

# Alex K-Y Jen

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/11521256/alex-k-y-jen-publications-by-year.pdf>  
**Version:** 2024-04-10

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.

610 papers	51,788 citations	119 h-index	200 g-index
631 ext. papers	57,016 ext. citations	11.5 avg, IF	8 L-index

#	Paper	IF	Citations
610	Highly efficient and stable perovskite solar cells enabled by low-dimensional perovskitoids.. <i>Science Advances</i> , <b>2022</b> , 8, eabk2722	14.3	14
609	Enabling high-performance, centimeter-scale organic solar cells through three-dimensional charge transport. <i>Cell Reports Physical Science</i> , <b>2022</b> , 100761	6.1	0
608	The synergistic effects of central core size and end group engineering on performance of narrow bandgap nonfullerene acceptors. <i>Chemical Engineering Journal</i> , <b>2022</b> , 435, 135020	14.7	0
607	Near-infrared absorbing polymer acceptors enabled by selenophene-fused core and halogenated end-group for binary all-polymer solar cells with efficiency over 16%. <i>Nano Energy</i> , <b>2022</b> , 92, 106718	17.1	15
606	An effective and economical encapsulation method for trapping lead leakage in rigid and flexible perovskite photovoltaics. <i>Nano Energy</i> , <b>2022</b> , 93, 106853	17.1	15
605	Interface Engineering in Solution-Processed Thin-Film Solar Cells. <i>Accounts of Materials Research</i> , <b>2022</b> , 3, 272-282	7.5	0
604	Self-assembled Monolayer Enabling Improved Buried Interfaces in Blade-coated Perovskite Solar Cells for High Efficiency and Stability <b>2022</b> , 4		10
603	The molecular ordering and double channel carrier generation of non-fullerene photovoltaics within multi-length-scale morphology.. <i>Advanced Materials</i> , <b>2022</b> , e2108317	24	16
602	Side-Chain Substituents on Benzotriazole-Based Polymer Acceptors Affecting the Performance of All-Polymer Solar Cells.. <i>Macromolecular Rapid Communications</i> , <b>2022</b> , e2200062	4.8	1
601	16.3% Efficiency binary all-polymer solar cells enabled by a novel polymer acceptor with an asymmetrical selenophene-fused backbone. <i>Science China Chemistry</i> , <b>2022</b> , 65, 309-317	7.9	12
600	Sulfonated Graphene Aerogels Enable Safe-to-Use Flexible Perovskite Solar Modules. <i>Advanced Energy Materials</i> , <b>2022</b> , 12, 2103236	21.8	17
599	Efficient and stable Cs <sub>2</sub> AgBiBr <sub>6</sub> double perovskite solar cells through in-situ surface modulation. <i>Chemical Engineering Journal</i> , <b>2022</b> , 446, 137144	14.7	5
598	The evolution and future of metal halide perovskite-based optoelectronic devices. <i>Matter</i> , <b>2021</b> , 4, 3814-3834	13.34	6
597	Designs from single junctions, heterojunctions to multijunctions for high-performance perovskite solar cells. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 13090-13128	58.5	23
596	Enabling High Efficiency of Hydrocarbon-Solvent Processed Organic Solar Cells through Balanced Charge Generation and Non-Radiative Loss. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101768	21.8	18
595	Selenium-Containing Organic Photovoltaic Materials. <i>Accounts of Chemical Research</i> , <b>2021</b> , 54, 3906-3916	14.3	15
594	Low-Bandgap Organic Bulk-Heterojunction Enabled Efficient and Flexible Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2021</b> , 33, e2105539	24	27

593	Regulating the Aggregation of Unfused Non-Fullerene Acceptors via Molecular Engineering towards Efficient Polymer Solar Cells. <i>ChemSusChem</i> , <b>2021</b> , 14, 3579-3589	8.3	8
592	Multi-Selenophene-Containing Narrow Bandgap Polymer Acceptors for All-Polymer Solar Cells with over 15 % Efficiency and High Reproducibility. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 16071-16079	3.6	0
591	Multi-Selenophene-Containing Narrow Bandgap Polymer Acceptors for All-Polymer Solar Cells with over 15 % Efficiency and High Reproducibility. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 15935-15943	16.4	54
590	Over 16% Efficiency of Thick-Film Organic Photovoltaics with Symmetric and Asymmetric Non-Fullerene Materials as Alloyed Acceptor. <i>Solar Rrl</i> , <b>2021</b> , 5, 2100365	7.1	6
589	Asymmetric Isomer Effects in Benzo[c][1,2,5]thiadiazole-Fused Nonacyclic Acceptors: Dielectric Constant and Molecular Crystallinity Control for Significant Photovoltaic Performance Enhancement. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2104369	15.6	15
588	All-Inorganic CsPbI <sub>3</sub> Quantum Dot Solar Cells with Efficiency over 16% by Defect Control. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2005930	15.6	42
587	Over 17% Efficiency Binary Organic Solar Cells with Photoresponses Reaching 1000 nm Enabled by Selenophene-Fused Nonfullerene Acceptors. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 9-15	20.1	79
586	Dopant-free dicyanofluoranthene-based hole transporting material with low cost enables efficient flexible perovskite solar cells. <i>Nano Energy</i> , <b>2021</b> , 82, 105701	17.1	35
585	Asymmetric Acceptors Enabling Organic Solar Cells to Achieve an over 17% Efficiency: Conformation Effects on Regulating Molecular Properties and Suppressing Nonradiative Energy Loss. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003177	21.8	61
584	Improved stability and efficiency of perovskite/organic tandem solar cells with an all-inorganic perovskite layer. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 19778-19787	13	13
583	Pseudo-bilayer architecture enables high-performance organic solar cells with enhanced exciton diffusion length. <i>Nature Communications</i> , <b>2021</b> , 12, 468	17.4	61
582	Modifying Surface Termination of CsPbI <sub>3</sub> Grain Boundaries by 2D Perovskite Layer for Efficient and Stable Photovoltaics. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009515	15.6	24
581	High-Efficiency Quasi-2D Perovskite Solar Cells Incorporating 2,2'-Biimidazolium Cation. <i>Solar Rrl</i> , <b>2021</b> , 5, 2000700	7.1	3
580	Efficient Inverted Perovskite Solar Cells with Low Voltage Loss Achieved by a Pyridine-Based Dopant-Free Polymer Semiconductor. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 7227-7233	16.4	42
579	Efficient Inverted Perovskite Solar Cells with Low Voltage Loss Achieved by a Pyridine-Based Dopant-Free Polymer Semiconductor. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 7303-7309	3.6	8
578	High Efficiency (15.8%) All-Polymer Solar Cells Enabled by a Regioregular Narrow Bandgap Polymer Acceptor. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 2665-2670	16.4	112
577	Synergistical Dipole-Dipole Interaction Induced Self-Assembly of Phenoxazine-Based Hole-Transporting Materials for Efficient and Stable Inverted Perovskite Solar Cells. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 20600-20605	3.6	1
576	Synergistical Dipole-Dipole Interaction Induced Self-Assembly of Phenoxazine-Based Hole-Transporting Materials for Efficient and Stable Inverted Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 20437-20442	16.4	13

575	Design of Superhydrophobic Surfaces for Stable Perovskite Solar Cells with Reducing Lead Leakage. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2102281	21.8	15
574	Highly efficient and stable perovskite solar cells enabled by a fluoro-functionalized TiO <sub>2</sub> inorganic interlayer. <i>Matter</i> , <b>2021</b> ,	12.7	8
573	Regiospecific -alkyl substitution tunes the molecular packing of high-performance non-fullerene acceptors. <i>Materials Horizons</i> , <b>2021</b> ,	14.4	5
572	Dilution effect for highly efficient multiple-component organic solar cells. <i>Nature Nanotechnology</i> , <b>2021</b> ,	28.7	16
571	Narrow Bandpass and Efficient Semitransparent Organic Solar Cells Based on Bioinspired Spectrally Selective Electrodes. <i>ACS Nano</i> , <b>2020</b> , 14, 5998-6006	16.7	22
570	Interfacial Modification through a Multifunctional Molecule for Inorganic Perovskite Solar Cells with over 18% Efficiency. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000205	7.1	22
569	Dopant-Free Crossconjugated Hole-Transporting Polymers for Highly Efficient Perovskite Solar Cells. <i>Advanced Science</i> , <b>2020</b> , 7, 1903331	13.6	29
568	Hybrid Quantum Dot/Organic Heterojunction: A Route to Improve Open-Circuit Voltage in PbS Colloidal Quantum Dot Solar Cells. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2335-2342	20.1	33
567	Biomimetic Electrodes for Flexible Organic Solar Cells with Efficiencies over 16%. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2000669	8.1	25
566	Synthesis of a side-chain hole transporting polymer through Mitsunobu post-functionalization for efficient inverted perovskite solar cells. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 2883-2888	4.9	3
565	The role of dipole moment in two fused-ring electron acceptor and one polymer donor based ternary organic solar cells. <i>Materials Chemistry Frontiers</i> , <b>2020</b> , 4, 1507-1518	7.8	13
564	Low-Bandgap Porphyrins for Highly Efficient Organic Solar Cells: Materials, Morphology, and Applications. <i>Advanced Materials</i> , <b>2020</b> , 32, e1906129	24	78
563	Coordination Engineering of Single-Crystal Precursor for Phase Control in Ruddlesden-Popper Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1904050	21.8	30
562	As-Cast Ternary Organic Solar Cells Based on an Asymmetric Side-Chains Featured Acceptor with Reduced Voltage Loss and 14.0% Efficiency. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909535	15.6	33
561	A silicon-organic hybrid platform for quantum microwave-to-optical transduction. <i>Quantum Science and Technology</i> , <b>2020</b> , 5, 034004	5.5	15
560	Vertical Orientated Dion-Jacobson Quasi-2D Perovskite Film with Improved Photovoltaic Performance and Stability. <i>Small Methods</i> , <b>2020</b> , 4, 1900831	12.8	52
559	Boosting Efficiency of Near-Infrared Organic Light-Emitting Diodes with Os(II)-Based Pyrazinyl Azolate Emitters. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1906738	15.6	33
558	Roles of Ancillary Chelates and Overall Charges of Bis-tridentate Ir(III) Phosphors for OLED Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 1084-1093	9.5	20

557	High-performance organic second- and third-order nonlinear optical materials for ultrafast information processing. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 15009-15026	7.1	34
556	Minimized surface deficiency on wide-bandgap perovskite for efficient indoor photovoltaics. <i>Nano Energy</i> , <b>2020</b> , 78, 105377	17.1	32
555	Regulating Surface Termination for Efficient Inverted Perovskite Solar Cells with Greater Than 23% Efficiency. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 20134-20142	16.4	185
554	Adding a Third Component with Reduced Miscibility and Higher LUMO Level Enables Efficient Ternary Organic Solar Cells. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2711-2720	20.1	137
553	Methoxy-substituted bis-tridentate iridium(III) phosphors and fabrication of blue organic light emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 13590-13602	7.1	9
552	2D metal-organic framework for stable perovskite solar cells with minimized lead leakage. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 934-940	28.7	119
551	Approaching 16% Efficiency in All-Small-Molecule Organic Solar Cells Based on Ternary Strategy with a Highly Crystalline Acceptor. <i>Joule</i> , <b>2020</b> , 4, 2223-2236	27.8	93
550	A Non-fullerene Acceptor with Enhanced Intermolecular $\pi$ -Core Interaction for High-Performance Organic Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 15246-15251	16.4	138
549	A Generally Applicable Approach Using Sequential Deposition to Enable Highly Efficient Organic Solar Cells. <i>Small Methods</i> , <b>2020</b> , 4, 2000687	12.8	56
548	Asymmetrical side-chain engineering of small-molecule acceptors enable high-performance nonfullerene organic solar cells. <i>Nano Energy</i> , <b>2020</b> , 67, 104209	17.1	22
547	Cationic Polyelectrolyte for Anionic Cyanines: An Efficient Way To Translate Molecular Properties into Material Properties. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 17331-17336	16.4	3
546	On understanding bandgap bowing and optoelectronic quality in PbSn alloy hybrid perovskites. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 16285-16293	13	39
545	Fused selenophene-thieno[3,2-b]thiophene-selenophene (ST)-based narrow-bandgap electron acceptor for efficient organic solar cells with small voltage loss. <i>Chemical Communications</i> , <b>2019</b> , 55, 8258-8261	5.8	34
544	Tailoring the Functionality of Organic Spacer Cations for Efficient and Stable Quasi-2D Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1900221	15.6	94
543	Random copolymerization realized high efficient polymer solar cells with a record fill factor near 80%. <i>Nano Energy</i> , <b>2019</b> , 61, 228-235	17.1	23
542	Plasmonic Metal Nanoparticles with Core-Shell Structure for High-Performance Organic and Perovskite Solar Cells. <i>ACS Nano</i> , <b>2019</b> , 13, 5397-5409	16.7	61
541	Photoinduced Charge Transfer in Single-Molecule p-n Junctions. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 2175-2181	6.4	8
540	Efficient large guanidinium mixed perovskite solar cells with enhanced photovoltage and low energy losses. <i>Chemical Communications</i> , <b>2019</b> , 55, 4315-4318	5.8	85

