

Alex Jen

List of Publications by Citations

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

768
papers

59,847
citations

125
h-index

210
g-index

819
ext. papers

65,996
ext. citations

11
avg, IF

8.09
L-index

#	Paper	IF	Citations
768	Non-fullerene acceptors for organic solar cells. <i>Nature Reviews Materials</i> , 2018 , 3,	73.3	1634
767	Molecular biomimetics: nanotechnology through biology. <i>Nature Materials</i> , 2003 , 2, 577-85	27	1353
766	Additive enhanced crystallization of solution-processed perovskite for highly efficient planar-heterojunction solar cells. <i>Advanced Materials</i> , 2014 , 26, 3748-54	24	1242
765	Polymer-Based Optical Waveguides: Materials, Processing, and Devices. <i>Advanced Materials</i> , 2002 , 14, 1339-1365	24	1018
764	Recent advances in solution-processed interfacial materials for efficient and stable polymer solar cells. <i>Energy and Environmental Science</i> , 2012 , 5, 5994	35.4	903
763	Design and synthesis of chromophores and polymers for electro-optic and photorefractive applications. <i>Nature</i> , 1997 , 388, 845-851	50.4	896
762	Interface Engineering for Organic Electronics. <i>Advanced Functional Materials</i> , 2010 , 20, 1371-1388	15.6	806
761	Air-stable inverted flexible polymer solar cells using zinc oxide nanoparticles as an electron selective layer. <i>Applied Physics Letters</i> , 2008 , 92, 253301	3.4	737
760	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> , 2015 , 27, 695-701	24	655
759	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> , 2015 , 8, 1160-1189	35.4	637
758	Heterojunction modification for highly efficient organic-inorganic perovskite solar cells. <i>ACS Nano</i> , 2014 , 8, 12701-9	16.7	546
757	High-performance perovskite-polymer hybrid solar cells via electronic coupling with fullerene monolayers. <i>Nano Letters</i> , 2013 , 13, 3124-8	11.5	545
756	Efficient CdSe/CdS quantum dot light-emitting diodes using a thermally polymerized hole transport layer. <i>Nano Letters</i> , 2006 , 6, 463-7	11.5	448
755	Polymer Solar Cells That Use Self-Assembled-Monolayer- Modified ZnO/Metals as Cathodes. <i>Advanced Materials</i> , 2008 , 20, 2376-2382	24	446
754	Functional fullerenes for organic photovoltaics. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4161		417
753	Synthesis and Processing of Improved Organic Second-Order Nonlinear Optical Materials for Applications in Photonics. <i>Chemistry of Materials</i> , 1995 , 7, 1060-1081	9.6	416
752	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> , 2015 , 27, 3310-7	24	400

