527-535	10.6	23
366	Obstructing interfacial reaction between NiOx and perovskite to enable efficient and stable inverted perovskite solar cells. <i>Chemical Engineering Journal</i> , 2021 , 426, 131357	14.7	23
365	Highly stable Al-doped ZnO by ligand-free synthesis as general thickness-insensitive interlayers for organic solar cells. <i>Science China Chemistry</i> , 2018 , 61, 127-134	7.9	22
364	Synergistic dispersible graphene: Sulfonated carbon nanotubes integrated with PEDOT for large-scale transparent conductive electrodes. <i>Carbon</i> , 2016 , 98, 15-23	10.4	22
363	Optical engineering of uniformly decorated graphene oxide nanoflakes via in situ growth of silver nanoparticles with enhanced plasmonic resonance. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 21069-21077	8.5	22
362	Self-assembly of discotic liquid crystal decorated ZnO nanoparticles for efficient hybrid solar cells. <i>RSC Advances</i> , 2014 , 4, 3627-3632	3.7	22
361	Interfacial Nanostructuring of ZnO Nanoparticles by Fullerene Surface Functionalization for Annealing-Free Hybrid Bulk Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 3486-3491	3.8	22
360	Photovoltaics of donor-acceptor polymers based on benzodithiophene with lateral thiophenyl and fluorinated benzothiadiazole. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 1506-1511	2.5	22
359	Hydrolytic and enzymatic degradation of liquid-crystalline aromatic/aliphatic copolyesters. <i>Biomacromolecules</i> , 2004 , 5, 11-6	6.9	22
358	Amphiphilic fullerene/ZnO hybrids as cathode buffer layers to improve charge selectivity of inverted polymer solar cells. <i>Nanoscale</i> , 2015 , 7, 9194-203	7.7	21

- 357 Ni(II) and Pd(II) complexes bearing benzocyclohexane β -ketoarylimine for copolymerization of norbornene with 5-norbornene-2-carboxylic ester. *Journal of Polymer Science Part A*, **2012**, 50, 4695-4704 2.5 21
- 356 Influences of charge of conjugated polymer electrolytes cathode interlayer for bulk-heterojunction polymer solar cells. *Organic Electronics*, **2013**, 14, 1551-1561 3.5 21
- 355 Luminescent mesogen jacketed poly(1-alkyne) bearing lateral terphenyl with hexyloxy tail. *Journal of Polymer Science Part A*, **2010**, 48, 5679-5692 2.5 21
- 354 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
- 353 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
- 352 Sulfonate Poly(aryl ether sulfone)-Modified PEDOT:PSS as Hole Transport Layer and Transparent Electrode for High Performance Polymer Solar Cells. *Journal of Physical Chemistry C*, **2015**, 119, 1943-1952 3.8 20
- 351 Let-7a suppresses macrophage infiltrations and malignant phenotype of Ewing sarcoma via STAT3/NF- κ B positive regulatory circuit. *Cancer Letters*, **2016**, 374, 192-201 9.9 20
- 350 Chiral ZnO nanoparticles for detection of dopamine. *Materials Science and Engineering C*, **2018**, 93, 739-745 4.5 20
- 349 Morphology and hydrogen-bond restricted crystallization of poly(butylene succinate)/cellulose diacetate blends. *Journal of Applied Polymer Science*, **2012**, 124, 3124-3131 2.9 20
- 348 Synthesis and properties of polymer brushes composed of poly(diphenylacetylene) main chain and poly(ethylene glycol) side chains. *European Polymer Journal*, **2008**, 44, 3732-3740 5.2 20
- 347 SURFACE MODIFICATION OF POLY(VINYLDENE FLUORIDE) FILMS BY CONTROLLED GRAFTING POLYMER BRUSHES. *Surface Review and Letters*, **2005**, 12, 709-712 1.1 20
- 346 Recent advances of computational chemistry in organic solar cell research. *Journal of Materials Chemistry C*, **2020**, 8, 15920-15939 7.1 20
- 345 Wearable Tin-Based Perovskite Solar Cells Achieved by a Crystallographic Size Effect. *Angewandte Chemie - International Edition*, **2021**, 60, 14693-14700 16.4 20
- 344 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
- 343 Construction of a hierarchical carbon coated Fe₃O₄ nanorod anode for 2.6 V aqueous asymmetric supercapacitors with ultrahigh energy density. *Journal of Materials Chemistry A*, **2019**, 7, 27313-27322 13 20
- 342 Regulation of the Polar Groups in n-Type Conjugated Polyelectrolytes as Electron Transfer Layer for Inverted Polymer Solar Cells. *Macromolecules*, **2018**, 51, 8197-8204 5.5 20
- 341 Novel Donor-Acceptor Random Copolymers Containing Phenanthrocarbazole and Diketopyrrolopyrrole for Organic Photovoltaics and the Significant Molecular Geometry Effect on Their Performance. *Journal of Physical Chemistry C*, **2014**, 118, 6038-6045 3.8 19
- 340 A Novel Thiophene Derivative-based Conjugated Polymer for Polymer Solar Cells with High Open-circuit Voltage. *Chinese Journal of Chemistry*, **2012**, 30, 2219-2224 4.9 19

339	Antimicrobial hydantoin-grafted poly(ϵ -caprolactone) by ring-opening polymerization and click chemistry. <i>Macromolecular Bioscience</i> , 2012 , 12, 1721-30	5.5	19
338	Two-Dimensional Core-Shell Porous Hybrids as Highly Efficient Catalysts for the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2016 , 128, 6972-6977	3.6	19
337	Roll-to-Roll Fabrication of Flexible Orientated Graphene Transparent Electrodes by Shear Force and One-Step Reducing Post-Treatment. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700138	6.8	18
336	Control of the oxidation level of graphene oxide for high efficiency polymer solar cells. <i>RSC Advances</i> , 2015 , 5, 49182-49187	3.7	18
335	Liquid-crystalline ionic liquids modified conductive polymers as a transparent electrode for indium-free polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22316-22324	13	18
334	Roll-To-Roll Printing of Meter-Scale Composite Transparent Electrodes with Optimized Mechanical and Optical Properties for Photoelectronics. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8917-8925	9.5	18
333	Photocrosslinkable liquid-crystalline polymers for stable photovoltaics by adjusting side-chains spacing and fullerene size to control intercalation. <i>Organic Electronics</i> , 2012 , 13, 1443-1455	3.5	18
332	Poly(N-vinylpyrrolidone)-decorated reduced graphene oxide with ZnO grown in situ as a cathode buffer layer for polymer solar cells. <i>Chemistry - A European Journal</i> , 2014 , 20, 17178-84	4.8	18
331	Microporous gel electrolytes based on amphiphilic poly(vinylidene fluoride-co-hexafluoropropylene) for lithium batteries. <i>Applied Surface Science</i> , 2012 , 258, 4983-4989	6.7	18
330	The effect of photocrosslinkable groups on thermal stability of bulk heterojunction solar cells based on donor-acceptor-conjugated polymers. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 4156-4166	2.5	18
329	Preparation and characterization of aliphatic/aromatic copolyesters based on bisphenol-A terephthalate, hexylene terephthalate and lactide moieties. <i>Reactive and Functional Polymers</i> , 2007 , 67, 396-407	4.6	18
328	Synthesis and characterization of bi-functional photorefractive polymers. <i>Polymer</i> , 2001 , 42, 1101-1107	3.9	18
327	Acetic Acid-Assisted Synergistic Modulation of Crystallization Kinetics and Inhibition of Sn ²⁺ Oxidation in Tin-Based Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 190631	15.6	18
326	Mussel-Inspired, Biomimetics-Assisted Self-Assembly of Co ₃ O ₄ on Carbon Fibers for Flexible Supercapacitors. <i>ChemElectroChem</i> , 2017 , 4, 2269-2277	4.3	17
325	Direct application of P3HT-DOPO@ZnO nanocomposites in hybrid bulk heterojunction solar cells via grafting P3HT onto ZnO nanoparticles. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 97, 64-70	6.4	17
324	Nanostructuring compatibilizers of block copolymers for organic photovoltaics. <i>Polymer International</i> , 2014 , 63, 593-606	3.3	17
323	Integration of light-harvesting complexes into the polymer bulk heterojunction P3HT/PCBM device for efficient photovoltaic cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7342		17
322	Hybrid bulk heterojunction solar cells based on the cooperative interaction of liquid crystals within quantum dots and diblock copolymers. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 11692-702	9.5	17