539	Over 12% Efficiency Nonfullerene All-Small-Molecule Organic Solar Cells with Sequentially Evolved Multilength Scale Morphologies. <i>Advanced Materials</i> , <b>2019</b> , 31, e1807842	24	228
538	Regio-Specific Selenium Substitution in Non-Fullerene Acceptors for Efficient Organic Solar Cells. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 6770-6778	9.6	41
537	Highly Efficient Semitransparent Solar Cells with Selective Absorption and Tandem Architecture. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901683	24	61
536	Realization of Highly Efficient Red Phosphorescence from Bis-Tridentate Iridium(III) Phosphors. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 10944-10954	5.1	24
535	Trihydrazine Dihydriodide-Assisted Fabrication of Efficient Formamidinium Tin Iodide Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900285	7.1	25
534	Boosting the Performance of Environmentally Friendly Quantum Dot-Sensitized Solar Cells over 13% Efficiency by Dual Sensitizers with Cascade Energy Structure. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903634	24	37
533	A 0D/3D Heterostructured All-Inorganic Halide Perovskite Solar Cell with High Performance and Enhanced Phase Stability. <i>Advanced Materials</i> , <b>2019</b> , 31, e1904735	24	77
532	A Dopant-Free Polymeric Hole-Transporting Material Enabled High Fill Factor Over 81% for Highly Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1902600	21.8	52
531	Recent advances in molecular design of functional conjugated polymers for high-performance polymer solar cells. <i>Progress in Polymer Science</i> , <b>2019</b> , 99, 101175	29.6	83
530	Nonlinear refraction and absorption measurements of thin films by the dual-arm Z-scan method. <i>Applied Optics</i> , <b>2019</b> , 58, D28-D33	1.7	3
529	Boosting Photovoltaic Performance for Lead Halide Perovskites Solar Cells with BF <sub>4</sub> <sup>-</sup> Anion Substitutions. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808833	15.6	62
528	Improved Efficiency and Stability of Pb/Sn Binary Perovskite Solar Cells Fabricated by Galvanic Displacement Reaction. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1802774	21.8	48
527	Phenyl- and Pyrazolyl-Functionalized Pyrimidine: Versatile Chromophore of Bis-Tridentate Ir(III) Phosphors for Organic Light-Emitting Diodes. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 6453-6464	9.6	29
526	A1-A2 Type Wide Bandgap Polymers for High-Performance Polymer Solar Cells: Energy Loss and Morphology. <i>Solar Rrl</i> , <b>2019</b> , 3, 1800291	7.1	15
525	Fullerene-Anchored Core-Shell ZnO Nanoparticles for Efficient and Stable Dual-Sensitized Perovskite Solar Cells. <i>Joule</i> , <b>2019</b> , 3, 417-431	27.8	44
524	Reducing Surface Recombination Velocities at the Electrical Contacts Will Improve Perovskite Photovoltaics. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 222-227	20.1	96
523	Nonhalogen Solvent-Processed Asymmetric Wide-Bandgap Polymers for Nonfullerene Organic Solar Cells with Over 10% Efficiency. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706517	15.6	57
522	Design, synthesis, and properties of nonlinear optical chromophores based on a verbenone bridge with a novel dendritic acceptor. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 2840-2847	7.1	21

521	Silicon-Organic Hybrid (SOH) Mach-Zehnder Modulators for 100 Gbit/s on-off Keying. <i>Scientific Reports</i> , <b>2018</b> , 8, 2598	4.9	50
520	Non-fullerene acceptors for organic solar cells. <i>Nature Reviews Materials</i> , <b>2018</b> , 3,	73.3	1634
519	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> , <b>2018</b> , 140, 2054-2057	16.4	322
518	Terthieno[3,2-b]Thiophene (6T) Based Low Bandgap Fused-Ring Electron Acceptor for Highly Efficient Solar Cells with a High Short-Circuit Current Density and Low Open-Circuit Voltage Loss. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702831	21.8	82
517	Tunable Band Gap and Long Carrier Recombination Lifetime of Stable Mixed CH <sub>3</sub> NH <sub>3</sub> PbxSn <sub>1-x</sub> Br <sub>3</sub> Single Crystals. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 1556-1565	9.6	63
516	Low-Temperature Solution-Processed CuCrO <sub>2</sub> Hole-Transporting Layer for Efficient and Photostable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702762	21.8	100
515	Realizing Efficient Lead-Free Formamidinium Tin Triiodide Perovskite Solar Cells via a Sequential Deposition Route. <i>Advanced Materials</i> , <b>2018</b> , 30, 1703800	24	151
514	Enhancing Defect Tolerance and Phase Stability of High-Bandgap Perovskites via Guanidinium Alloying. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1261-1268	20.1	78
513	Ultra-efficient and stable electro-optic dendrimers containing supramolecular homodimers of semifluorinated dipolar aromatics. <i>Materials Chemistry Frontiers</i> , <b>2018</b> , 2, 901-909	7.8	37
512	Photochemical changes in absorption and fluorescence of DDM-containing epoxies. <i>Polymer</i> , <b>2018</b> , 142, 11-22	3.9	4
511	Mechanochemical changes in absorption and fluorescence of DDM-containing epoxies. <i>Polymer</i> , <b>2018</b> , 142, 132-143	3.9	6
510	Tackling Energy Loss for High-Efficiency Organic Solar Cells with Integrated Multiple Strategies. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706816	24	75
509	Enhanced crystallization and performance of formamidinium lead triiodide perovskite solar cells through PbI <sub>2</sub> -SrCl <sub>2</sub> modulation. <i>Materials Today Energy</i> , <b>2018</b> , 7, 239-245	7	9
508	Enhancing efficiency of perovskite solar cells by reducing defects through imidazolium cation incorporation. <i>Materials Today Energy</i> , <b>2018</b> , 7, 161-168	7	31
507	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> , <b>2018</b> , 28, 1802324	15.6	99
506	Bis-Tridentate Iridium(III) Phosphors with Very High Photostability and Fabrication of Blue-Emitting OLEDs. <i>Advanced Science</i> , <b>2018</b> , 5, 1800846	13.6	50
505	Tuning H- and J-Aggregate Behavior in $\pi$ -Conjugated Polymers via Noncovalent Interactions. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 18860-18869	3.8	23
504	Solution-Processed Low-Bandgap CuIn(S,Se) <sub>2</sub> Absorbers for High-Efficiency Single-Junction and Monolithic Chalcopyrite-Perovskite Tandem Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801254	21.8	37

503	Ternary non-fullerene polymer solar cells with 13.51% efficiency and a record-high fill factor of 78.13%. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 3392-3399	35.4	122
502	Highly Efficient Organic Solar Cells Based on S,N-Heteroacene Non-Fullerene Acceptors. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5429-5434	9.6	158
501	Thermochromic Polymer Film Sensors for Detection of Incipient Thermal Damage in Carbon Fiber/Epoxy Composites. <i>Sensors</i> , <b>2018</b> , 18,	3.8	4
500	Long-Lived, Non-Geminate, Radiative Recombination of Photogenerated Charges in a Polymer/Small-Molecule Acceptor Photovoltaic Blend. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 9996-10008	16.4	61
499	Inorganic CsPb1-xSnxI3 for Efficient Wide-Bandgap Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800525	21.8	154
498	Overcoming the Photovoltage Plateau in Large Bandgap Perovskite Photovoltaics. <i>Nano Letters</i> , <b>2018</b> , 18, 3985-3993	11.5	72
497	Achieving Fully Blade-Coated Ambient-Processed Perovskite Solar Cells by Controlling the Blade-Coater Temperature. <i>IEEE Journal of Photovoltaics</i> , <b>2018</b> , 8, 1662-1669	3.7	10
496	Two-Dimensional Perovskite Solar Cells with 14.1% Power Conversion Efficiency and 0.68% External Radiative Efficiency. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2086-2093	20.1	180
495	Intensive Exposure of Functional Rings of a Polymeric Hole-Transporting Material Enables Efficient Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2018</b> , 30, e1804028	24	77
494	Pseudohalide-Induced Recrystallization Engineering for CH3NH3PbI3 Film and Its Application in Highly Efficient Inverted Planar Heterojunction Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1704836	15.6	92
493	Highly Efficient and Stable Perovskite Solar Cells Enabled by All-Crosslinked Charge-Transporting Layers. <i>Joule</i> , <b>2018</b> , 2, 168-183	27.8	84
492	Quantifying Efficiency Loss of Perovskite Solar Cells by a Modified Detailed Balance Model. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701586	21.8	64
491	Thick TiO2-Based Top Electron Transport Layer on Perovskite for Highly Efficient and Stable Solar Cells. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2891-2898	20.1	55
490	Bandwidth Optimization for Mach-Zehnder Polymer/Sol-Gel Modulators. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 4181-4189	4	12
489	Near-Infrared Electron Acceptors with Fluorinated Regioisomeric Backbone for Highly Efficient Polymer Solar Cells. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803769	24	102
488	Unexpectedly Slow Yet Efficient Picosecond to Nanosecond Photoinduced Hole-Transfer Occurs in a Polymer/Nonfullerene Acceptor Organic Photovoltaic Blend. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2396-2403	20.1	49
487	Blue-emitting bis-tridentate Ir(III) phosphors: OLED performances vs. substituent effects. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 10486-10496	7.1	14
486	Possible interfacial ion/charge accumulation in thin-film perovskite/fullerene surfactant planar heterojunction solar cells. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 504001	3	3

485	Di-Spiro-Based Hole-Transporting Materials for Highly Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800809	21.8	67
484	Mapping Nonfullerene Acceptors with a Novel Wide Bandgap Polymer for High Performance Polymer Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801214	21.8	40
483	Toward Perovskite Solar Cell Commercialization: A Perspective and Research Roadmap Based on Interfacial Engineering. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800455	24	244
482	Toward All Room-Temperature, Solution-Processed, High-Performance Planar Perovskite Solar Cells: A New Scheme of Pyridine-Promoted Perovskite Formation. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604695	24	142
481	Solution-processed chalcopyrite-perovskite tandem solar cells in bandgap-matched two- and four-terminal architectures. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 3214-3220	13	19
480	Ascorbic acid as an effective antioxidant additive to enhance the efficiency and stability of Pb/Sn-based binary perovskite solar cells. <i>Nano Energy</i> , <b>2017</b> , 34, 392-398	17.1	120
479	SrCl Derived Perovskite Facilitating a High Efficiency of 16% in Hole-Conductor-Free Fully Printable Mesoscopic Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606608	24	119
478	New push-pull polyene chromophores containing a Michler's base donor and a tricyanofuran acceptor: multicomponent condensation, allopolar isomerism and large optical nonlinearity. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 2230-2234	7.1	22
477	Low-temperature electrodeposited crystalline SnO <sub>2</sub> as an efficient electron-transporting layer for conventional perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 164, 47-55	6.4	57
476	Molecular Engineered Hole-Extraction Materials to Enable Dopant-Free, Efficient p-i-n Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700012	21.8	159
475	Tailor-Making Low-Cost Spiro[fluorene-9,9'-xanthene]-Based 3D Oligomers for Perovskite Solar Cells. <i>Chem</i> , <b>2017</b> , 2, 676-687	16.2	176
474	High-Performance Near-IR Photodetector Using Low-Bandgap MA <sub>0.5</sub> FA <sub>0.5</sub> Pb <sub>0.5</sub> Sn <sub>0.5</sub> I <sub>3</sub> Perovskite. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701053	15.6	77
473	A regioregular conjugated polymer for high performance thick-film organic solar cells without processing additive. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 10517-10525	13	38
472	Spiro-Phenylpyrazole-9,9'-Thioxanthene Analogues as Hole-Transporting Materials for Efficient Planar Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700823	21.8	58
471	Ag-Incorporated Organic-Inorganic Perovskite Films and Planar Heterojunction Solar Cells. <i>Nano Letters</i> , <b>2017</b> , 17, 3231-3237	11.5	127
470	Increased electro-optic effect in a guest-host electro-optic polymer by adding PEDOT:PSS as an interfacial barrier layer. <i>Journal of Optics (United Kingdom)</i> , <b>2017</b> , 19, 045503	1.7	
469	Mechanochromic fluorescence in epoxy as a detection method for barely visible impact damage in CFRP composites. <i>Composites Science and Technology</i> , <b>2017</b> , 139, 74-82	8.6	23
468	Room temperature formation of organic-inorganic lead halide perovskites: design of nanostructured and highly reactive intermediates. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 3599-3608	13	36