751	Dopant-Free Hole-Transporting Material with a C _{3h} Symmetrical Truxene Core for Highly Efficient Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2528-31	16.4	395
750	Pinhole-Free and Surface-Nanostructured NiO _x Film by Room-Temperature Solution Process for High-Performance Flexible Perovskite Solar Cells with Good Stability and Reproducibility. <i>ACS Nano</i> , 2016 , 10, 1503-11	16.7	390
749	Enhanced Efficiency and Stability of Inverted Perovskite Solar Cells Using Highly Crystalline SnO ₂ Nanocrystals as the Robust Electron-Transporting Layer. <i>Advanced Materials</i> , 2016 , 28, 6478-84	24	382
748	The role of spin in the kinetic control of recombination in organic photovoltaics. <i>Nature</i> , 2013 , 500, 435-9	30.4	379
747	Integrated molecular, interfacial, and device engineering towards high-performance non-fullerene based organic solar cells. <i>Advanced Materials</i> , 2014 , 26, 5708-14	24	366
746	From molecules to opto-chips: organic electro-optic materials. <i>Journal of Materials Chemistry</i> , 1999 , 9, 1905-1920		362
745	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> , 2015 , 27, 7874-80	24	348
744	Efficient Polymer Solar Cells Based on the Copolymers of Benzodithiophene and Thienopyrroledione. <i>Chemistry of Materials</i> , 2010 , 22, 2696-2698	9.6	334
743	Role of chloride in the morphological evolution of organo-lead halide perovskite thin films. <i>ACS Nano</i> , 2014 , 8, 10640-54	16.7	328
742	Interfacial modification to improve inverted polymer solar cells. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5113		323
741	Dithienopicenocarbazole-Based Acceptors for Efficient Organic Solar Cells with Optoelectronic Response Over 1000 nm and an Extremely Low Energy Loss. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2054-2057	16.4	322
740	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> , 2012 , 24, 6356-61	14	319
739	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> , 2009 , 131, 13886-7	16.4	310
738	Indacenodithiophene and Quinoxaline-Based Conjugated Polymers for Highly Efficient Polymer Solar Cells. <i>Chemistry of Materials</i> , 2011 , 23, 2289-2291	9.6	303
737	Enhanced Environmental Stability of Planar Heterojunction Perovskite Solar Cells Based on Blade-Coating. <i>Advanced Energy Materials</i> , 2015 , 5, 1401229	21.8	278
736	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> , 2012 , 5, 9551	35.4	278
735	C60 as an Efficient n-Type Compact Layer in Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2399-405	6.4	271
734	High performance ambient processed inverted polymer solar cells through interfacial modification with a fullerene self-assembled monolayer. <i>Applied Physics Letters</i> , 2008 , 93, 233304	3.4	271

733	Broadband terahertz characterization of the refractive index and absorption of some important polymeric and organic electro-optic materials. <i>Journal of Applied Physics</i> , 2011 , 109, 043505-043505-5	2.5	269
732	Hybrid polymer/sol-gel waveguide modulators with exceptionally large electro-optic coefficients. <i>Nature Photonics</i> , 2007 , 1, 180-185	33.9	267
731	Ultralarge and thermally stable electro-optic activities from supramolecular self-assembled molecular glasses. <i>Journal of the American Chemical Society</i> , 2007 , 129, 488-9	16.4	266
730	A Review on the Development of the Inverted Polymer Solar Cell Architecture. <i>Polymer Reviews</i> , 2010 , 50, 474-510	14	262
729	Binary-metal perovskites toward high-performance planar-heterojunction hybrid solar cells. <i>Advanced Materials</i> , 2014 , 26, 6454-60	24	259
728	High-Performance Fully Printable Perovskite Solar Cells via Blade-Coating Technique under the Ambient Condition. <i>Advanced Energy Materials</i> , 2015 , 5, 1500328	21.8	257
727	Roles of Fullerene-Based Interlayers in Enhancing the Performance of Organometal Perovskite Thin-Film Solar Cells. <i>Advanced Energy Materials</i> , 2015 , 5, 1402321	21.8	255
726	The Important Role of Heteroaromatics in the Design of Efficient Second-Order Nonlinear Optical Molecules: Theoretical Investigation on Push-Pull Heteroaromatic Stilbenes. <i>Journal of the American Chemical Society</i> , 1996 , 118, 12443-12448	16.4	255
725	Stable Low-Bandgap Pb-Sn Binary Perovskites for Tandem Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 8990-8997	21.8	254
724	Metal grid/conducting polymer hybrid transparent electrode for inverted polymer solar cells. <i>Applied Physics Letters</i> , 2010 , 96, 203301	3.4	254
723	Toward Perovskite Solar Cell Commercialization: A Perspective and Research Roadmap Based on Interfacial Engineering. <i>Advanced Materials</i> , 2018 , 30, e1800455	24	244
722	Highly Efficient Blue-Light-Emitting Diodes from Polyfluorene Containing Bipolar Pendant Groups. <i>Macromolecules</i> , 2003 , 36, 6698-6703	5.5	243
721	Highly Efficient Organic Solar Cells with Improved Vertical Donor-Acceptor Compositional Gradient Via an Inverted Off-Center Spinning Method. <i>Advanced Materials</i> , 2016 , 28, 967-74	24	240
720	Indium tin oxide-free semi-transparent inverted polymer solar cells using conducting polymer as both bottom and top electrodes. <i>Organic Electronics</i> , 2009 , 10, 1401-1407	3.5	239
719	Mixed Cation FAPbI ₃ /PbI ₃ with Enhanced Phase and Ambient Stability toward High-Performance Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1601307	21.8	237
718	Defect Passivation of Organic-Inorganic Hybrid Perovskites by Diammonium Iodide toward High-Performance Photovoltaic Devices. <i>ACS Energy Letters</i> , 2016 , 1, 757-763	20.1	237
717	Over 12% Efficiency Nonfullerene All-Small-Molecule Organic Solar Cells with Sequentially Evolved Multilength Scale Morphologies. <i>Advanced Materials</i> , 2019 , 31, e1807842	24	228
716	Rational Design of Advanced Thermoelectric Materials. <i>Advanced Energy Materials</i> , 2013 , 3, 549-565	21.8	225

