

Ren Aj Janssen

List of Publications by Year in Descending Order

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

580 papers	50,375 citations	110 h-index	205 g-index
604 ext. papers	53,267 ext. citations	9.7 avg, IF	7.67 L-index

#	Paper	IF	Citations
580	Revealing defective interfaces in perovskite solar cells from highly sensitive sub-bandgap photocurrent spectroscopy using optical cavities.. <i>Nature Communications</i> , 2022 , 13, 349	17.4	7
579	Efficient organic solar cells with small energy losses based on a wide-bandgap trialkylsilyl-substituted donor polymer and a non-fullerene acceptor. <i>Chemical Engineering Journal</i> , 2022 , 435, 134878	14.7	1
578	The Intrinsic Photoluminescence Spectrum of Perovskite Films (Advanced Optical Materials 8/2022). <i>Advanced Optical Materials</i> , 2022 , 10, 2270032	8.1	
577	Monolithic All-Perovskite Tandem Solar Cells with Minimized Optical and Energetic Losses.. <i>Advanced Materials</i> , 2021 , e2110053	24	6
576	Effect of Co-Solvents on the Crystallization and Phase Distribution of Mixed-Dimensional Perovskites (Adv. Energy Mater. 42/2021). <i>Advanced Energy Materials</i> , 2021 , 11, 2170168	21.8	
575	Effect of Co-Solvents on the Crystallization and Phase Distribution of Mixed-Dimensional Perovskites. <i>Advanced Energy Materials</i> , 2021 , 11, 2102144	21.8	6
574	Efficient Electron Transport Layer Free Small-Molecule Organic Solar Cells with Superior Device Stability. <i>Advanced Materials</i> , 2021 , 33, e2008429	24	20
573	Thin Thermally Evaporated Organic Hole Transport Layers for Reduced Optical Losses in Substrate-Configuration Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 3033-3043	6.1	3
572	Efficient Solar Cells Based on a Polymer Donor with EBranching in Trialkylsilyl Side Chains. <i>Organic Materials</i> , 2021 , 03, 134-140	1.9	
571	Noncovalent semiconducting polymer monolayers for high-performance field-effect transistors. <i>Progress in Polymer Science</i> , 2021 , 117, 101394	29.6	7
570	The Bottlenecks of Cs ₂ AgBiBr ₆ Solar Cells: How Contacts and Slow Transients Limit the Performance. <i>Advanced Optical Materials</i> , 2021 , 9, 2100202	8.1	10
569	Effect of Light-Induced Halide Segregation on the Performance of Mixed-Halide Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 6650-6658	6.1	12
568	Device Performance of Emerging Photovoltaic Materials (Version 1). <i>Advanced Energy Materials</i> , 2021 , 11, 2002774	21.8	56
567	Polymorphism of a semi-crystalline diketopyrrolopyrrole-terthiophene polymer. <i>Journal of Polymer Science</i> , 2021 , 59, 1285-1292	2.4	2
566	Use of Sodium Diethyldithiocarbamate to Enhance the Open-Circuit Voltage of CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2000811	7.1	0
565	Analysis of the Performance of Narrow-Bandgap Organic Solar Cells Based on a Diketopyrrolopyrrole Polymer and a Nonfullerene Acceptor. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 5505-5517	3.8	6
564	Imide-Based Multielectron Anolytes as High-Performance Materials in Nonaqueous Redox Flow Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 9248-9257	6.1	2