467	CuGaO : A Promising Inorganic Hole-Transporting Material for Highly Efficient and Stable Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604984	24	222
466	Doping Versatile n-Type Organic Semiconductors via Room Temperature Solution-Processable Anionic Dopants. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 1136-1144	9.5	28
465	Defect Passivation via a Graded Fullerene Heterojunction in Low-Bandgap PbSn Binary Perovskite Photovoltaics. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 2531-2539	20.1	90
464	Design of a Highly Crystalline Low-Band Gap Fused-Ring Electron Acceptor for High-Efficiency Solar Cells with Low Energy Loss. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 8369-8376	9.6	156
463	Effects of Self-Assembled Monolayer Modification of Nickel Oxide Nanoparticles Layer on the Performance and Application of Inverted Perovskite Solar Cells. <i>ChemSusChem</i> , <b>2017</b> , 10, 3794-3803	8.3	116
462	Enhanced Moisture Stability of Cesium-Containing Compositional Perovskites by a Feasible Interfacial Engineering. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1700598	4.6	49
461	Boosting performance of inverted organic solar cells by using a planar coronene based electron-transporting layer. <i>Nano Energy</i> , <b>2017</b> , 39, 454-460	17.1	33
460	Current-Induced Phase Segregation in Mixed Halide Hybrid Perovskites and its Impact on Two-Terminal Tandem Solar Cell Design. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1841-1847	20.1	135
459	Highly Efficient Perovskite-Perovskite Tandem Solar Cells Reaching 80% of the Theoretical Limit in Photovoltage. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702140	24	210
458	High-Efficiency Nonfullerene Organic Solar Cells with a Parallel Tandem Configuration. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702547	24	64
457	4-Tert-butylpyridine Free Organic Hole Transporting Materials for Stable and Efficient Planar Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700683	21.8	91
456	A copper-doped nickel oxide bilayer for enhancing efficiency and stability of hysteresis-free inverted mesoporous perovskite solar cells. <i>Nano Energy</i> , <b>2017</b> , 40, 155-162	17.1	112
455	Ideal Bandgap Organic-Inorganic Hybrid Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2017</b> , 29, 1704418	24	103
454	Highly Efficient Porphyrin-Based OPV/Perovskite Hybrid Solar Cells with Extended Photoresponse and High Fill Factor. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703980	24	148
453	Mixed Cation FAXPEA1xPbI3 with Enhanced Phase and Ambient Stability toward High-Performance Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601307	21.8	237
452	Effect of Molecular Orientation of Donor Polymers on Charge Generation and Photovoltaic Properties in Bulk Heterojunction All-Polymer Solar Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601365	21.8	48
451	Highly sensitive thermal damage sensors for polymer composites: time temperature indicator based on thermochromic fluorescence turn-on response. <i>Smart Materials and Structures</i> , <b>2017</b> , 26, 085039	3.4	12
450	Silicon-organic hybrid (SOH) modulators for intensity-modulation / direct-detection links with line rates of up to 120 Gbit/s. <i>Optics Express</i> , <b>2017</b> , 25, 23784-23800	3.3	32

449	Efficient wafer-scale poling of electro-optic polymer thin films on soda-lime glass substrates: large second-order nonlinear coefficients and exceptional homogeneity of optical birefringence. <i>Optical Materials Express</i> , <b>2017</b> , 7, 1909	2.6	7
448	Feature issue introduction: organic and polymeric materials for photonic applications. <i>Optical Materials Express</i> , <b>2017</b> , 7, 2691	2.6	
447	RF photonic downconversion of vector modulated signals based on a millimeter-wave coupled electrooptic nonlinear polymer phase-modulator. <i>Optics Express</i> , <b>2017</b> , 25, 29885-29895	3.3	11
446	Ultra-Broadband Mach-Zehnder Hybrid Electro-Optic Polymer/Sol-Gel Silica Waveguide Modulators <b>2017</b> ,		1
445	Highly crystalline Zn <sub>2</sub> SnO <sub>4</sub> nanoparticles as efficient electron-transporting layers toward stable inverted and flexible conventional perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 15294-15307	13	70
444	Stable Low-Bandgap Pb-Sn Binary Perovskites for Tandem Solar Cells. <i>Advanced Materials</i> , <b>2016</b> , 28, 8990-8992	25	4
443	Rational Design of Dipolar Chromophore as an Efficient Dopant-Free Hole-Transporting Material for Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 11833-9	16.4	150
442	Improved Ambient-Stable Perovskite Solar Cells Enabled by a Hybrid Polymeric Electron-Transporting Layer. <i>ChemSusChem</i> , <b>2016</b> , 9, 2586-2591	8.3	24
441	Stabilized Wide Bandgap Perovskite Solar Cells by Tin Substitution. <i>Nano Letters</i> , <b>2016</b> , 16, 7739-7747	11.5	155
440	A Low-Temperature, Solution-Processable Organic Electron-Transporting Layer Based on Planar Coronene for High-performance Conventional Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2016</b> , 28, 10786-10793	24	91
439	Modulation of PEDOT:PSS pH for Efficient Inverted Perovskite Solar Cells with Reduced Potential Loss and Enhanced Stability. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 32068-32076	9.5	132
438	Fluoroalkyl-substituted fullerene/perovskite heterojunction for efficient and ambient stable perovskite solar cells. <i>Nano Energy</i> , <b>2016</b> , 30, 417-425	17.1	61
437	Improved efficiency and stability of PbSn binary perovskite solar cells by Cs substitution. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 17939-17945	13	115
436	Rigidifying Nonplanar Perylene Diimides by Ring Fusion Toward Geometry-Tunable Acceptors for High-Performance Fullerene-Free Solar Cells. <i>Advanced Materials</i> , <b>2016</b> , 28, 951-8	24	222
435	A Low-Temperature, Solution Processable Tin Oxide Electron-Transporting Layer Prepared by the Dual-Fuel Combustion Method for Efficient Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600122	4.6	94
434	Highly Efficient Organic Solar Cells with Improved Vertical Donor-Acceptor Compositional Gradient Via an Inverted Off-Center Spinning Method. <i>Advanced Materials</i> , <b>2016</b> , 28, 967-74	24	240
433	High Performance Optical Modulator Based on Electro-Optic Polymer Filled Silicon Slot Photonic Crystal Waveguide. <i>Journal of Lightwave Technology</i> , <b>2016</b> , 34, 2941-2951	4	63
432	Manipulation of optical field distribution in ITO-free micro-cavity polymer tandem solar cells via the out-of-cell capping layer for high photovoltaic performance. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 961-968	13	14

431	Dopant-Free Hole-Transporting Material with a C <sub>3</sub> h Symmetrical Truxene Core for Highly Efficient Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 2528-31	16.4	395
430	Current Challenges and Prospective Research for Upscaling Hybrid Perovskite Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 811-9	6.4	165
429	Effects of formamidine and bromide ion substitution in methylammonium lead triiodide toward high-performance perovskite solar cells. <i>Nano Energy</i> , <b>2016</b> , 22, 328-337	17.1	152
428	Abnormal Current-Voltage Hysteresis Induced by Reverse Bias in Organic-Inorganic Hybrid Perovskite Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 995-1003	6.4	32
427	Design rules for the broad application of fast (. <i>RSC Advances</i> , <b>2016</b> , 6, 27475-27484	3.7	35
426	Pinhole-Free and Surface-Nanostructured NiO <sub>x</sub> Film by Room-Temperature Solution Process for High-Performance Flexible Perovskite Solar Cells with Good Stability and Reproducibility. <i>ACS Nano</i> , <b>2016</b> , 10, 1503-11	16.7	390
425	Modulate Organic-Metal Oxide Heterojunction via [1,6] Azafulleroid for Highly Efficient Organic Solar Cells. <i>Advanced Materials</i> , <b>2016</b> , 28, 7269-75	24	34
424	Highly Sensitive Built-In Strain Sensors for Polymer Composites: Fluorescence Turn-On Response through Mechanochemical Activation. <i>Advanced Materials</i> , <b>2016</b> , 28, 6592-7	24	48
423	Enhanced Efficiency and Stability of Inverted Perovskite Solar Cells Using Highly Crystalline SnO <sub>2</sub> Nanocrystals as the Robust Electron-Transporting Layer. <i>Advanced Materials</i> , <b>2016</b> , 28, 6478-84	24	382
422	Hexaazatrinaphthylene Derivatives: Efficient Electron-Transporting Materials with Tunable Energy Levels for Inverted Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 8999-9003	16.4	94
421	Zwitterionic Cyanine-Cyanine Salt: Structure and Optical Properties. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 15378-15384	3.8	14
420	Optical Enhancement via Electrode Designs for High-Performance Polymer Solar Cells. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 321-340	15.6	44
419	Development of Self-Doped Conjugated Polyelectrolytes with Controlled Work Functions and Application to Hole Transport Layer Materials for High-Performance Organic Solar Cells. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1500703	4.6	34
418	Large Grained Perovskite Solar Cells Derived from Single-Crystal Perovskite Powders with Enhanced Ambient Stability. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 14513-20	9.5	54
417	Towards a fully packaged high-performance RF sensor featuring slotted photonic crystal waveguides <b>2016</b> ,		1
416	Effects of Counterions with Multiple Charges on the Linear and Nonlinear Optical Properties of Polymethine Salts. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 3115-3121	9.6	21
415	Quasi-three-level model applied to measured spectra of nonlinear absorption and refraction in organic molecules. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2016</b> , 33, 780	1.7	16
414	Defect Passivation of Organic-Inorganic Hybrid Perovskites by Diammonium Iodide toward High-Performance Photovoltaic Devices. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 757-763	20.1	237

4 <sup>13</sup>	PCBM-doped electro-optic materials: investigation of dielectric, optical and electro-optic properties for highly efficient poling. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 10286-10292	7.1	33
4 <sup>12</sup>	A Room-Temperature Processable PDI-Based Electron-Transporting Layer for Enhanced Performance in PDI-Based Non-Fullerene Solar Cells. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600476	4.6	25
4 <sup>11</sup>	Facile Incorporation of Pd(PPh <sub>3</sub> ) <sub>2</sub> Hal Substituents into Polymethines, Merocyanines, and Perylene Diimides as a Means of Suppressing Intermolecular Interactions. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 10112-5	16.4	20
4 <sup>10</sup>	Facile Thiol-Ene Thermal Crosslinking Reaction Facilitated Hole-Transporting Layer for Highly Efficient and Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1601165	21.8	50
4 <sup>09</sup>	Enhanced Ambient Stability of Efficient Perovskite Solar Cells by Employing a Modified Fullerene Cathode Interlayer. <i>Advanced Science</i> , <b>2016</b> , 3, 1600027	13.6	74
4 <sup>08</sup>	Conjugated Polycyanines: A New Class of Materials with Large Third-Order Optical Nonlinearities. <i>Advanced Optical Materials</i> , <b>2015</b> , 3, 900-906	8.1	30
4 <sup>07</sup>	Roles of Fullerene-Based Interlayers in Enhancing the Performance of Organometal Perovskite Thin-Film Solar Cells. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1402321	21.8	255
4 <sup>06</sup>	Navigating Organo-Lead Halide Perovskite Phase Space via Nucleation Kinetics toward a Deeper Understanding of Perovskite Phase Transformations and Structure-Property Relationships. <i>Small</i> , <b>2015</b> , 11, 3088-96	11	47
4 <sup>05</sup>	Photovoltaic performance of ladder-type indacenodithieno[3,2-b]thiophene-based polymers with alkoxyphenyl side chains. <i>RSC Advances</i> , <b>2015</b> , 5, 26680-26685	3.7	7
4 <sup>04</sup>	High-Performance Fully Printable Perovskite Solar Cells via Blade-Coating Technique under the Ambient Condition. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500328	21.8	257
4 <sup>03</sup>	Fluoro-Substituted n-Type Conjugated Polymers for Additive-Free All-Polymer Bulk Heterojunction Solar Cells with High Power Conversion Efficiency of 6.71. <i>Advanced Materials</i> , <b>2015</b> , 27, 3310-7	24	400
4 <sup>02</sup>	Design of a versatile interconnecting layer for highly efficient series-connected polymer tandem solar cells. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1712-1718	35.4	97
4 <sup>01</sup>	Surface-normal plasmonic modulator using sub-wavelength metal grating on electro-optic polymer thin film. <i>Optics Communications</i> , <b>2015</b> , 352, 116-120	2	19
4 <sup>00</sup>	A conductive liquid crystal via facile doping of an n-type benzodifurandione derivative. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 6929-6934	13	14
399	Modulation of hybrid organic-perovskite photovoltaic performance by controlling the excited dynamics of fullerenes. <i>Materials Horizons</i> , <b>2015</b> , 2, 414-419	14.4	22
398	Room-temperature, solution-processable organic electron extraction layer for high-performance planar heterojunction perovskite solar cells. <i>Nanoscale</i> , <b>2015</b> , 7, 17343-9	7.7	62
397	Mechanism that governs the electro-optic response of second-order nonlinear polymers on silicon substrates. <i>Optical Materials Express</i> , <b>2015</b> , 5, 1653	2.6	4
396	Corrections to A Silicon-Polymer Hybrid Modulator Design, Simulation, and Proof of Principle [Dec 13 4067-4072]. <i>Journal of Lightwave Technology</i> , <b>2015</b> , 33, 3358-3358	4	