715	Increased open circuit voltage in fluorinated benzothiadiazole-based alternating conjugated polymers. <i>Chemical Communications</i> , 2011 , 47, 11026-8	5.8	225
714	Terahertz all-optical modulation in a silicon-polymer hybrid system. <i>Nature Materials</i> , 2006 , 5, 703-9	27	225
713	The molecular and supramolecular engineering of polymeric electro-optic materials. <i>Chemical Physics</i> , 1999 , 245, 35-50	2.3	225
712	CuGaO : A Promising Inorganic Hole-Transporting Material for Highly Efficient and Stable Perovskite Solar Cells. <i>Advanced Materials</i> , 2017 , 29, 1604984	24	222
711	Rigidifying Nonplanar Perylene Diimides by Ring Fusion Toward Geometry-Tunable Acceptors for High-Performance Fullerene-Free Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 951-8	24	222
710	Doping of fullerenes via anion-induced electron transfer and its implication for surfactant facilitated high performance polymer solar cells. <i>Advanced Materials</i> , 2013 , 25, 4425-30	24	220
709	Optical modulation and detection in slotted Silicon waveguides. <i>Optics Express</i> , 2005 , 13, 5216-26	3.3	219
708	Highly Efficient Fluorene- and Benzothiadiazole-Based Conjugated Copolymers for Polymer Light-Emitting Diodes. <i>Macromolecules</i> , 2002 , 35, 6094-6100	5.5	214
707	Highly Efficient Perovskite-Perovskite Tandem Solar Cells Reaching 80% of the Theoretical Limit in Photovoltage. <i>Advanced Materials</i> , 2017 , 29, 1702140	24	210
706	Highly efficient and thermally stable nonlinear optical dendrimer for electrooptics. <i>Journal of the American Chemical Society</i> , 2001 , 123, 986-7	16.4	207
705	Highly Efficient and Thermally Stable Electro-Optical Dendrimers for Photonics. <i>Advanced Functional Materials</i> , 2002 , 12, 565-574	15.6	200
704	Divalent osmium complexes: synthesis, characterization, strong red phosphorescence, and electrophosphorescence. <i>Journal of the American Chemical Society</i> , 2002 , 124, 14162-72	16.4	200
703	Highly efficient all-inorganic perovskite solar cells with suppressed non-radiative recombination by a Lewis base. <i>Nature Communications</i> , 2020 , 11, 177	17.4	200
702	Suppressed charge recombination in inverted organic photovoltaics via enhanced charge extraction by using a conductive fullerene electron transport layer. <i>Advanced Materials</i> , 2014 , 26, 6262-7	24	198
701	Enhancement of Aggregation-Induced Emission in Dye-Encapsulating Polymeric Micelles for Bioimaging. <i>Advanced Functional Materials</i> , 2010 , 20, 1413-1423	15.6	198
700	Electrophosphorescence from a Conjugated Copolymer Doped with an Iridium Complex: High Brightness and Improved Operational Stability. <i>Advanced Materials</i> , 2003 , 15, 45-49	24	191
699	Surface doping of conjugated polymers by graphene oxide and its application for organic electronic devices. <i>Advanced Materials</i> , 2011 , 23, 1903-8	24	190
698	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> , 2009 , 21, 2598-2600	9.6	185