321	Orientation Behavior of Bulk Heterojunction Solar Cells Based on Liquid-Crystalline Polyfluorene and Fullerene. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 18001-18011	3.8	17
320	FABRICATION AND PROPERTIES OF SILICONE RUBBER/ZnO NANOCOMPOSITES VIA IN SITU SURFACE HYDROSILYLATION. <i>Surface Review and Letters</i> , 2011 , 18, 33-38	1.1	17
319	Synthesis and characterization of poly(ether sulfone ether ketone ketone) grafted poly(sulfopropyl methacrylate) for proton exchange membranes via atom transfer radical polymerization. <i>Journal of Materials Science</i> , 2010 , 45, 1610-1616	4.3	17
318	Low-Temperature-Processed WO _x as Electron Transfer Layer for Planar Perovskite Solar Cells Exceeding 20% Efficiency. <i>Solar Rrl</i> , 2020 , 4, 1900499	7.1	17
317	Covalently Sandwiching MXene by Conjugated Microporous Polymers with Excellent Stability for Supercapacitors. <i>Small Methods</i> , 2020 , 4, 2000434	12.8	17
316	3-Dimensional ZnO/CdS nanocomposite with high mobility as an efficient electron transport layer for inverted polymer solar cells. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 12175-82	3.6	17
315	Facile Approach to Perylenemonoimide with Short Side Chains for Nonfullerene Solar Cells. <i>Journal of Organic Chemistry</i> , 2017 , 82, 5926-5931	4.2	16
314	Enhanced performance and stability of p-i-n perovskite solar cells by utilizing an AIE-active cathode interlayer. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15662-15672	13	16
313	Amphiphilic fullerenes modified 1D ZnO arrayed nanorods/2D graphene hybrids as cathode buffer layers for inverted polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10890-10899	13	16
312	Pure- or mixed-solvent assisted treatment for crystallization dynamics of planar lead halide perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 155, 166-175	6.4	16
311	Versatile electron-collecting interfacial layer by in situ growth of silver nanoparticles in nonconjugated polyelectrolyte aqueous solution for polymer solar cells. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 11563-72	3.4	16
310	Versatile MoS ₂ Nanosheets in ITO-Free and Semi-transparent Polymer Power-generating Glass. <i>Scientific Reports</i> , 2015 , 5, 12161	4.9	16
309	Hairy polymeric nanocapsules with pH-responsive shell and thermoresponsive brushes: Tunable permeability for controlled release of water-soluble drugs. <i>Journal of Polymer Science Part A</i> , 2014 , 52, 2202-2216	2.5	16
308	Can morphology tailoring based on functionalized fullerene nanostructures improve the performance of organic solar cells?. <i>Journal of Materials Chemistry</i> , 2012 , 22, 18768		16
307	Antimicrobial hydantoin-containing polyesters. <i>Macromolecular Bioscience</i> , 2012 , 12, 1068-76	5.5	16
306	Bilayer porous scaffold based on poly(ϵ -caprolactone) nanofibrous membrane and gelatin sponge for favoring cell proliferation. <i>Applied Surface Science</i> , 2011 , 258, 1670-1676	6.7	16
305	Stable crosslinked vinyl-addition-type polynorbornene graft copolymer proton-exchange membranes. <i>Journal of Applied Polymer Science</i> , 2011 , 121, 1166-1175	2.9	16
304	Thermotropic aromatic/lactide copolyesters with solubilizing side chains on aromatic rings. <i>Polymer</i> , 2003 , 44, 5513-5520	3.9	16

303	Fluorinated polyimides grafted with poly(ethylene glycol) side chains by the RAFT-mediated process and their membranes. <i>Materials Chemistry and Physics</i> , 2005 , 94, 195-201	4.4	16
302	A Biomimetic Self-Shield Interface for Flexible Perovskite Solar Cells with Negligible Lead Leakage. <i>Advanced Functional Materials</i> , 2016 , 2106460	15.6	16
301	Coupling of EDLC and the reversible redox reaction: oxygen functionalized porous carbon nanosheets for zinc-ion hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 15404-15414	13	16
300	Self-encapsulated semi-transparent perovskite solar cells with water-soaked stability and metal-free electrode. <i>Organic Electronics</i> , 2017 , 48, 308-313	3.5	15
299	Novel Copolymers Based Tetrafluorobenzene and Difluorobenzothiadiazole for Organic Solar Cells with Prominent Open Circuit Voltage and Stability. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1600556	4.8	15
298	Double Acceptor Block-Containing Copolymers with Deep HOMO Levels for Organic Solar Cells: Adjusting Carboxylate Substituent Position for Planarity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15853-15860	9.5	15
297	Poly(3-butylthiophene) Inducing Crystallization of Small Molecule Donor for Enhanced Photovoltaic Performance. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 23310-23318	3.8	15
296	Thioether Bond Modification Enables Boosted Photovoltaic Performance of Nonfullerene Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 32218-32224	9.5	15
295	Self-assembled buffer layer from conjugated diblock copolymers with ethyleneoxide side chains for high efficiency polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8054-8064	7.1	15
294	Novel Ni and Pd(benzocyclohexan-ke-tonaphthylimino) ₂ complexes for copolymerization of norbornene with octene. <i>Journal of Applied Polymer Science</i> , 2013 , 128, 216-223	2.9	15
293	Hybrid bulk heterojunction solar cells based on poly(3-hexylthiophene) and ZnO nanoparticles modified by side-chain functional polythiophenes. <i>Thin Solid Films</i> , 2012 , 526, 120-126	2.2	15
292	Solid-state supramolecular chemistry of zinc tetraphenylporphyrin and zinc phthalocyanine with bis(pyridyl) ligands. <i>Journal of Molecular Structure</i> , 2011 , 1002, 145-150	3.4	15
291	Copolymerization of norbornene and n-butyl methacrylate catalyzed by bis-(ketoamino)nickel(II)/B(C ₆ F ₅) ₃ catalytic system. <i>Polymer Bulletin</i> , 2011 , 66, 1149-1161	2.4	15
290	Wide Voltage Aqueous Asymmetric Supercapacitors: Advances, Strategies, and Challenges. <i>Advanced Functional Materials</i> , 2017 , 2108107	15.6	15
289	Understanding the Mechanism between Antisolvent Dripping and Additive Doping Strategies on the Passivation Effects in Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 56151-56160	9.5	15
288	High conductive PEDOT via post-treatment by halobenzoic for high-efficiency ITO-free and transporting layer-free organic solar cells. <i>Organic Electronics</i> , 2016 , 33, 316-323	3.5	15
287	A1-A2 Type Wide Bandgap Polymers for High-Performance Polymer Solar Cells: Energy Loss and Morphology. <i>Solar Rrl</i> , 2019 , 3, 1800291	7.1	15
286	Novel polymer acceptors achieving 10.18% efficiency for all-polymer solar cells. <i>Journal of Energy Chemistry</i> , 2021 , 53, 63-68	12	15

285	A facile approach towards chemical modification of Ag nanowires by PEDOT as a transparent electrode for organic solar cells. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 312-319	7.1	15
284	Elimination of Interfacial Lattice Mismatch and Detrimental Reaction by Self-Assembled Layer Dual-Passivation for Efficient and Stable Inverted Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2022 , 12, 2103674	21.8	15
283	A novel alkylsilyl-fused copolymer-based non-fullerene solar cell with over 12% efficiency. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4145-4152	13	14
282	Facile and Scalable Fabrication of Nitrogen-Doped Porous Carbon Nanosheets for Capacitive Energy Storage with Ultrahigh Energy Density. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20029-20036	20.5	14
281	Stabilized and Operational PbI ₂ Precursor Ink for Large-Scale Perovskite Solar Cells via Two-Step Blade-Coating. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 8129-8139	3.8	14
280	An Effective Method for Recovering Nonradiative Recombination Loss in Scalable Organic Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 2000417	15.6	14
279	An efficient and stable tin-based perovskite solar cell passivated by aminoguanidine hydrochloride. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 7786-7792	7.1	14
278	In situ implanting carbon nanotube-gold nanoparticles into ZnO as efficient nanohybrid cathode buffer layer for polymer solar cells. <i>Organic Electronics</i> , 2016 , 38, 350-356	3.5	14
277	Diketopyrrolopyrrole-based liquid crystalline conjugated donor-acceptor copolymers with reduced band gap for polymer solar cells. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 258-266	2.5	14
276	A novel planar D-A alternating copolymer with D-A integrated structures exhibiting H-aggregate behaviors for polymer solar cells. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 624-634	2.5	14
275	A facile in situ approach to ion gel based polymer electrolytes for flexible lithium batteries. <i>RSC Advances</i> , 2017 , 7, 54391-54398	3.7	14
274	Copolymerization of norbornene with methoxycarbonylnorbornene catalyzed by Ni{CF ₃ C(O)CHC[N(naphthyl)]CH ₃ } ₂ /B(C ₆ F ₅) ₃ catalytic system and good processability for Dry/Wet phase inversion and electrospinning technique. <i>Journal of Polymer Science Part A</i> , 2011 , 49, 4425-4432	2.5	14
273	GRAFTING POLY(N-ISOPROPYL ACRYLAMIDE) FROM POLY(VINYLDENE FLUORIDE) MIROFILTRATION, MEMBRANES VIA DIRECT SURFACE-INITIATED, ATOM TRANSFER RADICAL POLYMERIZATION, AND TEMPERATURE SENSITIVITY. <i>Surface Review and Letters</i> , 2009 , 16, 111-121	1.1	14
272	Synthesis and properties of polyacetylenes containing bis(4-alkylphenyl)terephthalate as pendant and methyleneoxy as spacer. <i>Synthetic Metals</i> , 2009 , 159, 1649-1656	3.6	14
271	Enhancement of the ultraviolet emission of ZnO nanorods by terphenyl liquid-crystalline ligands modification. <i>Applied Surface Science</i> , 2011 , 257, 8788-8793	6.7	14
270	Optimizing Microenvironment of Asymmetric N,S-Coordinated Single-Atom Fe via Axial Fifth Coordination toward Efficient Oxygen Electroreduction. <i>Small</i> , 2021 , e2105387	11	14
269	Manipulating the Interlayer Spacing of 3D MXenes with Improved Stability and Zinc-Ion Storage Capability. <i>Advanced Functional Materials</i> , 2109524	15.6	14
268	High-Performance Polymer Solar Cells Realized by Regulating the Surface Properties of PEDOT:PSS Interlayer from Ionic Liquids. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 27018-27025	9.5	14