395	Side chain structure affects the molecular packing and photovoltaic performance of oligothiophene-based solution-processable small molecules. <i>RSC Advances</i> , <b>2015</b> , 5, 67718-67726	3.7	18
394	Open-Circuit Voltage Losses in Selenium-Substituted Organic Photovoltaic Devices from Increased Density of Charge-Transfer States. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 6583-6591	9.6	37
393	Supramolecular Assembly of Complementary Cyanine Salt J-Aggregates. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 11920-3	16.4	38
392	Three-dimensional molecular donors combined with polymeric acceptors for high performance fullerene-free organic photovoltaic devices. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 22162-22169	13	28
391	Enhanced Light-Harvesting by Integrating Synergetic Microcavity and Plasmonic Effects for High-Performance ITO-Free Flexible Polymer Solar Cells. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 567-574	15.6	43
390	High-performance and environmentally stable planar heterojunction perovskite solar cells based on a solution-processed copper-doped nickel oxide hole-transporting layer. <i>Advanced Materials</i> , <b>2015</b> , 27, 695-701	24	655
389	Enhanced Environmental Stability of Planar Heterojunction Perovskite Solar Cells Based on Blade-Coating. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1401229	21.8	278
388	The roles of alkyl halide additives in enhancing perovskite solar cell performance. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 9058-9062	13	135
387	High-Performance Planar-Heterojunction Solar Cells Based on Ternary Halide Large-Band-Gap Perovskites. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1400960	21.8	108
386	Perovskites: Navigating Organo-Lead Halide Perovskite Phase Space via Nucleation Kinetics toward a Deeper Understanding of Perovskite Phase Transformations and Structure-Property Relationships (Small 26/2015). <i>Small</i> , <b>2015</b> , 11, 3087-3087	11	4
385	Influence of Molecular Geometry of Perylene Diimide Dimers and Polymers on Bulk Heterojunction Morphology Toward High-Performance Nonfullerene Polymer Solar Cells. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5326-5332	15.6	106
384	High-Performance Semitransparent Perovskite Solar Cells with 10% Power Conversion Efficiency and 25% Average Visible Transmittance Based on Transparent CuSCN as the Hole-Transporting Material. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500486	21.8	181
383	Enhanced Performance of Self-Assembled Monolayer Field-Effect Transistors with Top-Contact Geometry through Molecular Tailoring, Heated Assembly, and Thermal Annealing. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5376-5383	15.6	6
382	Enhanced Performance of Organic Solar Cells with Increased End Group Dipole Moment in Indacenodithieno[3,2-b]thiophene-Based Molecules. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 4889-4897	15.6	54
381	A Low-Temperature, Solution-Processable, Cu-Doped Nickel Oxide Hole-Transporting Layer via the Combustion Method for High-Performance Thin-Film Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2015</b> , 27, 7874-80	24	348
380	10.4% Power Conversion Efficiency of ITO-Free Organic Photovoltaics Through Enhanced Light Trapping Configuration. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500406	21.8	150
379	Poling efficiency enhancement of tethered binary nonlinear optical chromophores for achieving an ultrahigh $n_3/33$ figure-of-merit of 2601 pm/V. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 6737-6744	7.1	28
378	Enhanced crystalline morphology of a ladder-type polymer bulk-heterojunction device by blade-coating. <i>Nanoscale</i> , <b>2015</b> , 7, 10936-9	7.7	9

377	A Tetraperylene Diimides Based 3D Nonfullerene Acceptor for Efficient Organic Photovoltaics. <i>Advanced Science</i> , <b>2015</b> , 2, 1500014	13.6	73
376	Influence of Regio- and Chemoselectivity on the Properties of Fluoro-Substituted Thienothiophene and Benzodithiophene Copolymers. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 7616-9	16.4	73
375	C60 as an Efficient n-Type Compact Layer in Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 2399-405	6.4	271
374	Recent progress and perspective in solution-processed Interfacial materials for efficient and stable polymer and organometal perovskite solar cells. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1160-1189	35.4	637
373	Crystalline co-assemblies of functional fullerenes in methanol with enhanced charge transport. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 2167-70	16.4	23
372	Influence of self-assembled monolayer binding group on graphene transistors. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 021603	3.4	12
371	Highly Efficient Polymer Tandem Cells and Semitransparent Cells for Solar Energy. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301645	21.8	65
370	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> , <b>2014</b> , 24, 1465-1473	15.6	120
369	A General Route to Enhance Polymer Solar Cell Performance using Plasmonic Nanoprisms. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1400206	21.8	106
368	Additive enhanced crystallization of solution-processed perovskite for highly efficient planar-heterojunction solar cells. <i>Advanced Materials</i> , <b>2014</b> , 26, 3748-54	24	1242
367	High-Dielectric Constant Side-Chain Polymers Show Reduced Non-Geminate Recombination in Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301857	21.8	93
366	Metal Oxide Interlayers for Polymer Solar Cells <b>2014</b> , 319-342		0
365	Integrated Photonic Electromagnetic Field Sensor Based on Broadband Bowtie Antenna Coupled Silicon Organic Hybrid Modulator. <i>Journal of Lightwave Technology</i> , <b>2014</b> , 32, 3774-3784	4	85
364	Pyrene and diketopyrrolopyrrole-based oligomers synthesized via direct arylation for OSC applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 6765-75	9.5	65
363	Efficient all polymer solar cells from layer-evolved processing of a bilayer inverted structure. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 416-420	7.1	33
362	Role of self-assembled tetraoctylammonium bromide on various conjugated polymers in polymer light-emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 272-276	7.1	6
361	In situ doping and crosslinking of fullerenes to form efficient and robust electron-transporting layers for polymer solar cells. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 638-643	35.4	45
360	Tetrathienodibenzocarbazole Based Donor-Acceptor Type Wide Band-Gap Copolymers for Polymer Solar Cell Applications. <i>Macromolecules</i> , <b>2014</b> , 47, 7407-7415	5.5	17

359	Heterojunction modification for highly efficient organic-inorganic perovskite solar cells. <i>ACS Nano</i> , <b>2014</b> , 8, 12701-9	16.7	546
358	Significance of ions with an ordered arrangement for enhancing the electron injection/extraction in polymer optoelectronic devices. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 4805-4811	7.1	8
357	Low-temperature processed high-performance flexible perovskite solar cells via rationally optimized solvent washing treatments. <i>RSC Advances</i> , <b>2014</b> , 4, 62971-62977	3.7	160
356	Silica/Electro-Optic Polymer Optical Modulator With Integrated Antenna for Microwave Receiving. <i>Journal of Lightwave Technology</i> , <b>2014</b> , 32, 3861-3867	4	20
355	Modification of a Teng-Man technique to measure both $r_{33}$ and $r_{13}$ electro-optic coefficients. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 113302	3.4	3
354	Eleven-Membered Fused-Ring Low Band-Gap Polymer with Enhanced Charge Carrier Mobility and Photovoltaic Performance. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3631-3638	15.6	94
353	Role of chloride in the morphological evolution of organo-lead halide perovskite thin films. <i>ACS Nano</i> , <b>2014</b> , 8, 10640-54	16.7	328
352	Microcavity-enhanced light-trapping for highly efficient organic parallel tandem solar cells. <i>Advanced Materials</i> , <b>2014</b> , 26, 6778-84	24	81
351	Low operational voltage and high performance organic field effect memory transistor with solution processed graphene oxide charge storage media. <i>Organic Electronics</i> , <b>2014</b> , 15, 2775-2782	3.5	12
350	Binary-metal perovskites toward high-performance planar-heterojunction hybrid solar cells. <i>Advanced Materials</i> , <b>2014</b> , 26, 6454-60	24	259
349	Suppressed charge recombination in inverted organic photovoltaics via enhanced charge extraction by using a conductive fullerene electron transport layer. <i>Advanced Materials</i> , <b>2014</b> , 26, 6262-7	24	198
348	Performance limits of plasmon-enhanced organic photovoltaics. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 033304	3.4	16
347	Systematic Doping Control of CVD Graphene Transistors with Functionalized Aromatic Self-Assembled Monolayers. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3464-3470	15.6	36
346	Interfacial engineering of ultrathin metal film transparent electrode for flexible organic photovoltaic cells. <i>Advanced Materials</i> , <b>2014</b> , 26, 3618-23	24	159
345	Integrated molecular, interfacial, and device engineering towards high-performance non-fullerene based organic solar cells. <i>Advanced Materials</i> , <b>2014</b> , 26, 5708-14	24	366
344	Broadband Low-power Optical Modulator Based on Electro-optic Polymer Infiltrated Silicon Slot Photonic Crystal Waveguide <b>2014</b> ,		3
343	Spontaneously poling of electro-optic polymer thin films across a 1.1-mm thick glass substrate by pyroelectric crystals. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 183305	3.4	5
342	Mesoporous sol-gel silica cladding for hybrid TiO <sub>2</sub> /electro-optic polymer waveguide modulators. <i>Optics Express</i> , <b>2014</b> , 22, 16418-23	3.3	9

341	Enhanced third harmonic generation by organic materials on high-Q plasmonic photonic crystals. <i>Optics Express</i> , <b>2014</b> , 22, 20292-7	3.3	4
340	Enhanced conductivity of sol-gel silica cladding for efficient poling in electro-optic polymer/TiO <sub>2</sub> vertical slot waveguide modulators. <i>Optics Express</i> , <b>2014</b> , 22, 30191-9	3.3	11
339	Hybrid silicon-electro-optic-polymer integrated high-performance optical modulator <b>2014</b> ,		4
338	Strong photocurrent enhancements in highly efficient flexible organic solar cells by adopting a microcavity configuration. <i>Advanced Materials</i> , <b>2014</b> , 26, 3349-54	24	61
337	Electric Field Detection Using an Electro-optic Polymer Refilled Silicon Slot Photonic Crystal Waveguide <b>2014</b> ,		3
336	Wideband Electromagnetic Wave Sensing Using Electro-optic Polymer Infiltrated Silicon Slot Photonic Crystal Waveguide <b>2014</b> ,		1
335	Molecular Weight Effect on the Absorption, Charge Carrier Mobility, and Photovoltaic Performance of an Indacenodiselenophene-Based Ladder-Type Polymer. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 3188-3195	9.6	137
334	The role of spin in the kinetic control of recombination in organic photovoltaics. <i>Nature</i> , <b>2013</b> , 500, 435-439	30.4	379
333	Spontaneous thermal crosslinking of a sydnone-containing side-chain polymer with maleimides through a convergent [3 + 2] dual cycloaddition/cycloreversion process for electro-optics. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 5760	4.9	13
332	Side-Chain Effect on Cyclopentadithiophene/Fluorobenzothiadiazole-Based Low Band Gap Polymers and Their Applications for Polymer Solar Cells. <i>Macromolecules</i> , <b>2013</b> , 46, 5497-5503	5.5	89
331	Photo-induced denitrogenation of triazoline moieties for efficient photo-assisted poling of electro-optic polymers. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 4434	4.9	10
330	A Versatile Fluoro-Containing Low-Bandgap Polymer for Efficient Semitransparent and Tandem Polymer Solar Cells. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 5084-5090	15.6	98
329	Non-halogenated solvents for environmentally friendly processing of high-performance bulk-heterojunction polymer solar cells. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 3241	35.4	160
328	Flexible and twistable non-volatile memory cell array with all-organic one diode-one resistor architecture. <i>Nature Communications</i> , <b>2013</b> , 4, 2707	17.4	141
327	Highly Efficient Organic Electrooptic Materials and Their Hybrid Systems for Advanced Photonic Devices. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2013</b> , 19, 42-53	3.8	29
326	Configurable silicon photonic crystal waveguides. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 261112	3.4	2
325	The effect of thieno[3,2-b]thiophene on the absorption, charge mobility and photovoltaic performance of diketopyrrolopyrrole-based low bandgap conjugated polymers. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 7526	7.1	34
324	A Silicon-Polymer Hybrid Modulator Design, Simulation and Proof of Principle. <i>Journal of Lightwave Technology</i> , <b>2013</b> , 31, 4067-4072	4	29

323	Reducing cross-sensitivity of TiO <sub>2</sub> -(B) nanowires to humidity using ultraviolet illumination for trace explosive detection. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 5017-21	3.6	29
322	Effects of self-assembled monolayer structural order, surface homogeneity and surface energy on pentacene morphology and thin film transistor device performance. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 101-113	7.1	59
321	Optical and electrical effects of plasmonic nanoparticles in high-efficiency hybrid solar cells. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 17105-11	3.6	17
320	CBI activation: making diketopyrrolopyrrole derivatives easily accessible. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 2795	13	108
319	Enhanced performance of polymer solar cells using solution-processed tetra-n-alkyl ammonium bromides as electron extraction layers. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 2582	13	34
318	Toward High-Performance Semi-Transparent Polymer Solar Cells: Optimization of Ultra-Thin Light Absorbing Layer and Transparent Cathode Architecture. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 417-423	21.8	123
317	Enhancing the hole injection ability of indium tin oxide via ammonium salts in polymer light-emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 531-535	7.1	7
316	High-performance perovskite-polymer hybrid solar cells via electronic coupling with fullerene monolayers. <i>Nano Letters</i> , <b>2013</b> , 13, 3124-8	11.5	545
315	Morphology evolution by controlling solvent-solute interactions using a binary solvent in bulk heterojunction solar cells. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 233903	3.4	9
314	Doping of fullerenes via anion-induced electron transfer and its implication for surfactant facilitated high performance polymer solar cells. <i>Advanced Materials</i> , <b>2013</b> , 25, 4425-30	24	220
313	Indacenodithieno[3,2-b]thiophene-based broad bandgap polymers for high efficiency polymer solar cells. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 5220	4.9	42
312	Solution-processible highly conducting fullerenes. <i>Advanced Materials</i> , <b>2013</b> , 25, 2457-61	24	113
311	Solvent-dispersed benzothiadiazole-tetrathiafulvalene single-crystal nanowires and their application in field-effect transistors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 2320-4	9.5	22
310	High-Efficiency Polymer Solar Cells Achieved by Doping Plasmonic Metallic Nanoparticles into Dual Charge Selecting Interfacial Layers to Enhance Light Trapping. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 666-673	21.8	109
309	Rational Design of Advanced Thermoelectric Materials. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 549-565	21.8	225
308	Cascading Retro-Diels-Alder Cycloreversion and Sydnone-Maleimide Based Double 1,3-Dipolar Cycloaddition for Quantitative Thermal Cross-Linking of an Amorphous Polymer Solid.. <i>ACS Macro Letters</i> , <b>2013</b> , 2, 256-259	6.6	8
307	Wide optical spectrum range, subvolt, compact modulator based on an electro-optic polymer refilled silicon slot photonic crystal waveguide. <i>Optics Letters</i> , <b>2013</b> , 38, 4931-4	3	81
306	Demonstration of Effective In-device r <sub>33</sub> over 1000 pm/V in Electro-optic Polymer Refilled Silicon Slot Photonic Crystal Waveguide Modulator <b>2013</b> ,		3