563	Pyrene-Based Small-Molecular Hole Transport Layers for Efficient and Stable Narrow-Bandgap Perovskite Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2100454	7.1	2
562	Ultralow dark current in near-infrared perovskite photodiodes by reducing charge injection and interfacial charge generation.. <i>Nature Communications</i> , 2021 , 12, 7277	17.4	14
561	Tuning the Optical Characteristics of Diketopyrrolopyrrole Molecules in the Solid State by Alkyl Side Chains. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 25229-25238	3.8	6
560	The Effect of E-Branched Side Chains on the Structural and Opto-Electronic Properties of Poly(Diketopyrrolopyrrole-alt-Terthiophene). <i>Chemistry - A European Journal</i> , 2020 , 26, 14221-14228	4.8	8
559	High-Accuracy Photoplethysmography Array Using Near-Infrared Organic Photodiodes with Ultralow Dark Current. <i>Advanced Optical Materials</i> , 2020 , 8, 1901989	8.1	16
558	Enhancement-Mode PEDOT:PSS Organic Electrochemical Transistors Using Molecular De-Doping. <i>Advanced Materials</i> , 2020 , 32, e2000270	24	55
557	The effect of alkyl side chain length on the formation of two semi-crystalline phases in low band gap conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5856-5867	7.1	11
556	A Self-Assembled Small-Molecule-Based Hole-Transporting Material for Inverted Perovskite Solar Cells. <i>Chemistry - A European Journal</i> , 2020 , 26, 10276-10282	4.8	10
555	1000-Pixels per Inch Transistor Arrays Using Multi-Level Imprint Lithography. <i>IEEE Electron Device Letters</i> , 2020 , 41, 1217-1220	4.4	1
554	Relation between the Electronic Properties of Regioregular Donor-Acceptor Terpolymers and Their Binary Copolymers. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 3503-3516	3.8	7
553	Color Determination from a Single Broadband Organic Photodiode. <i>Advanced Optical Materials</i> , 2020 , 8, 1901722	8.1	11
552	Controlling the Microstructure of Conjugated Polymers in High-Mobility Monolayer Transistors via the Dissolution Temperature. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 846-852	16.4	32
551	On the Origin of Dark Current in Organic Photodiodes. <i>Advanced Optical Materials</i> , 2020 , 8, 1901568	8.1	41
550	Organic Photodetectors and their Application in Large Area and Flexible Image Sensors: The Role of Dark Current. <i>Advanced Functional Materials</i> , 2020 , 30, 1904205	15.6	120
549	Controlling the Microstructure of Conjugated Polymers in High-Mobility Monolayer Transistors via the Dissolution Temperature. <i>Angewandte Chemie</i> , 2020 , 132, 856-862	3.6	10
548	16.8% Monolithic all-perovskite triple-junction solar cells via a universal two-step solution process. <i>Nature Communications</i> , 2020 , 11, 5254	17.4	15
547	Light-Driven Electrochemical Carbon Dioxide Reduction to Carbon Monoxide and Methane Using Perovskite Photovoltaics. <i>Cell Reports Physical Science</i> , 2020 , 1, 100058	6.1	4
546	Impact of E-Conjugated Linkers on the Effective Exciton Binding Energy of Diketopyrrolopyrrole-Dithienopyrrole Copolymers. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 27403-27412	3.8	6

545	Precise Control of Phase Separation Enables 12% Efficiency in All Small Molecule Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 2001589	21.8	25
544	Structural design of asymmetric diketopyrrolopyrrole polymers for organic solar cells processed from a non-halogenated solvent. <i>Organic Electronics</i> , 2020 , 86, 105914	3.5	7
543	Influence of Regioregularity on the Optoelectronic Properties of Conjugated Diketopyrrolopyrrole Polymers Comprising Asymmetric Monomers. <i>Macromolecules</i> , 2020 , 53, 7749-7758	5.5	8
542	Effect of main and side chain chlorination on the photovoltaic properties of benzodithiophene-alt-benzotriazole polymers. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15426-15435	7.1	7
541	Development of a Perovskite Solar Cell Architecture for Opaque Substrates. <i>Solar Rrl</i> , 2020 , 4, 2000385	7.1	5
540	Photochromic organic solar cells based on diarylethenes.. <i>RSC Advances</i> , 2020 , 10, 30176-30185	3.7	5
539	Understanding the Film Formation Kinetics of Sequential Deposited Narrow-Bandgap PbSn Hybrid Perovskite Films. <i>Advanced Energy Materials</i> , 2020 , 10, 2000566	21.8	18
538	The Mechanism of Dedoping PEDOT:PSS by Aliphatic Polyamines. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 24328-24337	3.8	16
537	Relating Frontier Orbital Energies from Voltammetry and Photoelectron Spectroscopy to the Open-Circuit Voltage of Organic Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1803677	21.8	54
536	Solution-Processed Tin Oxide-PEDOT:PSS Interconnecting Layers for Efficient Inverted and Conventional Tandem Polymer Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1800366	7.1	18
535	Carboxylate-Substituted Polythiophenes for Efficient Fullerene-Free Polymer Solar Cells: The Effect of Chlorination on Their Properties. <i>Macromolecules</i> , 2019 , 52, 4464-4474	5.5	50
534	On the homocoupling of trialkylstannyl monomers in the synthesis of diketopyrrolopyrrole polymers and its effect on the performance of polymer-fullerene photovoltaic cells.. <i>RSC Advances</i> , 2019 , 9, 15703-15714	3.7	8
533	The influence of siloxane side-chains on the photovoltaic performance of a conjugated polymer.. <i>RSC Advances</i> , 2019 , 9, 8740-8747	3.7	8
532	Effect of Charge-Transfer State Energy on Charge Generation Efficiency via Singlet Fission in Pentacene-Fullerene Solar Cells. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 10253-10261	3.8	8
531	Efficient Thick-Film Polymer Solar Cells with Enhanced Fill Factors via Increased Fullerene Loading. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 10794-10800	9.5	17
530	Impact of polymorphism on the optoelectronic properties of a low-bandgap semiconducting polymer. <i>Nature Communications</i> , 2019 , 10, 2867	17.4	43
529	Insights into Fullerene Passivation of SnO ₂ Electron Transport Layers in Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1905883	15.6	74
528	Advances in Solution-Processed Multijunction Organic Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1806429	22.4	103