- 267 Introducing an identical benzodithiophene donor unit for polymer donors and small-molecule acceptors to unveil the relationship between the molecular structure and photovoltaic performance of non-fullerene organic solar cells. *Journal of Materials Chemistry A*, **2019**, 7, 26351-26357 13 14
- 266 Pyrolysis-free polymer-based oxygen electrocatalysts. *Energy and Environmental Science*, **2021**, 14, 2789-2808 13 14
- 265 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
- 264 Synergistic effect of processing additives and thermal annealing in organic solar cells: the "Morphology of Magic". *Physical Chemistry Chemical Physics*, **2017**, 19, 10581-10589 3.6 13
- 263 Solution-processed small molecules based on benzodithiophene and difluorobenzothiadiazole for inverted organic solar cells. *Polymer Chemistry*, **2015**, 6, 7726-7736 4.9 13
- 262 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
- 261 Surface treatment by binary solvents induces the crystallization of a small molecular donor for enhanced photovoltaic performance. *Physical Chemistry Chemical Physics*, **2016**, 18, 735-42 3.6 13
- 260 Hybrid Network Sulfonated Polynorbornene/Silica Membranes with Enhanced Proton Conductivity by Doped Phosphotungstic Acid. *Fuel Cells*, **2014**, 14, 26-34 2.9 13
- 259 Self-assembled mesogens modified fullerene for efficiently stable bulk heterojunction solar cells. *Solar Energy Materials and Solar Cells*, **2012**, 97, 34-42 6.4 13
- 258 Photocrosslinkable liquid-crystalline polythiophenes with oriented nanostructure and stabilization for photovoltaics. *Organic Electronics*, **2012**, 13, 104-113 3.5 13
- 257 Origin of the efficiency improvement in pre-annealed P3HT/PCBM solar cells with LiF/Al electrodes. *Chemical Physics Letters*, **2012**, 553, 36-40 2.5 13
- 256 Crystallization, morphology, and mechanical properties of poly(butylene succinate)/poly(ethylene oxide)-polyhedral oligomeric silsesquioxane nanocomposites. *Polymer Engineering and Science*, **2012**, 52, 2063-2070 2.3 13
- 255 Fluorescence of Mg-Al-Eu ternary layered double hydroxide sensitivity to phenylalanine. *Journal of Fluorescence*, **2011**, 21, 1677-82 2.4 13
- 254 Mechanical and thermal properties of polypeptide modified hydroxyapatite/poly(L-lactide) nanocomposites. *Science China Chemistry*, **2011**, 54, 431-437 7.9 13
- 253 Synthesis of novel biodegradable poly(butylene succinate) copolyesters composing of isosorbide and poly(ethylene glycol). *Journal of Applied Polymer Science*, **2011**, 121, 2291-2300 2.9 13
- 252 A novel type of optically active helical liquid crystalline polymers: Synthesis and characterization of poly(p-phenylene)s containing terphenyl mesogen with different terminal groups. *Journal of Polymer Science Part A*, **2009**, 47, 4723-4735 2.5 13
- 251 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
- 250 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

249	Fluorine-induced self-doping and spatial conformation in alcohol-soluble interlayers for highly-efficient polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 423-433	13	13
248	A Highly Tolerant Printing for Scalable and Flexible Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2107726	15.6	13
247	Electroless deposition of silver grids flexible transparent electrode integrated by ultra-violet nanoimprint lithography. <i>Organic Electronics</i> , 2019 , 75, 105408	3.5	12
246	Tunable size and sensitization of ZnO nanoarrays as electron transport layers for enhancing photocurrent of photovoltaic devices. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 828-835	7.1	12
245	Polyolefin Elastomer as the Anode Interfacial Layer for Improved Mechanical and Air Stabilities in Nonfullerene Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 10706-10716	9.5	12
244	A homogeneous ethanedithiol doped ZnO electron transporting layer for polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 8738-8744	7.1	12
243	Silver Mesh Electrodes via Electroless Deposition-Coupled Inkjet-Printing Mask Technology for Flexible Polymer Solar Cells. <i>Langmuir</i> , 2019 , 35, 9713-9720	4	12
242	In Situ Fabricating One-Dimensional Donor-Acceptor Core-Shell Hybrid Nanobeams Network Driven by Self-Assembly of Diblock Copolythiophenes. <i>Macromolecules</i> , 2014 , 47, 1757-1767	5.5	12
241	Inter-crosslinking through both donor and acceptor with unsaturated bonds for highly efficient and stable organic solar cells. <i>Polymer Chemistry</i> , 2013 , 4, 5637	4.9	12
240	Understanding the mechanism of poly(3-hexylthiophene)-b-poly(4-vinylpyridine) as a nanostructuring compatibilizer for improving the performance of poly(3-hexylthiophene)/ZnO-based hybrid solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 10881	13	12
239	Mesogen-controlled ion channel of star-shaped hard-soft block copolymers for solid-state lithium-ion battery. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 4341-4350	2.5	12
238	Enhanced Photoluminescence, Mesomorphism and Conformation of Liquid-Crystalline Conjugated Polymers with Terphenyl Mesogen Pendants. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 24-41	2.6	12
237	Polymerization of styrene using bis(ketoamino)nickel(II)/methylaluminoxane catalytic systems. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 500-509	2.9	12
236	Silicon Naphthalocyanine Tetraimides: Cathode Interlayer Materials for Highly Efficient Organic Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19053-19057	16.4	12
235	Rapid Microwave-Assisted Synthesis of SnO ₂ Quantum Dots for Efficient Planar Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 1887-1893	6.1	12
234	Recent progress in organic solar cells (Part II device engineering). <i>Science China Chemistry</i> ,	7.9	12
233	Multi-Chlorine-Substituted Self-Assembled Molecules As Anode Interlayers: Tuning Surface Properties and Humidity Stability for Organic Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9204-9212	9.5	11
232	Improvement in the Efficiency of Alkylsilyl Functionalized Copolymer for Polymer Solar Cells: Face-On Orientation Enhanced by Random Copolymerization. <i>Solar Rrl</i> , 2019 , 3, 1900122	7.1	11