305	Fully visible-light-harvesting conjugated polymers with pendant donor-acceptor chromophores for photovoltaic applications. <i>Solar Energy Materials and Solar Cells</i> , <b>2012</b> , 97, 50-58	6.4	16
304	Spin cast self-assembled monolayer field effect transistors. <i>Organic Electronics</i> , <b>2012</b> , 13, 464-468	3.5	28
303	Efficient poling of electro-optic polymers in thin films and silicon slot waveguides by detachable pyroelectric crystals. <i>Advanced Materials</i> , <b>2012</b> , 24, OP42-7	24	26
302	All-organic photopatterned one diode-one resistor cell array for advanced organic nonvolatile memory applications. <i>Advanced Materials</i> , <b>2012</b> , 24, 828-33	24	66
301	Enhanced Open-Circuit Voltage in High Performance Polymer/Fullerene Bulk-Heterojunction Solar Cells by Cathode Modification with a C60 Surfactant. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 82-86	21.8	180
300	Semi-transparent polymer solar cells with 6% PCE, 25% average visible transmittance and a color rendering index close to 100 for power generating window applications. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 9551	35.4	278
299	Polymer triplet energy levels need not limit photocurrent collection in organic solar cells. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 19661-8	16.4	56
298	Halogen-free solvent processing for sustainable development of high efficiency organic solar cells. <i>Organic Electronics</i> , <b>2012</b> , 13, 2870-2878	3.5	80
297	Enhanced temporal stability of a highly efficient guest-host electro-optic polymer through a barrier layer assisted poling process. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 20353		21
296	Evaluation of structure-property relationships of solution-processible fullerene acceptors and their n-channel field-effect transistor performance. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 14976		42
295	UV-Sensitive Self-Assembled Monolayer Photoresist for the Selective Deposition of Carbon Nanotubes. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 2017-2021	9.6	12
294	Dipolar Chromophore Facilitated Huisgen Cross-Linking Reactions for Highly Efficient and Thermally Stable Electrooptic Polymers. <i>ACS Macro Letters</i> , <b>2012</b> , 1, 793-796	6.6	21
293	Significant Improved Performance of Photovoltaic Cells Made from a Partially Fluorinated Cyclopentadithiophene/Benzothiadiazole Conjugated Polymer. <i>Macromolecules</i> , <b>2012</b> , 45, 5427-5435	5.5	173
292	Surface-enhanced Raman spectroscopy to probe photoreaction pathways and kinetics of isolated reactants on surfaces: flat versus curved substrates. <i>Nano Letters</i> , <b>2012</b> , 12, 5362-8	11.5	38
291	Multifunctional phosphonic acid self-assembled monolayers on metal oxides as dielectrics, interface modification layers and semiconductors for low-voltage high-performance organic field-effect transistors. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 14110-26	3.6	121
290	Effective interfacial layer to enhance efficiency of polymer solar cells via solution-processed fullerene-surfactants. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 8574		149
289	Optical design of transparent thin metal electrodes to enhance in-coupling and trapping of light in flexible polymer solar cells. <i>Advanced Materials</i> , <b>2012</b> , 24, 6362-7	24	115
288	Improved charge transport and absorption coefficient in indacenodithieno[3,2-b]thiophene-based ladder-type polymer leading to highly efficient polymer solar cells. <i>Advanced Materials</i> , <b>2012</b> , 24, 6356-61	14	319

287	Achieving excellent electro-optic activity and thermal stability in poled polymers through an expeditious crosslinking process. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 951-959		36
286	Solid-State Densification of Spun-Cast Self-Assembled Monolayers for Use in Ultra-Thin Hybrid Dielectrics. <i>Applied Surface Science</i> , <b>2012</b> , 261, 908-908	6.7	12
285	Bottom-contact small-molecule n-type organic field effect transistors achieved via simultaneous modification of electrode and dielectric surfaces. <i>Organic Electronics</i> , <b>2012</b> , 13, 3226-3233	3.5	16
284	Surface-initiated synthesis of poly(3-methylthiophene) from indium tin oxide and its electrochemical properties. <i>Langmuir</i> , <b>2012</b> , 28, 1900-8	4	56
283	Improved thin film morphology and bulk-heterojunction solar cell performance through systematic tuning of the surface energy of conjugated polymers. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 5587		68
282	Chemiresistive response of silicon nanowires to trace vapor of nitro explosives. <i>Nanoscale</i> , <b>2012</b> , 4, 2628-2632	7.32	23
281	Tunable light-harvesting polymers containing embedded dipolar chromophores for polymer solar cell applications. <i>Journal of Polymer Science Part A</i> , <b>2012</b> , 50, 1362-1373	2.5	17
280	Recent advances in solution-processed interfacial materials for efficient and stable polymer solar cells. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 5994	35.4	903
279	Functional fullerenes for organic photovoltaics. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 4161		417
278	High-Performance Inverted Polymer Solar Cells: Device Characterization, Optical Modeling, and Hole-Transporting Modifications. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 2804-2811	15.6	56
277	High-optical-quality blends of anionic polymethine salts and polycarbonate with enhanced third-order non-linearities for silicon-organic hybrid devices. <i>Advanced Materials</i> , <b>2012</b> , 24, OP326-30	24	21
276	Trimming of high-Q-factor silicon ring resonators by electron beam bleaching. <i>Optics Letters</i> , <b>2012</b> , 37, 3114-6	3	32
275	Towards a low-loss, ultra-low drive voltage silicon-polymer hybrid electro-optic modulator <b>2011</b> ,		1
274	Chemically Doped and Cross-linked Hole-Transporting Materials as an Efficient Anode Buffer Layer for Polymer Solar Cells. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 5006-5015	9.6	63
273	High-mobility low-bandgap conjugated copolymers based on indacenodithiophene and thiadiazolo[3,4-c]pyridine units for thin film transistor and photovoltaic applications. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 13247		94
272	n-Doping of thermally polymerizable fullerenes as an electron transporting layer for inverted polymer solar cells. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 6956		57
271	Conjugated polymers based on C, Si and N-bridged dithiophene and thienopyrroledione units: synthesis, field-effect transistors and bulk heterojunction polymer solar cells. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 3895		105
270	Indacenodithiophene and Quinoxaline-Based Conjugated Polymers for Highly Efficient Polymer Solar Cells. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 2289-2291	9.6	303

269	Increased open circuit voltage in fluorinated benzothiadiazole-based alternating conjugated polymers. <i>Chemical Communications</i> , <b>2011</b> , 47, 11026-8	5.8	225
268	Systematic Nanoengineering of Soft Matter Organic Electro-optic Materials <i>Chemistry of Materials</i> , <b>2011</b> , 23, 430-445	9.6	111
267	Synthesis, Characterization, Charge Transport, and Photovoltaic Properties of Dithienobenzoquinoxaline- and Dithienobenzopyridopyrazine-Based Conjugated Polymers. <i>Macromolecules</i> , <b>2011</b> , 44, 4752-4758	5.5	106
266	Broadband terahertz characterization of the refractive index and absorption of some important polymeric and organic electro-optic materials. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 043505-043505-5	2.5	269
265	Facile synthesis of a 56-Electron 1,2-dihydromethano-[60]PCBM and its application for thermally stable polymer solar cells. <i>Chemical Communications</i> , <b>2011</b> , 47, 10082-4	5.8	86
264	Sensitivity of titania(B) nanowires to nitroaromatic and nitroamino explosives at room temperature via surface hydroxyl groups. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 7269		38
263	. <i>Journal of Lightwave Technology</i> , <b>2011</b> , 29, 1112-1117	4	34
262	Electric-field sensors utilizing coupling between a D-fiber and an electro-optic polymer slab. <i>Applied Optics</i> , <b>2011</b> , 50, 3505-12	0.2	18
261	Silicon-polymer hybrid slot waveguide ring-resonator modulator. <i>Optics Express</i> , <b>2011</b> , 19, 3952-61	3.3	91
260	Effective in-device $r_{33}$ of 735 pm/V on electro-optic polymer infiltrated silicon photonic crystal slot waveguides. <i>Optics Letters</i> , <b>2011</b> , 36, 882-4	3	96
259	In-situ Crosslinking and n-Doping of Semiconducting Polymers and Their Application as Efficient Electron-Transporting Materials in Inverted Polymer Solar Cells. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 1148-1153	21.8	72
258	High speed electro-optic polymer phase modulator using an in-plane slotline RF waveguide <b>2011</b> ,		3
257	A Triptycene-Containing Chromophore for Improved Temporal Stability of Highly Efficient Guest-Host Electrooptic Polymers. <i>Macromolecules</i> , <b>2011</b> , 44, 1261-1265	5.5	20
256	Simultaneous Modification of Bottom-Contact Electrode and Dielectric Surfaces for Organic Thin-Film Transistors Through Single-Component Spin-Cast Monolayers. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 1476-1488	15.6	67
255	Spin-cast and patterned organophosphonate self-assembled monolayer dielectrics on metal-oxide-activated Si. <i>Advanced Materials</i> , <b>2011</b> , 23, 1899-902	24	58
254	Surface doping of conjugated polymers by graphene oxide and its application for organic electronic devices. <i>Advanced Materials</i> , <b>2011</b> , 23, 1903-8	24	190
253	The effect of dipole moment and electron deficiency of analytes on the chemiresistive response of TiO <sub>2</sub> (B) nanowires. <i>Analyst, The</i> , <b>2011</b> , 136, 4179-82	5	5
252	Surface characterization of polythiophene:fullerene blends on different electrodes using near edge X-ray absorption fine structure. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 726-32	9.5	37

251	Benzobis(silolothiophene)-Based Low Bandgap Polymers for Efficient Polymer Solar Cells□ <i>Chemistry of Materials</i> , <b>2011</b> , 23, 765-767	9.6	98
250	Highly efficient indacenodithiophene-based polymeric solar cells in conventional and inverted device configurations. <i>Organic Electronics</i> , <b>2011</b> , 12, 794-801	3.5	38
249	Optimization of organic NLO materials for integration with silicon photonic, plasmonic (metal optics), and metamaterial devices <b>2011</b> ,		2
248	Solvent-vapor annealing-induced growth, alignment, and patterning of E-conjugated supramolecular nanowires. <i>Journal of Materials Research</i> , <b>2011</b> , 26, 311-321	2.5	10
247	Creating favorable geometries for directing organic photoreactions in alkanethiolate monolayers. <i>Science</i> , <b>2011</b> , 331, 1312-5	33.3	79
246	Simplified Reflection Fabry-Perot Method for Determination of Electro-Optic Coefficients of Poled Polymer Thin Films. <i>Polymers</i> , <b>2011</b> , 3, 1310-1324	4.5	7
245	Solution processed inverted tandem polymer solar cells with self-assembled monolayer modified interfacial layers. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 253307	3.4	41
244	Solution-processed cross-linkable hole selective layer for polymer solar cells in the inverted structure. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 193310	3.4	30
243	Threshold voltage control in organic thin film transistors with dielectric layer modified by a genetically engineered polypeptide. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 013307	3.4	34
242	Molecular Design and Supramolecular Organization of Highly Efficient Nonlinear Optical Chromophores for Exceptional Electro-Optic Properties. <i>ACS Symposium Series</i> , <b>2010</b> , 51-66	0.4	2
241	2,1,3-Benzothiadiazole (BTD)-moiety-containing red emitter conjugated amphiphilic poly(ethylene glycol)-block-poly(epsilon-caprolactone) copolymers for bioimaging. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 1728-1736		28
240	Anode modification of inverted polymer solar cells using graphene oxide. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 203306	3.4	104
239	Highly efficient electro-optic polymers through improved poling using a thin TiO2-modified transparent electrode. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 243311	3.4	50
238	Organic Electro-Optic Materials. <i>ACS Symposium Series</i> , <b>2010</b> , 13-33	0.4	7
237	Effect of Chemical Modification of Fullerene-Based Self-Assembled Monolayers on the Performance of Inverted Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2010</b> , 2, 1892-1902	9.5	157
236	Synthesis, Characterization, and Photovoltaic Properties of Carbazole-Based Two-Dimensional Conjugated Polymers with Donor-Bridge-Acceptor Side Chains. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 6444-6452	9.6	90
235	Electro-optic polymer infiltrated silicon photonic crystal slot waveguide modulator with 23 dB slow light enhancement. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 093304	3.4	79
234	Surface plasmon enhanced fluorescence of cationic conjugated polymer on periodic nanoarrays. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2010</b> , 2, 3153-9	9.5	13