697	Regulating Surface Termination for Efficient Inverted Perovskite Solar Cells with Greater Than 23% Efficiency. <i>Journal of the American Chemical Society</i> , 2020 , 142, 20134-20142	16.4	185
696	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> , 2015 , 5, 1500486	21.8	181
695	Two-Dimensional Perovskite Solar Cells with 14.1% Power Conversion Efficiency and 0.68% External Radiative Efficiency. <i>ACS Energy Letters</i> , 2018 , 3, 2086-2093	20.1	180
694	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> , 2012 , 2, 82-86	21.8	180
693	Tailor-Making Low-Cost Spiro[fluorene-9,9'-xanthene]-Based 3D Oligomers for Perovskite Solar Cells. <i>Chem</i> , 2017 , 2, 676-687	16.2	176
692	High Performance Amorphous Metallated π -Conjugated Polymers for Field-Effect Transistors and Polymer Solar Cells. <i>Chemistry of Materials</i> , 2008 , 20, 5734-5736	9.6	175
691	Significant Improved Performance of Photovoltaic Cells Made from a Partially Fluorinated Cyclopentadithiophene/Benzothiadiazole Conjugated Polymer. <i>Macromolecules</i> , 2012 , 45, 5427-5435	5.5	173
690	Synthesis and Optoelectronic Properties of Starlike Polyfluorenes with a Silsesquioxane Core. <i>Macromolecules</i> , 2004 , 37, 2335-2341	5.5	172
689	Novel Oxadiazole-Containing Polyfluorene with Efficient Blue Electroluminescence. <i>Chemistry of Materials</i> , 2003 , 15, 269-274	9.6	170
688	Current Challenges and Prospective Research for Upscaling Hybrid Perovskite Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 811-9	6.4	165
687	Low-temperature processed high-performance flexible perovskite solar cells via rationally optimized solvent washing treatments. <i>RSC Advances</i> , 2014 , 4, 62971-62977	3.7	160
686	Non-halogenated solvents for environmentally friendly processing of high-performance bulk-heterojunction polymer solar cells. <i>Energy and Environmental Science</i> , 2013 , 6, 3241	35.4	160
685	Molecular Engineered Hole-Extraction Materials to Enable Dopant-Free, Efficient p-i-n Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1700012	21.8	159
684	Interfacial engineering of ultrathin metal film transparent electrode for flexible organic photovoltaic cells. <i>Advanced Materials</i> , 2014 , 26, 3618-23	24	159
683	Highly Efficient Organic Solar Cells Based on S,N-Heteroacene Non-Fullerene Acceptors. <i>Chemistry of Materials</i> , 2018 , 30, 5429-5434	9.6	158
682	Crosslinkable Hole-Transport Layer on Conducting Polymer for High-Efficiency White Polymer Light-Emitting Diodes. <i>Advanced Materials</i> , 2007 , 19, 300-304	24	158
681	CsPbBr ₃ Perovskite Quantum Dot Vertical Cavity Lasers with Low Threshold and High Stability. <i>ACS Photonics</i> , 2017 , 4, 2281-2289	6.3	157
680	Effect of Chemical Modification of Fullerene-Based Self-Assembled Monolayers on the Performance of Inverted Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1892-1902 ^{9.5}	9.5	157