231	One-dimensional graphene nanoribbons hybridized with carbon nanotubes as cathode and anode interfacial layers for high performance solar cells. <i>RSC Advances</i> , 2015 , 5, 49614-49622	3.7	11
230	Post-Treatment-Free Main Chain Donor and Side Chain Acceptor (D-s-A) Copolymer for Efficient Nonfullerene Solar Cells with a Small Voltage Loss. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1700706	4.8	11
229	Amphiphilic fullerene derivative as effective interfacial layer for inverted polymer solar cells. <i>Organic Electronics</i> , 2016 , 37, 35-41	3.5	11
228	Large-scale ultra-adhesive and mechanically flexible silver grids transparent electrodes by solution process. <i>Organic Electronics</i> , 2018 , 61, 296-303	3.5	11
227	Performance enhancement of bulk heterojunction solar cells with direct growth of CdS-cluster-decorated graphene nanosheets. <i>Chemistry - A European Journal</i> , 2014 , 20, 6010-8	4.8	11
226	N,O-chelating bidentate Ni (II) and Pd (II) complexes for copolymerization of norbornene and norbornene ester. <i>Journal of Organometallic Chemistry</i> , 2014 , 752, 100-108	2.3	11
225	Enhanced performance for organic bulk heterojunction solar cells by cooperative assembly of ter(ethylene oxide) pendants. <i>Polymer Chemistry</i> , 2014 , 5, 4480-4487	4.9	11
224	Cross-linked zwitterionic polyelectrolytes based on sulfonated poly(ether sulfone) with high proton conductivity for direct methanol fuel cells. <i>Journal of Power Sources</i> , 2012 , 212, 13-21	8.9	11
223	Nickel(II) complexes bearing the bis(β-ketoamino) ligand for the copolymerization of norbornene with a higher 1-alkene. <i>Journal of Applied Polymer Science</i> , 2012 , 124, 1323-1332	2.9	11
222	Novel photovoltaic donor 1β-acceptor/donor 2β-acceptor terpolymers with tunable energy levels based on a difluorinated benzothiadiazole acceptor. <i>RSC Advances</i> , 2015 , 5, 12087-12093	3.7	11
221	Homo- and copolymerization of norbornene and 5-norbornene-2-yl acetate with bis-(β-ketonaphthylamino)palladium(II)/B(C6F5)3 catalytic system. <i>Polymers for Advanced Technologies</i> , 2012 , 23, 483-490	3.2	11
220	Crystallization behavior and mechanical strength of poly(butylene succinate-co-ethylene glycol)-based nanocomposites using functionalized multiwalled carbon nanotubes. <i>Polymer Engineering and Science</i> , 2012 , 52, 2506-2517	2.3	11
219	Controlled release of brefeldin A from electrospun PEG-PLLA nanofibers and their in vitro antitumor activity against HepG2 cells. <i>Materials Science and Engineering C</i> , 2013 , 33, 2513-8	8.3	11
218	Preparation of Nanosilica/Polynorbornene Nanocomposite by Covalently Immobilized Silica-Supported Acetylacetonate Palladium(II) Dichloride Catalyst. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 2378-2388	2.6	11
217	Photoluminescence of Eu-doped ZnAl-LDH depending on phase transitions caused by annealing temperatures. <i>Journal of Luminescence</i> , 2011 , 131, 701-704	3.8	11
216	Thermotropic Aromatic/Lactide Copolyesters with Lateral Methoxyethyleneoxy Substituents. <i>Chemistry of Materials</i> , 2003 , 15, 694-698	9.6	11
215	Novel Narrow Bandgap Terpolymer Donors Enables Record Performance for Semitransparent Organic Solar Cells Based on All-Narrow Bandgap Semiconductors. <i>Advanced Functional Materials</i> , 2018 , 28, 170634	15.6	11
214	Non-halogenated-solvent-processed highly efficient organic solar cells with a record open circuit voltage enabled by noncovalently locked novel polymer donors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 27394-27402	13	11

213	Bithiazole-based copolymer with deep HOMO level and noncovalent conformational lock for organic photovoltaics. <i>Organic Electronics</i> , 2019 , 64, 110-116	3.5	11
212	"Double-Acceptor-Type" Random Conjugated Terpolymer Donors for Additive-Free Non-Fullerene Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 20741-20749	9.5	11
211	Uncovering the Mechanism of Poly(ionic-liquid)s Multiple Inhibition of Ion Migration for Efficient and Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2103652	21.8	11
210	Additive-free non-fullerene organic solar cells with random copolymers as donors over 9% power conversion efficiency. <i>Chinese Chemical Letters</i> , 2019 , 30, 1161-1167	8.1	10
209	A rational comparison of the effects of halogen atoms incorporated into the polymer donors on the performance of polymer solar cells. <i>Organic Electronics</i> , 2019 , 70, 86-92	3.5	10
208	A Versatile Buffer Layer for Polymer Solar Cells: Rendering Surface Potential by Regulating Dipole. <i>Advanced Functional Materials</i> , 2015 , 25, 3164-3171	15.6	10
207	Semi-perfluoroalkylated perylene diimides for conjugated polymers with high molecular weight and high electron mobility. <i>Journal of Polymer Science Part A</i> , 2018 , 56, 116-124	2.5	10
206	Direct anisotropic growth of CdS nanocrystals in thermotropic liquid crystal templates for heterojunction optoelectronics. <i>Chemistry - A European Journal</i> , 2014 , 20, 11488-95	4.8	10
205	Solution processed and self-assembled polymerizable fullerenes/metal oxide as an interlayer for high efficient inverted polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 10282-10290	7.1	10
204	Crosslinked electrolytes based on poly(butoxymethylenenorbornene) for proton exchange membrane. <i>Journal of Applied Polymer Science</i> , 2012 , 123, 3225-3233	2.9	10
203	A round robin study of polymer solar cells and small modules across China. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 117, 382-389	6.4	10
202	Experimental Investigation and Theoretical Calculation of Molecular Architectures on Carbazole for Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 9581-9589	3.8	10
201	Novel phenanthrocarbazole based donor-acceptor random and alternating copolymers for photovoltaics. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 4885-4893	2.5	10
200	An optimized nonlinear optical chromophore in a low-glass-transition-temperature photorefractive polymer. <i>Journal Physics D: Applied Physics</i> , 1998 , 31, 2245-2248	3	10
199	Atomic Layer Deposition of Metal Oxides in Perovskite Solar Cells: Present and Future. <i>Small Methods</i> , 2020 , 4, 2000588	12.8	10
198	Nondestructive Transfer Strategy for High-Efficiency Flexible Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47003-47007	9.5	10
197	Single-strand and ladder-type polymeric acceptors based on regioisomerically-pure perylene diimides towards all-polymer solar cells. <i>Polymer</i> , 2019 , 162, 108-115	3.9	10
196	Tremendously enhanced photocurrent enabled by triplet-triplet annihilation up-conversion for high-performance perovskite solar cells. <i>Energy and Environmental Science</i> , 2021 , 14, 3532-3541	35.4	10

195	Self-doped polymer with fluorinated phenylene as hole transport layer for efficient polymer solar cells. <i>Organic Electronics</i> , 2018 , 61, 207-214	3.5	10
194	Random copolymers containing tetrafluorophenylene unit with deep HOMO energy levels for solar cell applications. <i>Synthetic Metals</i> , 2017 , 226, 71-79	3.6	9
193	Seleno twisted benzodiperylene diimides: facile synthesis and excellent electron acceptors for additive-free organic solar cells. <i>Chemical Communications</i> , 2019 , 55, 703-706	5.8	9
192	Morphological optimization by rational matching of the donor and acceptor boosts the efficiency of alkylsilyl fused ring-based polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4847-4854	13	9
191	Tuning joint sequence for donor-acceptor polymers based on fluorinated benzothiadiazole with thiophene/furan bridged structures. <i>Polymer</i> , 2015 , 78, 154-160	3.9	9
190	Printable Hole Transport Layer for 1.0 cm Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 52028-52037	9.5	9
189	Dye-Incorporated Polynaphthalenediimide Acceptor for Additive-Free High-Performance All-Polymer Solar Cells. <i>Angewandte Chemie</i> , 2018 , 130, 4670-4674	3.6	9
188	Facile fabrication of thermally responsive Pluronic F127-based nanocapsules for controlled release of doxorubicin hydrochloride. <i>Colloid and Polymer Science</i> , 2014 , 292, 1521-1530	2.4	9
187	Approach to a block polymer precursor from poly(3-hexylthiophene) nitroxide-mediated in situ polymerization for stabilization of poly(3-hexylthiophene)/ZnO hybrid solar cells. <i>Thin Solid Films</i> , 2012 , 520, 6299-6306	2.2	9
186	Donor-acceptor-integrated conjugated polymers based on carbazole[3,4-c:5,6-c']bis[1,2,5]thiadiazole with tight π -stacking for photovoltaics. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 565-574	2.5	9
185	Tuning the photovoltaic parameters of thiophene-linked donor-acceptor liquid crystalline copolymers for organic photovoltaics. <i>Polymer Chemistry</i> , 2012 , 3, 710	4.9	9
184	Sulfonated copoly(norbornene)s bearing sultone pendant groups and application as proton exchange membranes candidates. <i>Journal of Polymer Research</i> , 2012 , 19, 1	2.7	9
183	Vinyl-addition copolymerization of norbornene and polar norbornene derivatives using novel bis(alkoxyamino)Ni(II)/B(C ₆ F ₅) ₃ /AlEt ₃ catalytic systems. <i>Journal of Applied Polymer Science</i> , 2011 , 120, 2008-2016	2.9	9
182	Preparation and biodegradation of copolyesters based on poly(ethylene terephthalate) and poly(ethylene glycol)/oligo(lactic acid) by transesterification. <i>Polymer Engineering and Science</i> , 2010 , 50, 76-83	2.3	9
181	Facilely dispersible magnetic nanoparticles prepared by a surface-initiated atom transfer radical polymerization. <i>Materials Letters</i> , 2008 , 62, 4542-4544	3.3	9
180	Synthesis of Aliphatic-Aromatic Copolyesters by a Melting Bulk Reaction Between Poly(butylene terephthalate) and DL-Oligo(lactic acid). <i>High Performance Polymers</i> , 2008 , 20, 166-184	1.6	9
179	Preparing polymer brushes on poly(vinylidene fluoride) films by free radical polymerization. <i>Journal of Applied Polymer Science</i> , 2006 , 101, 857-862	2.9	9
178	Inhibiting excessive molecular aggregation to achieve highly efficient and stabilized organic solar cells by introducing a star-shaped nitrogen heterocyclic-ring acceptor. <i>Energy and Environmental Science</i> ,	35.4	9