233	Metal grid/conducting polymer hybrid transparent electrode for inverted polymer solar cells. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 203301	3-4	254
232	Synthesis, Nanostructure, Functionality, and Application of Polyfluorene-block-poly(N-isopropylacrylamide)s. <i>Macromolecules</i> , <b>2010</b> , 43, 282-291	5-5	50
231	Mach-Zehnder interferometry method for decoupling electro-optic and piezoelectric effects in poled polymer films. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 041109	3-4	22
230	Dielectric surface-controlled low-voltage organic transistors via n-alkyl phosphonic acid self-assembled monolayers on high-k metal oxide. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2010</b> , 2, 511-205	3-5	93
229	Electro-optic modulator with exceptional power-size performance enabled by transparent conducting electrodes. <i>Optics Express</i> , <b>2010</b> , 18, 6779-96	3-3	12
228	40 GHz electro-optic modulation in hybrid silicon-organic slotted photonic crystal waveguides. <i>Optics Letters</i> , <b>2010</b> , 35, 2753-5	3	51
227	A Review on the Development of the Inverted Polymer Solar Cell Architecture. <i>Polymer Reviews</i> , <b>2010</b> , 50, 474-510	14	262
226	Graphene oxide nanosheets based organic field effect transistor for nonvolatile memory applications. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 023310	3-4	89
225	Rational Design Using Dewar's Rules for Enhancing the First Hyperpolarizability of Nonlinear Optical Chromophores. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 22284-22288	3-8	24
224	Efficient Polymer Solar Cells Based on the Copolymers of Benzodithiophene and Thienopyrroledione. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 2696-2698	9-6	334
223	Tuning the Kinetics and Energetics of Diels-Alder Cycloaddition Reactions to Improve Poling Efficiency and Thermal Stability of High-Temperature Cross-Linked Electro-Optic Polymers. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 5601-5608	9-6	43
222	Utilization of micelles formed from poly(ethylene glycol)-block-poly(epsilon-caprolactone) block copolymers as nanocarriers to enable hydrophobic red two-photon absorbing emitters for cells imaging. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2010</b> , 93, 1068-79	5-4	12
221	Hybrid silicon-organic racetrack resonator designs for electro-optical modulation <b>2010</b> ,		1
220	Tracking bacterial infection of macrophages using a novel red-emission pH sensor. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 398, 1375-84	4-4	22
219	Optimization of Active Layer and Anode Electrode for High-Performance Inverted Bulk-Heterojunction Solar Cells. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2010</b> , 16, 1665-1675	3-8	26
218	Using end groups to tune the linear and nonlinear optical properties of bis(dioxaborine)-terminated polymethine dyes. <i>ChemPhysChem</i> , <b>2010</b> , 11, 130-8	3-2	26
217	Enhancement of Aggregation-Induced Emission in Dye-Encapsulating Polymeric Micelles for Bioimaging. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 1413-1423	15-6	198
216	Interface Engineering for Organic Electronics. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 1371-1388	15-6	806

215	Cooperative Near-Field Surface Plasmon Enhanced Quantum Dot Nanoarrays. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 2675-2682	15.6	24
214	Effect of the phenyl ring orientation in the polystyrene buffer layer on the performance of pentacene thin-film transistors. <i>Organic Electronics</i> , <b>2010</b> , 11, 1066-1073	3.5	27
213	Dually Fluorescent Sensing of pH and Dissolved Oxygen Using a Membrane Made from Polymerizable Sensing Monomers. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 147, 714-722	8.5	40
212	Low-voltage high-performance organic thin film transistors with a thermally annealed polystyrene/hafnium oxide dielectric. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 243302	3.4	22
211	Modeling the optical behavior of complex organic media: from molecules to materials. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 15581-8	3.4	20
210	Electron-Rich Alcohol-Soluble Neutral Conjugated Polymers as Highly Efficient Electron-Injecting Materials for Polymer Light-Emitting Diodes. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 2457-2466	15.6	96
209	Supramolecular Self-Assembled Dendritic Nonlinear Optical Chromophores: Fine-Tuning of Arene-Perfluoroarene Interactions for Ultralarge Electro-Optic Activity and Enhanced Thermal Stability. <i>Advanced Materials</i> , <b>2009</b> , 21, 1976-1981	24	92
208	Highly Efficient Polymer White-Light-Emitting Diodes Based on Lithium Salts Doped Electron Transporting Layer. <i>Advanced Materials</i> , <b>2009</b> , 21, 361-365	24	150
207	Long-Lifetime Polymer Light-Emitting Electrochemical Cells Fabricated with Crosslinked Hole-Transport Layers. <i>Advanced Materials</i> , <b>2009</b> , 21, 1972-1975	24	65
206	The Effects of Binding Ligand Variation on the Nickel Catalyzed Externally Initiated Polymerization of 2-Bromo-3-hexyl-5-iodothiophene. <i>Macromolecular Chemistry and Physics</i> , <b>2009</b> , 210, 1966-1972	2.6	43
205	Directed self-immobilization of alkaline phosphatase on micro-patterned substrates via genetically fused metal-binding peptide. <i>Biotechnology and Bioengineering</i> , <b>2009</b> , 103, 696-705	4.9	80
204	Interface-tailored and nanoengineered polymeric materials for (opto)electronic devices. <i>Polymer International</i> , <b>2009</b> , 58, 594-619	3.3	25
203	Spraycoating of silver nanoparticle electrodes for inverted polymer solar cells. <i>Organic Electronics</i> , <b>2009</b> , 10, 719-723	3.5	90
202	Indium tin oxide-free semi-transparent inverted polymer solar cells using conducting polymer as both bottom and top electrodes. <i>Organic Electronics</i> , <b>2009</b> , 10, 1401-1407	3.5	239
201	Electro-optic (E-O) molecular glasses. <i>Chemistry - an Asian Journal</i> , <b>2009</b> , 4, 20-31	4.5	27
200	Single-cell patterning and adhesion on chemically engineered poly(dimethylsiloxane) surface. <i>Langmuir</i> , <b>2009</b> , 25, 4615-20	4	25
199	Charge carrier dynamics in metalated polymers investigated by optical-pump terahertz-probe spectroscopy. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 15427-32	3.4	21
198	Surface-plasmon-enhanced fluorescence from periodic quantum dot arrays through distance control using biomolecular linkers. <i>Nanotechnology</i> , <b>2009</b> , 20, 015305	3.4	36

197	Steric Stabilization Effects in Nickel-Catalyzed Regioregular Poly(3-hexylthiophene) Synthesis. <i>Macromolecules</i> , <b>2009</b> , 42, 9387-9389	5.5	63
196	Study on the formation of self-assembled monolayers on sol-gel processed hafnium oxide as dielectric layers. <i>Langmuir</i> , <b>2009</b> , 25, 2140-7	4	49
195	Photo-Stability Measurement of Electro-Optic Polymer Waveguides With High Intensity at 1550-nm Wavelength. <i>Journal of Lightwave Technology</i> , <b>2009</b> , 27, 1045-1050	4	10
194	Electro-optic modulation in slotted resonant photonic crystal heterostructures. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 241107	3.4	66
193	A Simple and Effective Way of Achieving Highly Efficient and Thermally Stable Bulk-Heterojunction Polymer Solar Cells Using Amorphous Fullerene Derivatives as Electron Acceptor. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 2598-2600	9.6	185
192	Effect of Initiators on the Kumada Catalyst-Transfer Polycondensation Reaction. <i>Macromolecules</i> , <b>2009</b> , 42, 7670-7677	5.5	84
191	Molecular mobility in self-assembled dendritic chromophore glasses. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 14180-8	3.4	12
190	Phosphonic acid organic monolayer/amorphous sol-gel hafnium oxide hybrid dielectric for low-voltage organic transistors on plastic. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 7929		29
189	Controlled Diels-Alder Reactions Used To Incorporate Highly Efficient Polyenic Chromophores into Maleimide-Containing Side-Chain Polymers for Electro-Optics. <i>Macromolecules</i> , <b>2009</b> , 42, 2438-2445	5.5	37
188	Development of new conjugated polymers with donor-pi-bridge-acceptor side chains for high performance solar cells. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 13886-7	16.4	310
187	Phosphonic acid self-assembled monolayer and amorphous hafnium oxide hybrid dielectric for high performance polymer thin film transistors on plastic substrates. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 113303	3.4	30
186	Rational molecular design and supramolecular assembly of highly efficient organic electro-optic materials. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 7410		122
185	Microring Resonators Made in Poled and Unpoled Chromophore-Containing Polymers for Optical Communication and Sensors. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2008</b> , 14, 1281-1288	3.8	9
184	Binary Chromophore Systems in Nonlinear Optical Dendrimers and Polymers for Large Electrooptic Activities. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 8091-8098	3.8	108
183	Controlled assembly of large pi-conjugated aromatic thiols on Au(111). <i>Nanotechnology</i> , <b>2008</b> , 19, 135605	3.4	12
182	Air-stable inverted flexible polymer solar cells using zinc oxide nanoparticles as an electron selective layer. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 253301	3.4	737
181	Thermally Cross-Linkable Hole-Transporting Materials for Improving Hole Injection in Multilayer Blue-Emitting Phosphorescent Polymer Light-Emitting Diodes. <i>Macromolecules</i> , <b>2008</b> , 41, 9570-9580	5.5	87
180	High performance ambient processed inverted polymer solar cells through interfacial modification with a fullerene self-assembled monolayer. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 233304	3.4	271

- 179 Electrooptic Polymer Modulator With Single-Mode to Multimode Waveguide Transitions. *IEEE Photonics Technology Letters*, **2008**, 20, 1051-1053 2.2 15
- 178 Crosslinkable hole-transporting materials for solution processed polymer light-emitting diodes. *Journal of Materials Chemistry*, **2008**, 18, 4495 147
- 177 Thermally Cross-Linkable Hole-Transporting Materials on Conducting Polymer: Synthesis, Characterization, and Applications for Polymer Light-Emitting Devices. *Chemistry of Materials*, **2008**, 20, 413-422 9.6 104
- 176 Reinforced Site Isolation Leading to Remarkable Thermal Stability and High Electrooptic Activities in Cross-Linked Nonlinear Optical Dendrimers. *Chemistry of Materials*, **2008**, 20, 6372-6377 9.6 66
- 175 Interfacial modification to improve inverted polymer solar cells. *Journal of Materials Chemistry*, **2008**, 18, 5113 323
- 174 High Performance Amorphous Metallated  $\pi$ -Conjugated Polymers for Field-Effect Transistors and Polymer Solar Cells. *Chemistry of Materials*, **2008**, 20, 5734-5736 9.6 175
- 173 Donor-Acceptor Thiolated Polyenic Chromophores Exhibiting Large Optical Nonlinearity and Excellent Photostability. *Chemistry of Materials*, **2008**, 20, 5047-5054 9.6 141
- 172 Directed assembly of single-walled carbon nanotubes via drop-casting onto a UV-patterned photosensitive monolayer. *Journal of the American Chemical Society*, **2008**, 130, 7226-7 16.4 55
- 171 Mesoscale dynamics and cooperativity of networking dendronized nonlinear optical molecular glasses. *Nano Letters*, **2008**, 8, 754-9 11.5 48
- 170 Site-Isolated Electro-optic Chromophores Based on Substituted 2,2'-Bis(3,4-propylenedioxythiophene)  $\pi$ -Conjugated Bridges. *Chemistry of Materials*, **2008**, 20, 3425-3434 9.6 90
- 169 Guest-Host Cooperativity in Organic Materials Greatly Enhances the Nonlinear Optical Response. *Journal of Physical Chemistry C*, **2008**, 112, 4355-4363 3.8 105
- 168 Modeling Photobleaching of Optical Chromophores: Light-Intensity Effects in Precise Trimming of Integrated Polymer Devices. *Journal of Physical Chemistry C*, **2008**, 112, 8051-8060 3.8 22
- 167 High-efficiency and solution processible multilayer white polymer light-emitting diodes using neutral conjugated surfactant as an electron injection layer. *Applied Physics Letters*, **2008**, 92, 063303 3.4 33
- 166 Stability and flexibility of self-assembled monolayers of thiols consisting of a horizontal large  $\pi$ -system and a vertical spacer. *Journal of Physics Condensed Matter*, **2008**, 20, 315012 1.8 2
- 165 Low-voltage organic thin-film transistors with  $\pi$ -phosphonic acid molecular dielectric monolayers. *Applied Physics Letters*, **2008**, 92, 113303 3.4 73
- 164 Wideband 15THz response using organic electro-optic polymer emitter-sensor pairs at telecommunication wavelengths. *Applied Physics Letters*, **2008**, 92, 151107 3.4 91
- 163 Self-assembled monolayer modified ZnO/metal bilayer cathodes for polymer/fullerene bulk-heterojunction solar cells. *Applied Physics Letters*, **2008**, 92, 193313 3.4 153
- 162 Lithium salt doped conjugated polymers as electron transporting materials for highly efficient blue polymer light-emitting diodes. *Applied Physics Letters*, **2008**, 93, 243302 3.4 30