527	Adjusting Aggregation Modes and Photophysical and Photovoltaic Properties of Diketopyrrolopyrrole-Based Small Molecules by Introducing B<N Bonds. <i>Chemistry - A European Journal</i> , 2019 , 25, 564-572	4.8	10
526	Bis(arylimidazole) Iridium Picolinate Emitters and Preferential Dipole Orientation in Films. <i>ACS Omega</i> , 2018 , 3, 2673-2682	3.9	5
525	Subnaphthalocyanines as Electron Acceptors in Polymer Solar Cells: Improving Device Performance by Modifying Peripheral and Axial Substituents. <i>Chemistry - A European Journal</i> , 2018 , 24, 6339-6343	4.8	17
524	A Universal Route to Fabricate n-i-p Multi-Junction Polymer Solar Cells via Solution Processing. <i>Solar Rrl</i> , 2018 , 2, 1800018	7.1	11
523	Simulating Phase Separation during Spin Coating of a PolymerFullerene Blend: A Joint Computational and Experimental Investigation. <i>ACS Applied Energy Materials</i> , 2018 , 1, 725-735	6.1	24
522	High-performance all-polymer solar cells based on fluorinated naphthalene diimide acceptor polymers with fine-tuned crystallinity and enhanced dielectric constants. <i>Nano Energy</i> , 2018 , 45, 368-379	17.1	86
521	New n-Type Solution Processable All Conjugated Polymer Network: Synthesis, Optoelectronic Characterization, and Application in Organic Solar Cells. <i>Macromolecular Rapid Communications</i> , 2018 , 39, 1700629	4.8	6
520	All-Oxide MoOx/SnOx Charge Recombination Interconnects for Inverted Organic Tandem Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1702533	21.8	25
519	The effect of oxygen on the efficiency of planar p-i-n metal halide perovskite solar cells with a PEDOT:PSS hole transport layer. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6882-6890	13	25
518	Thermal behaviour of dicarboxylic ester bithiophene polymers exhibiting a high open-circuit voltage. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 3731-3742	7.1	11
517	8.0% Efficient All-Polymer Solar Cells with High Photovoltage of 1.1 V and Internal Quantum Efficiency near Unity. <i>Advanced Energy Materials</i> , 2018 , 8, 1700908	21.8	76
516	Quadruple Junction Polymer Solar Cells with Four Complementary Absorber Layers. <i>Advanced Materials</i> , 2018 , 30, e1803836	24	12
515	Study of the morphology of organic ferroelectric diodes with combined scanning force and scanning transmission X-ray microscopy. <i>Organic Electronics</i> , 2018 , 53, 242-248	3.5	4
514	A high dielectric constant non-fullerene acceptor for efficient bulk-heterojunction organic solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 395-403	13	173
513	Effects of fluorination and thermal annealing on charge recombination processes in polymer bulk-heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19520-19531	13	4
512	The effect of side-chain substitution on the aggregation and photovoltaic performance of diketopyrrolopyrrole-alt-dicarboxylic ester bithiophene polymers. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20904-20915	13	14
511	Improving Performance of All-Polymer Solar Cells Through Backbone Engineering of Both Donors and Acceptors. <i>Solar Rrl</i> , 2018 , 2, 1800247	7.1	13
510	BilayerTernary Polymer Solar Cells Fabricated Using Spontaneous Spreading on Water. <i>Advanced Energy Materials</i> , 2018 , 8, 1802197	21.8	15