177	Flexible perovskite solar cells: device design and perspective. <i>Flexible and Printed Electronics</i> , 2020 , 5, 013002	3.1	9
176	A non-wetting and conductive polyethylene dioxothiophene hole transport layer for scalable and flexible perovskite solar cells. <i>Science China Chemistry</i> , 2021 , 64, 834-843	7.9	9
175	Current Development toward Commercialization of Metal-Halide Perovskite Photovoltaics. <i>Advanced Optical Materials</i> , 2021 , 9, 2100390	8.1	9
174	Structural similarity induced improvement in the performance of organic solar cells based on novel terpolymer donors. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9238-9247	13	9
173	Molecular crowding agents engineered to make bioinspired electrolytes for high-voltage aqueous supercapacitors. <i>EScience</i> , 2021 , 1, 83-83		9
172	Reducing Photovoltaic Property Loss of Organic Solar Cells in Blade-Coating by Optimizing Micro-Nanomorphology via Nonhalogenated Solvent. <i>Advanced Energy Materials</i> , 2200165	21.8	9
171	Effect of substituents of twisted benzodiperylene diimides on non-fullerene solar cells. <i>Organic Electronics</i> , 2017 , 47, 72-78	3.5	8
170	Incorporation of two electron acceptors to improve the electron mobility and stability of perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 8344-8349	7.1	8
169	Interfacial engineering of ZnO nanoarrays as electron transport layer for polymer solar cells. <i>Organic Electronics</i> , 2015 , 26, 487-494	3.5	8
168	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. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020 , 38, 797-805	3.5	8
167	Two-Dimension Conjugated Acceptors Based on Benzodi(cyclopentadithiophene) Core with Thiophene-Fused Ending Group for Efficient Polymer Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 2000071	7.1	8
166	Exploring Overall Photoelectric Applications by Organic Materials Containing Symmetric Donor Isomers. <i>Chemistry of Materials</i> , 2019 , 31, 8810-8819	9.6	8
165	Cooperative assembly of pyrene-functionalized donor/acceptor blend for ordered nanomorphology by intermolecular noncovalent π - π interactions. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 8115-23	9.5	8
164	Hybrid polyelectrolytes based on stable sulfonated polynorbornene with higher proton conductivity and lower methanol permeability. <i>Journal of Power Sources</i> , 2013 , 242, 725-731	8.9	8
163	Photoluminescent, liquid-crystalline, and electrochemical properties of para-phenylene-based alternating conjugated copolymers. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 434-442	2.5	8
162	A novel effective electro-optical chromophore for the photorefractive performance in poly(N-vinylcarbazole) based composite. <i>Solid State Communications</i> , 1998 , 106, 299-302	1.6	8
161	Bi-functional host polymer based low glass transition temperature photorefractive composite. <i>Solid State Communications</i> , 1998 , 108, 295-299	1.6	8
160	Melting bulk reaction between poly(butylene terephthalate) and poly(ethylene glycol)/DL-oligo(lactic acid). <i>Journal of Applied Polymer Science</i> , 2008 , 108, 2171-2179	2.9	8

159	Preparing polymer brushes on polytetrafluoroethylene films by free radical polymerization. <i>Applied Surface Science</i> , 2006 , 253, 983-988	6.7	8
158	Photorefractive material based on a polymer containing photoconductors and nonlinear chromophores. <i>Optics Communications</i> , 2003 , 228, 341-348	2	8
157	Synthesis and characterization of photorefractive materials based on polymers containing photoconductors and nonlinear chromophores. <i>Materials Letters</i> , 2003 , 57, 4372-4377	3.3	8
156	Printable and stable all-polymer solar cells based on non-conjugated polymer acceptors with excellent mechanical robustness. <i>Science China Chemistry</i> , 2021 , 1	7.9	8
155	Theoretical Study of Excited State Charge Transfer Characteristics based on ADA and ADA?DA Type Nonfullerene Acceptors. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 10250-10259	3.8	8
154	Versatile Molybdenum Isopropoxide for Efficient Mesoporous Perovskite Solar Cells: Simultaneously Optimized Morphology and Interfacial Engineering. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 15089-15095	3.8	8
153	Crystallization and Optical Compensation by Fluorinated Rod Liquid Crystals for Ternary Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 18462-18472	3.8	8
152	Realizing high-performance organic solar cells through precise control of HOMO driving force based on ternary alloy strategy. <i>Journal of Energy Chemistry</i> , 2022 , 65, 133-140	12	8
151	Optimization of perovskite by 3D twisted diketopyrrolopyrrole for efficient perovskite solar cells. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1179-1184	7.8	7
150	Perovskite Solar Cells: High-Performance Perovskite Solar Cells with Excellent Humidity and Thermo-Stability via Fluorinated Perylenediimide (Adv. Energy Mater. 18/2019). <i>Advanced Energy Materials</i> , 2019 , 9, 1970064	21.8	7
149	High charge mobility polymers based on a new di(thiophen-2-yl)thieno[3,2-b]thiophene for transistors and solar cells. <i>Polymer Chemistry</i> , 2015 , 6, 7684-7692	4.9	7
148	Alternative alcohol-soluble conjugated small molecule electrolytes for high-efficiency inverted polymer solar cells. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 3637-46	3.6	7
147	Alcohol-soluble interfacial fluorenes for inverted polymer solar cells: sequence induced spatial conformation dipole moment. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 2219-29	3.6	7
146	Observations of energy transfer and anisotropic behavior in ZnO nanoparticles surface-modified by liquid-crystalline ligands. <i>Journal of Luminescence</i> , 2012 , 132, 2114-2121	3.8	7
145	Characterization of the mechanical properties, crystallization, and enzymatic degradation behavior of poly(butylene succinate-co-ethyleneoxide-co-DL-lactide) copolyesters. <i>Journal of Applied Polymer Science</i> , 2012 , 123, 2272-2282	2.9	7
144	Novel Donor-Acceptor Copolymers Based on Dithienosilole and Ketone Modified Thieno[3,4-b]thiophene for Photovoltaic Application. <i>Chinese Journal of Chemistry</i> , 2013 , 31, 1455-1462	4.9	7
143	Modulation of the molecular geometry of carbazolebis(thiadiazole)-based conjugated polymers for photovoltaic applications. <i>Polymer Chemistry</i> , 2013 , 4, 2480	4.9	7
142	Investigation of supramolecular interactions between liquid crystals and PCBM for improved morphological stability in solar cells. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 683-692	7.8	7