161	Low-voltage high-performance C60 thin film transistors via low-surface-energy phosphonic acid monolayer/hafnium oxide hybrid dielectric. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 083302	3.4	25
160	Colloidal CdSe quantum dot electroluminescence: ligands and light-emitting diodes. <i>Mikrochimica Acta</i> , <b>2008</b> , 160, 345-350	5.8	31
159	Order of Magnitude Effects of Thiazole Regioisomerism on the Near-IR Two-Photon Cross-Sections of Dipolar Chromophores. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 794-801	15.6	8
158	Self-assembled Electroactive Phosphonic Acids on ITO: Maximizing Hole-Injection in Polymer Light-Emitting Diodes. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 3964-3971	15.6	85
157	Highly Efficient White Polymer Light-Emitting Diodes Based on Nanometer-Scale Control of the Electron Injection Layer Morphology through Solvent Processing. <i>Advanced Materials</i> , <b>2008</b> , 20, 1565-1570	15.6	95
156	Polymer Solar Cells That Use Self-Assembled-Monolayer- Modified ZnO/Metals as Cathodes. <i>Advanced Materials</i> , <b>2008</b> , 20, 2376-2382	24	446
155	Phosphonic Acid Organic Monolayer/Sol-Gel Hafnium Oxide Hybrid Dielectrics for Low-Voltage Organic Transistors. <i>Advanced Materials</i> , <b>2008</b> , 20, 3697-3701	24	129
154	2-(2'-Hydroxyphenyl)benzoxazole-Containing Two-Photon-Absorbing Chromophores as Sensors for Zinc and Hydroxide Ions. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 1977-1987	9.6	90
153	Peptide-mediated surface-immobilized quantum dot hybrid nanoassemblies with controlled photoluminescence. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 866-872		25
152	Ultralarge and thermally stable electro-optic activities from supramolecular self-assembled molecular glasses. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 488-9	16.4	266
151	Direct surface functionalization of indium tin oxide via electrochemically induced assembly. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 3489		22
150	Phenyltetraene-based nonlinear optical chromophores with enhanced chemical stability and electrooptic activity. <i>Organic Letters</i> , <b>2007</b> , 9, 4471-4	6.2	78
149	Nanostructured Functional Block Copolymers for Electrooptic Devices. <i>Macromolecules</i> , <b>2007</b> , 40, 97-104	5.5	28
148	Two-photon absorbing block copolymer as a nanocarrier for porphyrin: energy transfer and singlet oxygen generation in micellar aqueous solution. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 7220-1	16.4	71
147	Theory-guided design and synthesis of multichromophore dendrimers: an analysis of the electro-optic effect. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 7523-30	16.4	132
146	Experimental Demonstration of a Linearized Polymeric Directional Coupler Modulator. <i>IEEE Photonics Technology Letters</i> , <b>2007</b> , 19, 1762-1764	2.2	9
145	Large Electro-optic Activity and Enhanced Thermal Stability from Diarylaminophenyl-Containing High- $\pi$ -Conjugated Nonlinear Optical Chromophores. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 1154-1163	9.6	147
144	A Novel Benzoxazole-Containing Poly(N-isopropylacrylamide) Copolymer as a Multifunctional Sensing Material. <i>Macromolecular Rapid Communications</i> , <b>2007</b> , 28, 894-899	4.8	40

143	Electrooptic Polymer Ring Resonator Modulation up to 165 GHz. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2007</b> , 13, 104-110	3.8	66
142	Two-Photon Absorption in Quadrupolar Bis(acceptor)-Terminated Chromophores with Electron-Rich Bis(heterocycle)vinylene Bridges. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 432-442	9.6	62
141	Theoretical and experimental studies on the surface structures of conjugated rod-coil block copolymer brushes. <i>Langmuir</i> , <b>2007</b> , 23, 2805-14	4	37
140	Controlled assembly of large $\pi$ -conjugated n-type molecules on Au(111). <i>Nanotechnology</i> , <b>2007</b> , 18, 3353024	3.4	8
139	All-Dielectric Electrooptic Sensor Based on a Polymer Microresonator Coupled Side-Polished Optical Fiber. <i>IEEE Sensors Journal</i> , <b>2007</b> , 7, 515-524	4	27
138	Efficient acceptor groups for NLO chromophores: competing inductive and resonance contributions in heterocyclic acceptors derived from 2-dicyanomethylidene-3-cyano-4,5,5-trimethyl-2,5-dihydrofuran. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 3344-3348		35
137	Highly Efficient UV-Violet Light-Emitting Polymers Derived from Fluorene and Tetraphenylsilane Derivatives: Molecular Design toward Enhanced Electroluminescent Performance. <i>Macromolecules</i> , <b>2007</b> , 40, 3015-3020	5.5	42
136	Efficient photocurrent generation through a self-assembled monolayer of C60-mercaptophenylanthrylacetylene. <i>Journal of Power Sources</i> , <b>2006</b> , 160, 711-715	8.9	9
135	Thermally crosslinked hole-transporting layers for cascade hole-injection and effective electron-blocking/exciton-confinement in phosphorescent polymer light-emitting diodes. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 093505	3.4	70
134	Low drive voltage Fabry-Pérot Balon device tunable filters using poled hybrid sol-gel materials. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 041127	3.4	20
133	Third-order nonlinearity contribution to electro-optic activity in polymer materials in a constant bias field. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 041115	3.4	3
132	Time resolved photoluminescence spectroscopy of surface-plasmon-enhanced light emission from conjugate polymers. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 221106	3.4	30
131	Hybrid Fabry-Pérot Balon using an electro-optic polymer for optical modulation. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 141113	3.4	13
130	Diels-Alder Click Chemistry for Highly Efficient Electrooptic Polymers. <i>Macromolecules</i> , <b>2006</b> , 39, 1676-1689	3.9	116
129	Facile synthesis of highly efficient phenyltetraene-based nonlinear optical chromophores for electrooptics. <i>Organic Letters</i> , <b>2006</b> , 8, 1387-90	6.2	80
128	Low-voltage electro-optic polymer modulators <b>2006</b> ,		2
127	Bonding and Molecular Environment Effects on Near-Infrared Optical Absorption Behavior in Nonlinear Optical Monoazo Chromophore Polymer Materials. <i>Macromolecules</i> , <b>2006</b> , 39, 7566-7577	5.5	18
126	Efficient ultraviolet-blue polymer light-emitting diodes based on a fluorene-based non-conjugated polymer. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 081104	3.4	25

125	Two-dimensional self-assembly of 1-pyrylphosphonic acid: transfer of stacks on structured surface. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 5672-9	16.4	28
124	Self-assembled monolayers of aromatic thiols stabilized by parallel-displaced pi-pi stacking interactions. <i>Langmuir</i> , <b>2006</b> , 22, 3049-56	4	62
123	Arrays of covalently bonded single gold nanoparticles on thiolated molecular assemblies. <i>Langmuir</i> , <b>2006</b> , 22, 6346-51	4	11
122	High-efficiency polymer light-emitting diodes using neutral surfactant modified aluminum cathode. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 6010-4	3.4	23
121	Linear and nonlinear optical properties of a macrocyclic trichromophore bundle with parallel-aligned dipole moments. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 5434-8	3.4	37
120	Patterning of robust self-assembled n-type hexaazatrinaphthylene-based nanorods and nanowires by microcontact printing. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 13042-3	16.4	53
119	Efficient CdSe/CdS quantum dot light-emitting diodes using a thermally polymerized hole transport layer. <i>Nano Letters</i> , <b>2006</b> , 6, 463-7	11.5	448
118	P-187: Crosslinkable Hole-Transporting Polymers for High Efficiency Blue and White Phosphorescent Light-Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , <b>2006</b> , 37, 931	0.5	
117	New environmentally responsive fluorescent N-isopropylacrylamide copolymer and its application to DNA sensing. <i>Journal of Polymer Science Part A</i> , <b>2006</b> , 44, 5495-5504	2.5	43
116	A highly electroluminescent molecular square. <i>Chemical Communications</i> , <b>2005</b> , 1002-4	5.8	43
115	Thiol-Linked Anthraquinone Anthryl Acetylene Molecule: Synthesis, Self-assembly, and Photoelectrochemical Properties. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 2896-2903	9.6	14
114	Highly efficient red-electrophosphorescent devices based on polyfluorene copolymers containing charge-transporting pendant units. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 14000-5	3.4	46
113	Highly Efficient Electrophosphorescent Devices with Saturated Red Emission from a Neutral Osmium Complex. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 3532-3536	9.6	87
112	Electro-optic properties of hybrid solgel doped with a nonlinear chromophore with large hyperpolarizability. <i>Optics Letters</i> , <b>2005</b> , 30, 117-9	3	11
111	High-efficiency light-emitting diodes using neutral surfactants and aluminum cathode. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 083504	3.4	74
110	Very large electro-optic coefficients from in situ generated side-chain nonlinear optical polymers. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 071109	3.4	20
109	Systematic study of the structure-property relationship of a series of ferrocenyl nonlinear optical chromophores. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 2758-66	16.4	155
108	Assembly of gold nanoparticles using genetically engineered polypeptides. <i>Small</i> , <b>2005</b> , 1, 698-702	11	35

107	Low temperature relaxations and effects on poling efficiencies of dendronized nonlinear optical side-chain polymers. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 211908	3.4	12
106	Wavelength dependence of first molecular hyperpolarizability of a dendrimer in solution. <i>Journal of Chemical Physics</i> , <b>2004</b> , 121, 6086-92	3.9	18
105	Resonance enhanced THz generation in electro-optic polymers near the absorption maximum. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 5827-5829	3.4	72
104	Efficient and stable blue light-emitting diodes based on an anthracene derivative doped poly(N-vinylcarbazole). <i>Applied Physics Letters</i> , <b>2004</b> , 85, 5433-5435	3.4	22
103	Highly efficient red electrophosphorescent devices based on an iridium complex with trifluoromethyl-substituted pyrimidine ligand. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 1619-1621	3.4	44
102	Bright white light electroluminescent devices based on a dye-dispersed polyfluorene derivative. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 1116-1118	3.4	81
101	Platinum-Functionalized Chiral Molecular Squares as Light-Emitting Materials. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 846, DD3.6.1		
100	A Side-Chain Dendronized Nonlinear Optical Polyimide with Large and Thermally Stable Electrooptic Activity. <i>Macromolecules</i> , <b>2004</b> , 37, 248-250	5.5	97
99	Ordered self-assembly and electronic behavior of C60-anthrylphenylacetylene hybrid. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 1512-6	16.4	25
98	Ordered Self-Assembly and Electronic Behavior of C60-Anthrylphenylacetylene Hybrid. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 1538-1542	3.6	2
97	Replica-molded electro-optic polymer Mach-Zehnder modulator. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 1662-1664	3.4	55
96	Efficient green polymer light-emitting diodes with microcavity effect in electroluminescence spectrum but constant quantum efficiency. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 3553-3555	2.5	5
95	Nanoscale Architectural Control and Macromolecular Engineering of Nonlinear Optical Dendrimers and Polymers for Electro-Optics. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 8523-8530	3.4	146
94	Trends in Optical Nonlinearity and Thermal Stability in Electrooptic Chromophores Based upon the 3-(Dicyanomethylene)-2,3-dihydrobenzothiophene-1, 1-dioxide Acceptor. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 8626-8630	3.4	48
93	A Novel Lattice-Hardening Process To Achieve Highly Efficient and Thermally Stable Nonlinear Optical Polymers. <i>Macromolecules</i> , <b>2004</b> , 37, 688-690	5.5	69
92	Synthesis and Optoelectronic Properties of Starlike Polyfluorenes with a Silsesquioxane Core. <i>Macromolecules</i> , <b>2004</b> , 37, 2335-2341	5.5	172
91	Highly Efficient Photocurrent Generation from a Self-Assembled Monolayer Film of a Novel C60-Tethered 2,5-Dithienylpyrrole Triad. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 5058-5062	9.6	37
90	Perfluorocyclobutane-Based Polyester(arylene ether)s for Applications in Integrated Optics. <i>Macromolecules</i> , <b>2004</b> , 37, 5578-5585	5.5	30

89	Novel Divalent Osmium Complexes: Synthesis, Characterization, Tuning of Emission, and use in Organic Light Emitting Diodes. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 771, 10341		2
88	Absorption and Luminescence Properties of Sequentially Random- and Defined Copolymers Based on Poly(fluorene-benzothiadiazole). <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 771, 10311		
87	Focused Microwave-assisted Synthesis of 2,5-Dihydrofuran Derivatives as Electron Acceptors for Highly Efficient Nonlinear Optical Chromophores. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 771, 10481		
86	Nanostructured functional dendrimers and polymers for photonics. <i>Comptes Rendus Chimie</i> , <b>2003</b> , 6, 895-902	2.7	7
85	Novel fluorine-containing second-order NLO polymers with high glass transition temperature. <i>Optical Materials</i> , <b>2003</b> , 21, 61-65	3.3	7
84	Molecular biomimetics: nanotechnology through biology. <i>Nature Materials</i> , <b>2003</b> , 2, 577-85	27	1353
83	Efficient Green-Light-Emitting Diodes from Silole-Containing Copolymers. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 3496-3500	9.6	121
82	Controlled Assembly of Conducting Monomers for Molecular Electronics. <i>Nano Letters</i> , <b>2003</b> , 3, 139-142	11.5	42
81	Highly Efficient Blue-Light-Emitting Diodes from Polyfluorene Containing Bipolar Pendant Groups. <i>Macromolecules</i> , <b>2003</b> , 36, 6698-6703	5.5	243
80	Novel Oxadiazole-Containing Polyfluorene with Efficient Blue Electroluminescence. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 269-274	9.6	170
79	Highly Fluorinated Trifluorovinyl Aryl Ether Monomers and Perfluorocyclobutane Aromatic Ether Polymers for Optical Waveguide Applications. <i>Macromolecules</i> , <b>2003</b> , 36, 8001-8007	5.5	67
78	A Hyperbranched Aromatic Fluoropolyester for Photonic Applications. <i>Macromolecules</i> , <b>2003</b> , 36, 4355-4359	4.5	61
77	Bright red-emitting electrophosphorescent device using osmium complex as a triplet emitter. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 776-778	3.4	84
76	Hyper-Rayleigh scattering and frequency dependence of the first molecular hyperpolarizability of a strong charge-transfer chromophore. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 6237-6244	3.9	13
75	Efficient emission from a europium complex containing dendron-substituted diketone ligands. <i>Thin Solid Films</i> , <b>2002</b> , 416, 212-217	2.2	22
74	Red electrophosphorescence from osmium complexes. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 713-715	3.4	65
73	Bright and efficient exciplex emission from light-emitting diodes based on hole-transporting amine derivatives and electron-transporting polyfluorenes. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 10147	2.5	25
72	Synthesis and Characterization of Novel Conjugated Light-Emitting Polymers. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 725, 1		