509	Near-Infrared Tandem Organic Photodiodes for Future Application in Artificial Retinal Implants. <i>Advanced Materials</i> , 2018 , 30, e1804678	24	46
508	The Impact of Device Polarity on the Performance of Polymer/Bullerene Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1800550	21.8	22
507	Morphology Optimization via Side Chain Engineering Enables All-Polymer Solar Cells with Excellent Fill Factor and Stability. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8934-8943	16.4	171
506	Energy Level Tuning of Poly(phenylene-dithienobenzothiadiazole)s for Low Photon Energy Loss Solar Cells. <i>Macromolecular Chemistry and Physics</i> , 2017 , 218, 1600502	2.6	11
505	Ferroelectric switching and electrochemistry of pyrrole substituted trialkylbenzene-1,3,5-tricarboxamides. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017 , 55, 673-683	2.6	10
504	The Effect of H- and J-Aggregation on the Photophysical and Photovoltaic Properties of Small Thiophene/Pyridine/DPP Molecules for Bulk-Heterojunction Solar Cells. <i>Advanced Functional Materials</i> , 2017 , 27, 1605779	15.6	154
503	High-photovoltage all-polymer solar cells based on a diketopyrrolopyrrole/indigo acceptor polymer. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 11693-11700	13	43
502	The effect of side-chain substitution and hot processing on diketopyrrolopyrrole-based polymers for organic solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13748-13756	13	18
501	Increasing the horizontal orientation of transition dipole moments in solution processed small molecular emitters. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6555-6562	7.1	18
500	Aqueous Nanoparticle Polymer Solar Cells: Effects of Surfactant Concentration and Processing on Device Performance. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 13380-13389	9.5	44
499	High-Performance and Stable All-Polymer Solar Cells Using Donor and Acceptor Polymers with Complementary Absorption. <i>Advanced Energy Materials</i> , 2017 , 7, 1602722	21.8	77
498	Monitoring Thermal Annealing of Perovskite Solar Cells with In Situ Photoluminescence. <i>Advanced Energy Materials</i> , 2017 , 7, 1601822	21.8	47
497	2-Methoxyethanol as a new solvent for processing methylammonium lead halide perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2346-2354	13	68
496	Organic and Hybrid Solar Cells Based on Well-Defined Organic Semiconductors and Morphologies. <i>Advances in Polymer Science</i> , 2017 , 25-49	1.3	1
495	9.0% power conversion efficiency from ternary all-polymer solar cells. <i>Energy and Environmental Science</i> , 2017 , 10, 2212-2221	35.4	179
494	Accurate Characterization of Triple-Junction Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1701664	21.8	12
493	Conjugated Polymers Based on Difluorobenzoxadiazole toward Practical Application of Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1702033	21.8	30
492	Sub-Micrometer Structure Formation during Spin Coating Revealed by Time-Resolved In Situ Laser and X-Ray Scattering. <i>Advanced Functional Materials</i> , 2017 , 27, 1702516	15.6	27

491	Highly Efficient Perovskite Solar Cells Using Non-Toxic Industry Compatible Solvent System. <i>Solar Rrl</i> , 2017 , 1, 1700091	7.1	44
490	Thiophene Rings Improve the Device Performance of Conjugated Polymers in Polymer Solar Cells with Thick Active Layers. <i>Advanced Energy Materials</i> , 2017 , 7, 1700519	21.8	42
489	Diketopyrrolopyrrole-Based Conjugated Polymers with Perylene Bisimide Side Chains for Single-Component Organic Solar Cells. <i>Chemistry of Materials</i> , 2017 , 29, 7073-7077	9.6	63
488	"Double-Cable" Conjugated Polymers with Linear Backbone toward High Quantum Efficiencies in Single-Component Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2017 , 139, 18647-18656	16.4	86
487	The Role of the Axial Substituent in Subphthalocyanine Acceptors for Bulk-Heterojunction Solar Cells. <i>Angewandte Chemie</i> , 2017 , 129, 154-158	3.6	22
486	The Role of the Axial Substituent in Subphthalocyanine Acceptors for Bulk-Heterojunction Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 148-152	16.4	85
485	Ultrafast Charge and Triplet State Formation in Diketopyrrolopyrrole Low Band Gap Polymer/Fullerene Blends: Influence of Nanoscale Morphology of Organic Photovoltaic Materials on Charge Recombination to the Triplet State. <i>Journal of Spectroscopy</i> , 2017 , 2017, 1-16	1.5	18
484	Effect of Alkyl Side Chains of Conjugated Polymer Donors on the Device Performance of Non-Fullerene Solar Cells. <i>Macromolecules</i> , 2016 , 49, 6445-6454	5.5	70
483	High open circuit voltage polymer solar cells enabled by employing thiazoles in semiconducting polymers. <i>Polymer Chemistry</i> , 2016 , 7, 5730-5738	4.9	25
482	Toward Practical Useful Polymers for Highly Efficient Solar Cells via a Random Copolymer Approach. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10782-5	16.4	90
481	Dichotomous Role of Exciting the Donor or the Acceptor on Charge Generation in Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10026-31	16.4	53
480	Pulse-modulated multilevel data storage in an organic ferroelectric resistive memory diode. <i>Scientific Reports</i> , 2016 , 6, 24407	4.9	29
479	Evidence for exciton quenching by hole polarons in thick P3HT:PCBM solar cells 2016 ,		1
478	Reply to 'Tandem organic solar cells revisited'. <i>Nature Photonics</i> , 2016 , 10, 355-355	33.9	4
477	Transition dipole moment orientation in films of solution processed fluorescent oligomers: investigating the influence of molecular anisotropy. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6302-6308	7.1	16
476	Structure-property relationships for bis-diketopyrrolopyrrole molecules in organic photovoltaics. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10532-10541	13	26
475	Highly Efficient Hybrid Polymer and Amorphous Silicon Multijunction Solar Cells with Effective Optical Management. <i>Advanced Materials</i> , 2016 , 28, 2170-7	24	34
474	Data retention in organic ferroelectric resistive switches. <i>Organic Electronics</i> , 2016 , 31, 56-62	3.5	14