141	Homogeneous Cu ₂ ZnSnSe ₄ nanocrystals/graphene oxide nanocomposites as hole transport layer for polymer solar cells. <i>Chemical Physics Letters</i> , 2015 , 622, 1-8	2.5	7
140	Synthesis of thienoselenadiazole-containing conjugated copolymers and their application in polymer solar cells. <i>Polymer Journal</i> , 2012 , 44, 978-981	2.7	7
139	Preparation and hydrolytic degradation of poly(hexylene terephthalate-co-lactide) co-polyesters from melting polycondensation. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2009 , 20, 99-114	3.5	7
138	Preparation of silica hollow fibers by surface-initiated atom transfer radical polymerization from electrospun fiber templates. <i>Materials Letters</i> , 2009 , 63, 1803-1806	3.3	7
137	Synthesis and properties of liquid crystalline conjugated disubstituted polyacetylene containing cyanoterphenyl mesogenic pendant. <i>Synthetic Metals</i> , 2009 , 159, 576-582	3.6	7
136	Effects of substitution and terminal groups for liquid-crystallinity enhanced luminescence of disubstituted polyacetylenes carrying chromophoric terphenyl pendants. <i>Science China Chemistry</i> , 2010 , 53, 1302-1315	7.9	7
135	Stably dispersible P3HT/ZnO nanocomposites with tunable luminescence by in-situ hydrolysis and copolymerization of zinc methacrylate. <i>Journal of Luminescence</i> , 2010 , 130, 2332-2338	3.8	7
134	Nanoporous SiLK Dielectric Films Prepared from Free-Radical Graft Polymerization and Thermolysis. <i>Macromolecular Chemistry and Physics</i> , 2005 , 206, 2483-2489	2.6	7
133	Electrostrictive behavior observed in a low glass-transition temperature photorefractive polymeric composite during a two-beam coupling experiment. <i>Applied Physics Letters</i> , 1998 , 72, 2939-2941	3.4	7
132	All-Green Solvent-Processed Planar Heterojunction Organic Solar Cells with Outstanding Power Conversion Efficiency of 16%. <i>Advanced Functional Materials</i> , 2107567	15.6	7
131	Directional Crystallization by Floating Self-Assembly for Efficient and Stable Tin-based Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2021 , 33, 4362-4372	9.6	7
130	Bending-stability Interfacial Layer as Dual Electron Transport Layer for Flexible Organic Photovoltaics. <i>Chinese Journal of Polymer Science (English Edition)</i> , 1	3.5	7
129	Spontaneous Formation of Upper Gradient 2D Structure for Efficient and Stable Quasi-2D Perovskites. <i>Advanced Materials</i> , 2021 , 33, e2101823	24	7
128	Fast assembly of MXene hydrogels by interfacial electrostatic interaction for supercapacitors. <i>Chemical Communications</i> , 2021 , 57, 10731-10734	5.8	7
127	A Bionic Interface to Suppressing the Coffee-ring Effect for Reliable and Flexible Perovskite Modules with a near 90% Yield Rate.. <i>Advanced Materials</i> , 2022 , e2201840	24	7
126	Thick polyfluorene-based polyelectrolytes realized by regulation of conjugated backbone as cathode interface layers for efficient polymer solar cells. <i>Journal of Power Sources</i> , 2019 , 423, 26-33	8.9	6
125	Formation of cathode buffer layer by surface segregation of fluoroalkyl-modified ZnO for polymer solar cells. <i>RSC Advances</i> , 2015 , 5, 23213-23223	3.7	6
124	Reducing Energy Loss and Morphology Optimization Manipulated by Molecular Geometry Engineering for Hetero-junction Organic Solar Cells. <i>Chinese Journal of Chemistry</i> , 2020 , 38, 1553-1559	4.9	6

- 123 Conjugated polymers based on 1,8-naphthalene monoimide with high electron mobility. *Journal of Polymer Science Part A*, **2018**, 56, 276-281 2.5 6
- 122 Optical Properties of Benzotriazole-Based Conjugated Polyelectrolytes. *Macromolecules*, **2016**, 49, 6343-6349 6
- 121 Assembly of quantum dots in polymer solar cells driven by orientational switching of mesogens under electric field. *Solar Energy*, **2016**, 129, 184-191 6.8 6
- 120 Dye-sensitized nanoarrays with discotic liquid crystals as interlayer for high-efficiency inverted polymer solar cells. *ACS Applied Materials & Interfaces*, **2014**, 6, 17848-56 9.5 6
- 119 Studies on high performance nonvolatile polyimides coating: Gamma ray initiated bulk copolymerization of vinyl polar monomer and maleimide-terminated polyimides with flexible backbone and the modifications. *Progress in Organic Coatings*, **2012**, 73, 33-41 4.8 6
- 118 In Situ Photocatalytically Heterostructured ZnO-Ag Nanoparticle Composites as Effective Cathode-Modifying Layers for Air-Processed Polymer Solar Cells. *Chemistry - A European Journal*, **2015**, 21, 11899-906 4.8 6
- 117 Enhanced conductivity of novel star branched liquid crystalline copolymer based on poly(ethylene oxide) for solid polymer electrolytes. *Applied Surface Science*, **2012**, 258, 10095-10103 6.7 6
- 116 Transesterification-induced cocrystallization of poly(trimethylene terephthalate) and poly(butylene succinate) blends. *Journal of Applied Polymer Science*, **2011**, 120, 1297-1306 2.9 6
- 115 Preparation of Polymer@PbS hybrid nanofibers by surface-initiated atom transfer radical polymerization and acidolysis by H₂S. *Materials Letters*, **2009**, 63, 1425-1427 3.3 6
- 114 Synthesis and properties of monopolyacetylenes with terphenyl mesogens groups linked at waist position. *Synthetic Metals*, **2009**, 159, 2049-2055 3.6 6
- 113 Synthesis of Fe₃O₄@PbS hybrid nanoparticles through the combination of surface-initiated atom transfer radical polymerization and acidolysis by H₂S. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 98-105 1.3 6
- 112 A fast-response and short-wavelength nonlinear optical chromophore for a photorefractive composite. *Applied Physics Letters*, **1998**, 73, 3629-3631 3.4 6
- 111 Molecular Control of Carbon-Based Oxygen Reduction Electrocatalysts through Metal Macrocyclic Complexes Functionalization. *Advanced Energy Materials*, **2021**, 11, 2100866 21.8 6
- 110 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
- 109 Oligomer-assisted Photoactive Layers Enabled 18% Efficiency of Organic Solar Cells.. *Angewandte Chemie - International Edition*, **2022**, 16.4 6
- 108 Structure Evolution of Fluorinated Conjugated Polymers Based on Benzodithiophene and Benzothiadiazole for Photovoltaics. *Journal of Physical Chemistry C*, **2015**, 119, 8038-8045 3.8 5
- 107 Ternary thick active layer for efficient organic solar cells. *Journal of Materials Science*, **2018**, 53, 8398-8408 4.3 5
- 106 DR3TBDTT Based Ternary Blends Containing Conjugated Polymers: Crystallization Determines Morphology and Performance. *Chinese Journal of Chemistry*, **2018**, 36, 437-442 4.9 5

105	Norbornene/n-Butyl methacrylate copolymerization over Diimine nickel and palladium catalysts supported on multiwalled carbon nanotubes. <i>Journal of Polymer Science Part A</i> , 2014 , 52, 3213-3220	2.5	5
104	Coexistence of two conformational isomeric chains in a zinc(II) phosphonate induced by π - π stacking interactions. <i>Structural Chemistry</i> , 2012 , 23, 91-96	1.8	5
103	Vinyl-addition type norbornene copolymer containing sulfonated biphenyl pendant groups for proton exchange membranes. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 2280-2289	2.9	5
102	Self-assembled diblock conjugated polyelectrolytes as electron transport layers for organic photovoltaics. <i>RSC Advances</i> , 2017 , 7, 24345-24352	3.7	5
101	Sulfonated poly(ether sulfone ether ketone ketone)/sulfonated poly(ether sulfone) blend membranes with reduced methanol permeability. <i>High Performance Polymers</i> , 2012 , 24, 153-160	1.6	5
100	In situ growth nanocomposites composed of rodlike ZnO nanocrystals arranged by nanoparticles in a self-assembling diblock copolymer for heterojunction optoelectronics. <i>Journal of Materials Chemistry</i> , 2012 ,		5
99	The fluorescence of Mg-Al-Eu ternary layered hydroxides response to tryptophan. <i>Luminescence</i> , 2012 , 27, 223-8	2.5	5
98	Vinyl-addition type norbornene copolymers containing flexible spacers and sulfonated pendant groups for proton exchange membranes. <i>Journal of Applied Polymer Science</i> , 2013 , 128, 3540-3547	2.9	5
97	PREPARATION OF POLYMER BRUSHES FROM POLY(VINYLIDENE FLUORIDE) SURFACES BY UV IRRADIATION PRETREATMENT. <i>Surface Review and Letters</i> , 2007 , 14, 23-30	1.1	5
96	A Regularity-Based Fullerene Interfacial Layer for Efficient and Stable Perovskite Solar Cells via Blade-Coating. <i>Advanced Functional Materials</i> , 2105917	15.6	5
95	Subnaphthalocyanine triimides: potential three-dimensional solution processable acceptors for organic solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 2186-2195	7.1	5
94	Concerted regulation on vertical orientation and film quality of two-dimensional Ruddlesden-Popper perovskite layer for efficient solar cells. <i>Science China Chemistry</i> , 2020 , 63, 1675-1683	7.9	5
93	Regulation of the Miscibility of the Active Layer by Random Terpolymer Acceptors to Realize High-Performance All-Polymer Solar Cells. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 1923-1931	4.3	5
92	Ultra-flexible and waterproof perovskite photovoltaics for washable power source applications. <i>Chemical Communications</i> , 2021 , 57, 6320-6323	5.8	5
91	Over 70% Fill Factor of All-Polymer Solar Cells Guided by the Law of Similarity and Intermiscibility. <i>Solar Rrl</i> , 2021 , 5, 2100019	7.1	5
90	Electrodeposition of poly(3,4-ethylenedioxythiophene) coated manganese dioxide nanospheres for flexible asymmetric planar supercapacitor with superior energy density. <i>Journal of Power Sources</i> , 2021 , 506, 230176	8.9	5
89	Toward efficient perovskite solar cells by planar imprint for improved perovskite film quality and granted bifunctional barrier. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16178-16186	13	5
88	Simultaneously Integrate Iron Single Atom and Nanocluster Triggered Tandem Effect for Boosting Oxygen Electroreduction.. <i>Small</i> , 2022 , e2107225	11	5