71	Highly Efficient Fluorene- and Benzothiadiazole-Based Conjugated Copolymers for Polymer Light-Emitting Diodes. <i>Macromolecules</i> , <b>2002</b> , 35, 6094-6100	5.5	214
70	Divalent osmium complexes: synthesis, characterization, strong red phosphorescence, and electrophosphorescence. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 14162-72	16.4	200
69	Large electro-optic activity and low optical loss derived from a highly fluorinated dendritic nonlinear optical chromophore. <i>Chemical Communications</i> , <b>2002</b> , 888-9	5.8	96
68	Effect of Cyano Substituents on Electron Affinity and Electron-Transporting Properties of Conjugated Polymers. <i>Macromolecules</i> , <b>2002</b> , 35, 3532-3538	5.5	132
67	Dispersion of the first molecular hyperpolarizability of charge-transfer chromophores studied by hyper-Rayleigh scattering. <i>Chemical Physics</i> , <b>2001</b> , 271, 137-143	2.3	27
66	Synthesis and characterization of processible electroluminescent poly[(2,7-diethynyl-9,9-di-2-ethylhexylfluorene)- alt - co -(2,5-thienylene)]. <i>Synthetic Metals</i> , <b>2001</b> , 124, 323-327	3.6	6
65	The effect of ligand conjugation length on europium complex performance in light-emitting diodes. <i>Synthetic Metals</i> , <b>2001</b> , 125, 331-336	3.6	30
64	Efficient Cyano-Containing Electron-Transporting Polymers for Light-Emitting Diodes. <i>Chemistry of Materials</i> , <b>2001</b> , 13, 3820-3822	9.6	44
63	Highly efficient and thermally stable nonlinear optical dendrimer for electrooptics. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 986-7	16.4	207
62	Measurements of the first hyperpolarizabilities of thiophene-based charge-transfer chromophores with hyper-Rayleigh scattering at 1064 and 1907 nm. <i>Chemical Physics</i> , <b>2000</b> , 262, 475-487	2.3	19
61	Organic light-emitting diodes using an in situ thermally polymerized hole transporting layer. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 2985-2987	3.4	38
60	High-performance blue light-emitting diode based on a binaphthyl-containing polyfluorene. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 1813-1815	3.4	76
59	A Binaphthyl-Based Conjugated Polymer for Light-Emitting Diodes. <i>Chemistry of Materials</i> , <b>2000</b> , 12, 13-15	9.6	69
58	A Novel Class of High-Performance Perfluorocyclobutane-Containing Polymers for Second-Order Nonlinear Optics. <i>Chemistry of Materials</i> , <b>2000</b> , 12, 1187-1189	9.6	48
57	Triarylamine-Containing Poly(perfluorocyclobutane) as Hole-Transporting Material for Polymer Light-Emitting Diodes. <i>Macromolecules</i> , <b>2000</b> , 33, 3514-3517	5.5	128
56	Efficient light-emitting diodes based on a binaphthalene-containing polymer. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 3745-3747	3.4	41
55	Synthesis and Characterization of Highly Efficient, Chemically and Thermally Stable Chromophores with Chromone-Containing Electron Acceptors for NLO Applications. <i>Advanced Materials</i> , <b>1999</b> , 11, 452-455	2.4	66
54	Synthesis and Characterization of Nonlinear Optical Chromophores with Conformationally Locked Polyenes Possessing Enhanced Thermal Stability. <i>Chemistry of Materials</i> , <b>1999</b> , 11, 1628-1632	9.6	40

53	Highly efficient, thermally and chemically stable nonlinear optical chromophores based on the perfluoroaryldicyanovinyl electron acceptors. <i>Chemical Communications</i> , <b>1999</b> , 2391-2392	5.8	22
52	Synthesis, Properties, and Application of New Luminescent Polymers with Both Hole and Electron Injection Abilities for Light-Emitting Devices. <i>Chemistry of Materials</i> , <b>1999</b> , 11, 1568-1575	9.6	79
51	A Convenient Modular Approach of Functionalizing Aromatic Polyquinolines for Electrooptic Devices. <i>Chemistry of Materials</i> , <b>1999</b> , 11, 2218-2225	9.6	44
50	Synthesis and Characterization of a Bipolar Light-Emitting Copolymer Consisting of Tetraphenyldiaminobiphenyl and Bis-Quinoline Units. <i>Chemistry of Materials</i> , <b>1999</b> , 11, 27-29	9.6	53
49	Highly Efficient, Thermally and Chemically Stable Second Order Nonlinear Optical Chromophores Containing a 2-Phenyl-tetracyanobutadienyl Acceptor. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 472-473	16.4	98
48	Polyquinolines: Multifunctional Polymers for Electro-Optic and Light-Emitting Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 558, 469		
47	Design and Synthesis of Highly Efficient Nonlinear Optical Chromophores. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 598, 60		
46	Poly(Binaphthalenevinylene-alt-Phenylenevinylene) Derivatives: Novel Luminescent Polymers for Light-Emitting Devices. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 598, 125		
45	High Performance Side-Chain Polyquinolines and Perfluorocyclobutane-Containing Thermoset Polymers for Electro-Optic Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 598, 399		1
44	High-Performance Polyquinolines with Pendent High-Temperature Chromophores for Second-Order Nonlinear Optics. <i>Chemistry of Materials</i> , <b>1998</b> , 10, 471-473	9.6	49
43	Versatile Synthetic Approach to Nonlinear Optical Side-Chain Aromatic Polyquinolines with Large Second-Order Nonlinearity and Thermal Stability. <i>Macromolecules</i> , <b>1998</b> , 31, 4049-4052	5.5	29
42	Synthesis and Characterization of a Novel Light-Emitting Polymer Containing Highly Efficient Hole-Transporting Aromatic Diamine. <i>Chemistry of Materials</i> , <b>1998</b> , 10, 3301-3304	9.6	74
41	Recent Progress of Electro-optic Polymers for Device Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 488, 193		1
40	Charge transfer interactions in polymers and the fabrication of high frequency electro-optic modulators. <i>Macromolecular Symposia</i> , <b>1997</b> , 116, 135-142	0.8	1
39	Design and synthesis of chromophores and polymers for electro-optic and photorefractive applications. <i>Nature</i> , <b>1997</b> , 388, 845-851	50.4	896
38	Synthesis and characterization of highly efficient and thermally stable diphenylamino-substituted thiophene stilbene chromophores for nonlinear optical applications. <i>Advanced Materials</i> , <b>1997</b> , 9, 132-135	24	119
37	The Important Role of Heteroaromatics in the Design of Efficient Second-Order Nonlinear Optical Molecules: Theoretical Investigation on PushPull Heteroaromatic Stilbenes. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 12443-12448	16.4	255
36	Two-Step Synthesis of Side-Chain Aromatic Polyimides for Second-Order Nonlinear Optics. <i>Macromolecules</i> , <b>1996</b> , 29, 535-539	5.5	126

35	Poling Dynamics and Effects of Trapped Charge in Poled Polymer Films for Nonlinear Optical Applications. <i>Macromolecules</i> , <b>1996</b> , 29, 7064-7074	5.5	12
34	A Novel Class of Nonlinear Optical Side-Chain Polymer: Polyquinolines with Large Second-Order Nonlinearity and Thermal Stability. <i>Chemistry of Materials</i> , <b>1996</b> , 8, 607-609	9.6	45
33	Synthesis of second-order nonlinear optical chromophores with enhanced thermal stability and nonlinearity: a conformation-locked trans-polyene approach. <i>Chemical Communications</i> , <b>1996</b> , 2279	5.8	48
32	Achieving excellent tradeoffs among optical, chemical and thermal properties in second-order nonlinear optical chromophores. <i>Chemical Communications</i> , <b>1996</b> , 1237	5.8	28
31	A new synthetic approach for nonlinear optical chromophores possessing enhanced thermal stability. <i>Tetrahedron Letters</i> , <b>1996</b> , 37, 7055-7058	2	46
30	Facile Approach to Nonlinear Optical Side-Chain Aromatic Polyimides with Large Second-Order Nonlinearity and Thermal Stability. <i>Journal of the American Chemical Society</i> , <b>1995</b> , 117, 7295-7296	16.4	126
29	Highly Active and Thermally Stable Chromophores and Polymers for Electro-Optic Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>1995</b> , 392, 33		6
28	New Developments in Thermally and Chemically Stable Nonlinear Optical Chromophores for E-O Device Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>1995</b> , 413, 185		2
27	Experimental studies of the length dependence of second-order nonlinear optical responses of conjugated molecules. <i>Physical Review A</i> , <b>1994</b> , 49, 3077-3080	2.6	16
26	Rhodanine-methine as an electron acceptor in second-order nonlinear optical chromophores. <i>Tetrahedron Letters</i> , <b>1994</b> , 35, 3849-3852	2	18
25	Large and Stable Nonlinear Optical Effects Observed for a Polyimide Covalently Incorporating a Nonlinear Optical Chromophore. <i>Chemistry of Materials</i> , <b>1994</b> , 6, 104-106	9.6	86
24	Synthesis of Diarylthiobarbituric acid Chromophores with Enhanced Second-order Optical Nonlinearities and Thermal Stability. <i>Chemistry of Materials</i> , <b>1994</b> , 6, 1603-1604	9.6	75
23	A new synthetic approach for the incorporation of highly efficient second-order nonlinear optical chromophores containing tricyanovinyl electron acceptors into methacrylate polymers. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1994</b> , 369		19
22	Ketene dithioacetal as an electron donor in second-order nonlinear optical chromophores. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1994</b> , 1689-1690		71
21	Thermally stable nonlinear optical polyimides: synthesis and electro-optic properties. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1994</b> , 965		29
20	Design and synthesis of thermally stable side-chain polyimides for second-order nonlinear optical applications. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1994</b> , 2711		29
19	Functionalized Fused Thiophenes: A New Class of Thermally Stable and Efficient Second-Order Nonlinear Optical Chromophores. <i>Chemistry of Materials</i> , <b>1994</b> , 6, 2210-2212	9.6	45
18	Dramatically enhanced second-order nonlinear optical susceptibilities in tricyanovinylthiophene derivatives. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1993</b> , 1118		122

17	Functionalized thiophenes: second-order nonlinear optical materials. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1993</b> , 90		153
16	Thermally Stable Poled Polymers: Highly Efficient Heteroaromatic Chromophores in High Temperature Polyimides. <i>Materials Research Society Symposia Proceedings</i> , <b>1993</b> , 328, 413		6
15	Second-Order Nonlinear Optical Properties Of Thiophene Containing Chromophores with Extended Conjugation. <i>Materials Research Society Symposia Proceedings</i> , <b>1993</b> , 328, 485		4
14	Novel push-pull thiophenes for second order nonlinear optical applications. <i>Tetrahedron Letters</i> , <b>1993</b> , 34, 1747-1750	2	140
13	Heteroaromatics: Exceptional Materials for Second Order Nonlinear Optical Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 247, 59		7
12	Micro Resonators on Side-Polished Fiber - A Potential Fiber Optic Sensor Platform		1
11	Homogeneous Grain Boundary Passivation in Wide-Bandgap Perovskite Films Enables Fabrication of Monolithic Perovskite/Organic Tandem Solar Cells with over 21% Efficiency. <i>Advanced Functional Materials</i> , 2112126	15.6	8
10	Near-Infrared Absorbing Nonfullerene Acceptors for Organic Solar Cells. <i>Solar Rrl</i> , 2100868	7.1	1
9	Tailoring Phase Purity in the 2D/3D Perovskite Heterostructures Using Lattice Mismatch. <i>ACS Energy Letters</i> , 550-559	20.1	6
8	Interfacial Engineering of Wide-Bandgap Perovskites for Efficient Perovskite/CZTSSe Tandem Solar Cells. <i>Advanced Functional Materials</i> , 2107359	15.6	10
7	Multifunctional Molecular Design of a New Fulleropyrrolidine Electron Transport Material Family Engenders High Performance of Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2107695	15.6	4
6	Formation of Vitrified Solid Solution Enables Simultaneously Efficient and Stable Organic Solar Cells. <i>ACS Energy Letters</i> , 3522-3529	20.1	9
5	Development and Challenges of Metal Halide Perovskite Solar Modules. <i>Solar Rrl</i> , 2100545	7.1	10
4	A radically different path to high-performance Sn perovskite solar cells. <i>Science China Chemistry</i> , 1	7.9	
3	Selenium: A Unique Member in the Chalcogen Family for Conjugated Materials Employed in Perovskite and Organic Solar Cells. <i>Solar Rrl</i> ,	7.1	4
2	Plasmonic Local Heating Induced Strain Modulation for Enhanced Efficiency and Stability of Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2200186	21.8	1
1	Non-Fullerene Acceptor Doped Block Copolymer for Efficient and Stable Organic Solar Cells. <i>ACS Energy Letters</i> , 2196-2202	20.1	5