473	Conjugated polymer with ternary electron-deficient units for ambipolar nanowire field-effect transistors. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 34-38	2.5	18
472	Optimized light-driven electrochemical water splitting with tandem polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5107-5114	13	22
471	Effect of side chain length on the charge transport, morphology, and photovoltaic performance of conjugated polymers in bulk heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1855-1866	12	65
470	Diketopyrrolopyrrole Polymers for Organic Solar Cells. <i>Accounts of Chemical Research</i> , 2016 , 49, 78-85	24.3	385
469	The effect of branching in a semiconducting polymer on the efficiency of organic photovoltaic cells. <i>Chemical Communications</i> , 2016 , 52, 92-5	5.8	13
468	Electro-optical Properties of Neutral and Radical Ion Thienosquaraines. <i>Chemistry - A European Journal</i> , 2016 , 22, 10179-86	4.8	22
467	Ambipolar Organic Tri-Gate Transistor for Low-Power Complementary Electronics. <i>Advanced Materials</i> , 2016 , 28, 284-90	24	33
466	Asymmetric Diketopyrrolopyrrole Conjugated Polymers for Field-Effect Transistors and Polymer Solar Cells Processed from a Nonchlorinated Solvent. <i>Advanced Materials</i> , 2016 , 28, 943-50	24	128
465	Effect of Förster-mediated triplet-polaron quenching and triplet-triplet annihilation on the efficiency roll-off of organic light-emitting diodes. <i>Journal of Applied Physics</i> , 2016 , 119, 163102	2.5	29
464	Dielectric interface-dependent spatial charge distribution in ambipolar polymer semiconductors embedded in dual-gate field-effect transistors. <i>Applied Physics Letters</i> , 2016 , 109, 043301	3.4	6
463	Perfluoroalkyl-substituted conjugated polymers as electron acceptors for all-polymer solar cells: the effect of diiodoperfluoroalkane additives. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7736-7745	13	25
462	Water Splitting with Series-Connected Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 26972-26981	9.5	9
461	High Performance All-Polymer Solar Cells by Synergistic Effects of Fine-Tuned Crystallinity and Solvent Annealing. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10935-44	16.4	362
460	True ferroelectric switching in thin films of trialkylbenzene-1,3,5-tricarboxamide (BTA). <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 23663-72	3.6	30
459	Polymer solar cells with a near-infrared spectral response. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6756-6760	13	34
458	Characterization of tandem organic solar cells. <i>Nature Photonics</i> , 2015 , 9, 478-479	33.9	42
457	The Importance of Moisture in Hybrid Lead Halide Perovskite Thin Film Fabrication. <i>ACS Nano</i> , 2015 , 9, 9380-93	16.7	366
456	Large-area soft-imprinted nanowire networks as light trapping transparent conductors. <i>Scientific Reports</i> , 2015 , 5, 11414	4.9	44