87	Regulation of Crystallinity and Vertical Phase Separation Enables High-Efficiency Thick Organic Solar Cells. <i>Advanced Functional Materials</i> , 2020, 103	15.6	5
86	Photonic Nanostructures: Photonic Nanostructures Patterned by Thermal Nanoimprint Directly into Organo-Metal Halide Perovskites (Adv. Mater. 12/2017). <i>Advanced Materials</i> , 2017, 29,	24	4
85	Novel Poly(Benzonorbornadiene) Derivatives Prepared by a Three-Dimensional Geometry Bimetallic Nickel Catalyst with Good Processability for Electrospinning. <i>Macromolecular Materials and Engineering</i> , 2014, 299, 470-477	3.9	4
84	Crystallization and degradation behaviors of poly(butylene succinate)/poly(L-lysine) composites. <i>Thermochimica Acta</i> , 2014, 575, 279-284	2.9	4
83	Transesterification-Induced Evolution of Structure and Morphology in Poly(trimethylene terephthalate)/Poly(butylene succinate) Blends. <i>Journal of Macromolecular Science - Physics</i> , 2012, 51, 2361-2376	1.4	4
82	High efficiency of poly(3-hexylthiophene)/[6,6]-phenyl C61 butyric acid methyl ester bulk heterojunction solar cells through precrystallining of poly(3-hexylthiophene) based layer. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5986-93	9.5	4
81	Fluorescence and phase transitions of Mg-Al-Eu ternary layered double hydroxides dependence on annealing. <i>Clay Minerals</i> , 2011, 46, 487-493	1.3	4
80	Synthesis and properties of novel ferroelectric liquid crystalline polyacetylenes containing terphenyl mesogens with chiral groups. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 105, 995-1006 ^{4.1}		4
79	Synthesis and Properties of Light-Emitting Polythiophene Derivatives Bearing Terphenyl Mesogenic Pendant. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 518, 70-83	0.5	4
78	Synthesis of Proton-conducting Electrolytes Based on Poly(vinylidene fluoride-co-hexafluoropropylene) via Atom Transfer Radical Polymerization. <i>High Performance Polymers</i> , 2009, 21, 484-500	1.6	4
77	A versatile approach for the fabrication of Au hollow nanoparticles based on poly(styrene-co-2-aminoethyl methacrylate) template. <i>Journal of Materials Science</i> , 2009, 44, 4710-4714 ^{4.3}		4
76	Preparation of silica microtubes by surface-initiated atom transfer radical polymerization from microfiber templates. <i>Polymer Bulletin</i> , 2009, 62, 615-627	2.4	4
75	Electroabsorption and orientationally enhanced electroabsorption grating in an azo-dye-doped photorefractive composite. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999, 16, 366	1.7	4
74	Enhanced Efficiency and Excellent Thermostability in Organic Photovoltaics via Ternary Strategy with Twisted Conjugated Compound. <i>Small</i> , 2021, 17, e2103537	11	4
73	Isomeric Effect of Wide Bandgap Polymer Donors with High Crystallinity to Achieve Efficient Polymer Solar Cells. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000454	4.8	4
72	Enabling 2.4-V aqueous supercapacitors through the rational design of an integrated electrode of hollow vanadium trioxide/carbon nanospheres. <i>Science China Materials</i> , 2021, 64, 2163-2172	7.1	4
71	Layer-by-Layer Solution-Processed Organic Solar Cells with Perylene Diimides as Acceptors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 29876-29884	9.5	4
70	Synthesis and property study of phthalocyanine tetraimides as solution processable electron acceptors. <i>Dyes and Pigments</i> , 2020, 173, 107980	4.6	4

69	1,2,4-Triazoline-3,5-dione substituted perylene diimides as near infrared acceptors for bulk heterojunction organic solar cells. <i>Dyes and Pigments</i> , 2021 , 187, 109108	4.6	4
68	Green quasi-solid-state planar asymmetric supercapacitors with high working voltage and extraordinary volumetric energy density. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 14363-14371	13	4
67	Novel efficient accptor1-acceptor2 type copolymer donors: Vinyl induced planar geometry and high performance organic solar cells. <i>Chemical Engineering Journal</i> , 2021 , 419, 129532	14.7	4
66	Pseudo-Planar Heterojunction Organic Photovoltaics with Optimized Light Utilization for Printable Solar Windows.. <i>Advanced Materials</i> , 2022 , e2201604	24	4
65	Alternating terpolymers based on tunable Bi-donors with manipulating energy levels and molecular geometry. <i>Chemical Research in Chinese Universities</i> , 2017 , 33, 305-311	2.2	3
64	Hole Transportation: Enhanced Hole Transportation for Inverted Tin-Based Perovskite Solar Cells with High Performance and Stability (Adv. Funct. Mater. 18/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970117	15.6	3
63	A Facile Approach To Fabricate High-Performance Polymer Solar Cells with an Annealing-Free and Simple Device of Three Layers. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 11619-11624	3.8	3
62	Disulfide-crosslinked poly(L-glutamic acid) grafted mesoporous silica nanoparticles and their potential application in drug delivery. <i>Chemical Research in Chinese Universities</i> , 2015 , 31, 890-894	2.2	3
61	Flexible and Wearable Solar Cells and Supercapacitors 2020 , 87-129		3
60	Introducing Porphyrin Units by Random Copolymerization Into NDI-Based Acceptor for All Polymer Solar Cells. <i>Frontiers in Chemistry</i> , 2020 , 8, 310	5	3
59	Flexible Solar Cells: A General Approach for Lab-to-Manufacturing Translation on Flexible Organic Solar Cells (Adv. Mater. 41/2019). <i>Advanced Materials</i> , 2019 , 31, 1970294	24	3
58	Crystallization and shear-induced formation of organogels in novel poly[(butylene succinate)-co-diolisobutyl]-[polyhedral oligomeric silsesquioxane] copolyesters. <i>Polymer International</i> , 2014 , 63, 626-632	3.3	3
57	Approach to cross-linked polynorbornene/ZnO nanocomposites through nitroxide-mediated free radical graft polymerization and in situ hydrolysis. <i>Optical Materials</i> , 2012 , 34, 1563-1569	3.3	3
56	Silica-supported Ni(II) complex bearing [O ^N] ligand and copolymerization to afford silica hybrid polynorbornenes nanocomposites. <i>High Performance Polymers</i> , 2013 , 25, 287-300	1.6	3
55	Liquid crystallinity and enhanced photoluminescence of terphenyl-containing poly(1-alkynes) with tuning spacers and tails. <i>Synthetic Metals</i> , 2010 , 160, 892-905	3.6	3
54	In Vivo Evaluation of Butylene Terephthalate-ethylene Oxide-DL, Lactide Polymer as Porous Scaffolds for Tissue Engineering. <i>Journal of Bioactive and Compatible Polymers</i> , 2009 , 24, 43-55	2	3
53	Deciphering the Precursor-Performance Relationship of Single-Atom Iron Oxygen Electroreduction Catalysts via Isomer Engineering.. <i>Small</i> , 2022 , e2106122	11	3
52	Releasing Nanocapsules for High-Throughput Printing of Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2101291	21.8	3

- 51 Highly-efficient polymer solar cells realized by tailoring conjugated skeleton of alcohol-soluble conjugated electrolytes. *Solar Energy Materials and Solar Cells*, **2016**, 157, 644-651 6.4 3
- 50 Double acceptor block-based copolymers for efficient organic solar cells: side-chain and bridge engineered high open-circuit voltage and small driving force. *Polymer Chemistry*, **2019**, 10, 6227-6235 4.9 3
- 49 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, 42733-42803
- 48 Enriching redox active sites by interconnected nanowalls-like nickel cobalt phospho-sulfide nanosheets for high performance supercapacitors. *Chinese Chemical Letters*, **2021**, 8.1 3
- 47 Evaporation-Free Organic Solar Cells with High Efficiency Enabled by Dry and Nonimmersive Sintering Strategy. *Advanced Functional Materials*, **2021**, 31, 2010764 15.6 3
- 46 Defect Passivation Effect of Chemical Groups on Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2021**, 9.5 3
- 45 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
- 44 Crystalline and active additive for optimization morphology and absorption of narrow bandgap polymer solar cells. *Journal of Polymer Science Part A*, **2017**, 55, 726-733 2.5 2
- 43 Sequential Structure, Crystallization, and Properties of Biodegradable Poly(ethylene Terephthalate-Co-Ethylene Oxide-Co-Lactide) Copolyester. *Journal of Macromolecular Science - Physics*, **2014**, 53, 1231-1243 1.4 2
- 42 Inverted polymer solar cells with a low-temperature ramp annealed sol-gel derived aluminum-doped ZnO nano-ridge film as a cathode buffer layer. *Chemical Physics Letters*, **2014**, 592, 96-102 2.5 2
- 41 Surface-initiated addition polymerization of norbornene by a Pd(II) catalyst bearing acetylacetonate ligand on the glass slide. *Applied Surface Science*, **2012**, 258, 3779-3784 6.7 2
- 40 Synthesis and characterization of biodegradable poly(butylene succinate)-co-oligo(L-valine) copolyesters via direct melt transesterification. *Journal of Applied Polymer Science*, **2012**, 125, 3092-3099 2.9 2
- 39 Synthesis and cytotoxicity of brefeldin A conjugated monomethoxy-poly(ethylene glycol)-b-poly(L-lactide) polymeric micelles. *Journal of Biomaterials Science, Polymer Edition*, **2013**, 24, 986-98 3.5 2
- 38 Copolymerization of norbornene with styrene catalyzed by Ni{CF₃C(O)CHC[N(naphthyl)]CH₃}₂/B(C₆F₅)₃ and transparent films. *Journal of Polymer Engineering*, **2012**, 32, 1.4 2
- 37 Melt reaction and structural analysis based on poly(butylene terephthalate) and oligo(lactic acid) with addition of butanediol. *Journal of Thermal Analysis and Calorimetry*, **2010**, 99, 269-275 4.1 2
- 36 Synthesis and thermal analysis of disubstituted propiolates bearing terphenylene mesogen. *Journal of Thermal Analysis and Calorimetry*, **2010**, 99, 391-397 4.1 2
- 35 ELECTROLESS PLATING OF COPPER ON POLYTETRAFLUOROETHYLENE FILMS MODIFIED BY SURFACE-INITIATED FREE RADICAL POLYMERIZATION OF 4-VINYLPYRIDINE. *Surface Review and Letters*, **2007**, 14, 241-253 1.1 2
- 34 The design, fabrication and property study for photorefractive applications of novel organic materials. *Optical Materials*, **2003**, 23, 253-259 3.3 2

33	Hierarchically nitrogen-doped mesoporous carbon nanospheres with dual ion adsorption capability for superior rate and ultra-stable zinc ion hybrid supercapacitors. <i>Science China Materials</i> , 1	7.1	2
32	Solar Cells: Nucleation and Crystallization Control via Polyurethane to Enhance the Bendability of Perovskite Solar Cells with Excellent Device Performance (Adv. Funct. Mater. 41/2017). <i>Advanced Functional Materials</i> , 2017, 27,	15.6	1
31	Specific interaction between fluorine atoms and thiol groups accounting for higher domain purity and photostability in narrowband BHJ systems. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 941-951	2.6	1
30	Elastomers uploaded electrospun nanofibrous membrane as solid state polymer electrolytes for lithium-ion batteries. <i>RSC Advances</i> , 2015, 5, 82960-82967	3.7	1
29	Zn-Air Batteries: Simultaneously Integrating Single Atomic Cobalt Sites and Co ₉ S ₈ Nanoparticles into Hollow Carbon Nanotubes as Trifunctional Electrocatalysts for Zn-Air Batteries to Drive Water Splitting (Small 10/2020). <i>Small</i> , 2020, 16, 2070053	11	1
28	Controllable length and density ZnO@CdS core/shell as electron transport layer for optimization of organic solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 3557-3564	2.1	1
27	Synthesis and Characterization of a New Type of Smart Hydroxyapatite-PNIPAM Hybrid Nanoparticles. <i>Advanced Materials Research</i> , 2011, 396-398, 35-39	0.5	1
26	Hybrid polymers based on sulfonated polynorbornene with enhanced proton conductivity for direct methanol fuel cells. <i>High Performance Polymers</i> , 2012, 24, 756-764	1.6	1
25	Photopolymerization of glycerin triglycidyl ether based systems. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2008, 23, 795-798	1	1
24	Iron-based nanocomposites implanting in N, P Co-doped carbon nanosheets as efficient oxygen reduction electrocatalysts for Zn-Air batteries. <i>Composites Communications</i> , 2021, 100994	6.7	1
23	Colloidal chemistry in perovskite precursor solution. <i>Science Bulletin</i> , 2021, 67, 561-561	10.6	1
22	Reply to the Comment on "Remarkably enhanced photocurrent enabled by triplet-triplet annihilation up-conversion for high-performance perovskite solar cells" by L. Nienhaus and T. W. Schmidt, <i>Energy Environ. Sci.</i> , 2021, 14, 10.1039/D1EE01446C. <i>Energy and Environmental Science</i> ,	35.4	1
21	Innenrücktitelbild: Stretchable Perovskite Solar Cells with Recoverable Performance (Angew. Chem. 38/2020). <i>Angewandte Chemie</i> , 2020, 132, 16947	3.6	1
20	Wearable Tin-Based Perovskite Solar Cells Achieved by a Crystallographic Size Effect. <i>Angewandte Chemie</i> , 2021, 133, 14814-14821	3.6	1
19	High- γ -La ₂ O ₃ as an anode modifier to reduce leakage current for efficient perovskite solar cells. <i>Surfaces and Interfaces</i> , 2021, 24, 101102	4.1	1
18	A novel AIE molecule as a hole transport layer enables efficient and stable perovskite solar cells. <i>Chemical Communications</i> , 2021, 57, 4015-4018	5.8	1
17	Thickness-Insensitive Anode Interface Layer for High-Efficiency Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 39844-39853	9.5	1
16	Dual Triplet Sensitization Strategy for Efficient and Stable Triplet-Triplet Annihilation Up-Conversion Perovskite Solar Cells. <i>CCS Chemistry</i> , 1-26	7.2	1

15	Halogen-free donor polymers based on dicyanobenzotriazole for additive-free organic solar cells. <i>Chemical Engineering Journal</i> , 2022 , 442, 136068	14.7	1
14	The synergistic effects of central core size and end group engineering on performance of narrow bandgap nonfullerene acceptors. <i>Chemical Engineering Journal</i> , 2022 , 435, 135020	14.7	0
13	Highly efficient and stable ZnO-based MA-free perovskite solar cells via overcoming interfacial mismatch and deprotonation reaction. <i>Chemical Engineering Journal</i> , 2022 , 431, 134235	14.7	0
12	Recent Advances of PEDOT in Flexible Energy Conversion and Storage Devices. <i>Acta Chimica Sinica</i> , 2021 , 79, 853	3.3	0
11	Silicon Naphthalocyanine Tetraimides: Cathode Interlayer Materials for Highly Efficient Organic Solar Cells. <i>Angewandte Chemie</i> , 2021 , 133, 19201-19205	3.6	0
10	Highly crystalline acceptor materials based on benzodithiophene with different amount of fluorine substitution on alkoxyphenyl conjugated side chains for organic photovoltaics. <i>Materials Reports Energy</i> , 2021 , 1, 100059		0
9	N-Doped Carbon Coated SnS/rGO Composite with Superior Cyclic Stability as Anode for Lithium-Ion Batteries. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 4339-4347	3.9	0
8	Stretchable Perovskite Solar Cells with Recoverable Performance. <i>Angewandte Chemie</i> , 2020 , 132, 16745,6		
7	Copolymerization of 5-norbornene-2-metheneoxy-trimethylsilyl with methyl 5-norbornene-2-carboxylate catalyzed by a novel Ni(benzocyclohexan-ketonaphthylimino)2/B(C6F5)3 system. <i>Journal of Polymer Engineering</i> , 2012 , 32, 415-423	1.4	
6	Influence of Atomic Defect on the Deformation Properties of Nanowires Subjected to Uniaxial Tension. <i>Advanced Materials Research</i> , 2013 , 873, 139-146	0.5	
5	Novel proton exchange membranes with dimensional stability and permeability resistance based on sulfonate polynorbornenes. <i>Journal of Polymer Engineering</i> , 2013 , 33, 275-283	1.4	
4	A Dft Study of Styrene Polymerization using Neutral (2Z, 4E)-4-(Methylimino)Pent-2-En-2-ol Nickel(II). <i>Progress in Reaction Kinetics and Mechanism</i> , 2011 , 36, 18-26	0.5	
3	Preparation and Characterization of a Novel Optical Material Based on Zinc-Tetraphenylporphyrin. <i>Advanced Materials Research</i> , 2012 , 476-478, 1254-1257	0.5	
2	A versatile approach to the fabrication of palladium hollow spheres with aluminiumoxide nanoparticles as template. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 5790-4	1.3	
1	SYNTHESIS AND PROPERTIES OF MESOGEN JACKETED LIQUID CRYSTALLINE POLYACETYLENE BEARING LATERAL TERPHENYL WITH DIFFERENT SPACERS. <i>Acta Polymerica Sinica</i> , 2012 , 011, 1439-1444		