455	Conjugated polymers with deep LUMO levels for field-effect transistors and polymer/polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 8255-8261	7.1	18
454	Synthesis, characterization and device optimisation of new poly(benzo[1,2-b:4,5-b']dithiophene-alt-thieno[3,4-d]thiazole) derivatives for solar cell applications. <i>Polymer Chemistry</i> , 2015 , 6, 3956-3961	4.9	4
453	Fundamental Tradeoff between Emission Intensity and Efficiency in Light-Emitting Electrochemical Cells. <i>Advanced Functional Materials</i> , 2015 , 25, 3066-3073	15.6	49
452	Effects of Cross-Conjugation on the Optical Absorption and Frontier Orbital Levels of Donor-Acceptor Polymers. <i>Macromolecules</i> , 2015 , 48, 2435-2443	5.5	25
451	Photoelectrochemical water splitting in an organic artificial leaf. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23936-23945	13	51
450	Electrical conduction of LiF interlayers in organic diodes. <i>Journal of Applied Physics</i> , 2015 , 117, 155502	2.5	5
449	Failure analysis in ITO-free all-solution processed organic solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20567-20578	13	12
448	Polymer Solar Cells: Solubility Controls Fiber Network Formation. <i>Journal of the American Chemical Society</i> , 2015 , 137, 11783-94	16.4	113
447	Kinetic Monte Carlo Study of the Sensitivity of OLED Efficiency and Lifetime to Materials Parameters. <i>Advanced Functional Materials</i> , 2015 , 25, 2024-2037	15.6	73
446	Controlling the Dominant Length Scale of Liquid-Liquid Phase Separation in Spin-coated Organic Semiconductor Films. <i>Advanced Functional Materials</i> , 2015 , 25, 855-863	15.6	43
445	Depositing Fullerenes in Swollen Polymer Layers via Sequential Processing of Organic Solar Cells. <i>Advanced Energy Materials</i> , 2015 , 5, 1500464	21.8	34
444	High Performance Polymer Nanowire Field-Effect Transistors with Distinct Molecular Orientations. <i>Advanced Materials</i> , 2015 , 27, 4963-8	24	68
443	3D-morphology reconstruction of nanoscale phase-separation in polymer memory blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015 , 53, 1231-1237	2.6	12
442	Wide-Bandgap Benzodithiophene-Benzothiadiazole Copolymers for Highly Efficient Multijunction Polymer Solar Cells. <i>Advanced Materials</i> , 2015 , 27, 4461-4468	24	95
441	Stochastic modeling and predictive simulations for the microstructure of organic semiconductor films processed with different spin coating velocities. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2015 , 23, 045003	2	13
440	Deep absorbing porphyrin small molecule for high-performance organic solar cells with very low energy losses. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7282-5	16.4	396
439	High quantum efficiencies in polymer solar cells at energy losses below 0.6 eV. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2231-4	16.4	334
438	A real-time study of the benefits of co-solvents in polymer solar cell processing. <i>Nature Communications</i> , 2015 , 6, 6229	17.4	244

437	A regioregular terpolymer comprising two electron-deficient and one electron-rich unit for ultra small band gap solar cells. <i>Chemical Communications</i> , 2015 , 51, 4290-3	5.8	44
436	Surface Directed Phase Separation of Semiconductor Ferroelectric Polymer Blends and their Use in Non-Volatile Memories. <i>Advanced Functional Materials</i> , 2015 , 25, 278-286	15.6	39
435	CHAPTER 11:Multi-Junction Polymer Solar Cells. <i>RSC Polymer Chemistry Series</i> , 2015 , 310-351	1.3	2
434	Polymer solar cells with diketopyrrolopyrrole conjugated polymers as the electron donor and electron acceptor. <i>Advanced Materials</i> , 2014 , 26, 3304-9	24	221
433	Wide band gap diketopyrrolopyrrole-based conjugated polymers incorporating biphenyl units applied in polymer solar cells. <i>Chemical Communications</i> , 2014 , 50, 679-81	5.8	62
432	High balanced ambipolar charge carrier mobility in benzodipyrrolidone conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 731-735	7.1	32
431	Influence of the Position of the Side Chain on Crystallization and Solar Cell Performance of DPP-Based Small Molecules. <i>Chemistry of Materials</i> , 2014 , 26, 916-926	9.6	104
430	Comparing random and regular diketopyrrolopyrroleBithiopheneBithienopyrrolodione terpolymers for organic photovoltaics. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17899-17905	13	70
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