679	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> , 2017 , 29, 8369-8376	9.6	156
678	Stabilized Wide Bandgap Perovskite Solar Cells by Tin Substitution. <i>Nano Letters</i> , 2016 , 16, 7739-7747	11.5	155
677	Systematic study of the structure-property relationship of a series of ferrocenyl nonlinear optical chromophores. <i>Journal of the American Chemical Society</i> , 2005 , 127, 2758-66	16.4	155
676	Inorganic CsPb _{1-x} Sn _x IBr ₂ for Efficient Wide-Bandgap Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1800525	21.8	154
675	Self-assembled monolayer modified ZnO/metal bilayer cathodes for polymer/fullerene bulk-heterojunction solar cells. <i>Applied Physics Letters</i> , 2008 , 92, 193313	3.4	153
674	Functionalized thiophenes: second-order nonlinear optical materials. <i>Journal of the Chemical Society Chemical Communications</i> , 1993 , 90		153
673	Effects of formamidinium and bromide ion substitution in methylammonium lead triiodide toward high-performance perovskite solar cells. <i>Nano Energy</i> , 2016 , 22, 328-337	17.1	152
672	Realizing Efficient Lead-Free Formamidinium Tin Triiodide Perovskite Solar Cells via a Sequential Deposition Route. <i>Advanced Materials</i> , 2018 , 30, 1703800	24	151
671	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> , 2016 , 138, 11833-9	16.4	150
670	10.4% Power Conversion Efficiency of ITO-Free Organic Photovoltaics Through Enhanced Light Trapping Configuration. <i>Advanced Energy Materials</i> , 2015 , 5, 1500406	21.8	150
669	Highly Efficient Polymer White-Light-Emitting Diodes Based on Lithium Salts Doped Electron Transporting Layer. <i>Advanced Materials</i> , 2009 , 21, 361-365	24	150
668	Nonlinear polymer-clad silicon slot waveguide modulator with a half wave voltage of 0.25V. <i>Applied Physics Letters</i> , 2008 , 92, 163303	3.4	150
667	Effective interfacial layer to enhance efficiency of polymer solar cells via solution-processed fullerene-surfactants. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8574		149
666	Highly Efficient Porphyrin-Based OPV/Perovskite Hybrid Solar Cells with Extended Photoresponse and High Fill Factor. <i>Advanced Materials</i> , 2017 , 29, 1703980	24	148
665	Crosslinkable hole-transporting materials for solution processed polymer light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2008 , 18, 4495		147
664	Large Electro-optic Activity and Enhanced Thermal Stability from Diarylamino-phenyl-Containing High- χ Nonlinear Optical Chromophores. <i>Chemistry of Materials</i> , 2007 , 19, 1154-1163	9.6	147
663	Nanoscale Architectural Control and Macromolecular Engineering of Nonlinear Optical Dendrimers and Polymers for Electro-Optics. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 8523-8530	3.4	146
662	Toward All Room-Temperature, Solution-Processed, High-Performance Planar Perovskite Solar Cells: A New Scheme of Pyridine-Promoted Perovskite Formation. <i>Advanced Materials</i> , 2017 , 29, 1604695	24	142

661	Flexible and twistable non-volatile memory cell array with all-organic one diode-one resistor architecture. <i>Nature Communications</i> , 2013 , 4, 2707	17.4	141
660	Donor-Acceptor Thiolated Polyenic Chromophores Exhibiting Large Optical Nonlinearity and Excellent Photostability. <i>Chemistry of Materials</i> , 2008 , 20, 5047-5054	9.6	141
659	Novel push-pull thiophenes for second order nonlinear optical applications. <i>Tetrahedron Letters</i> , 1993 , 34, 1747-1750	2	140
658	A Non-fullerene Acceptor with Enhanced Intermolecular π -Core Interaction for High-Performance Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15246-15251	16.4	138
657	Molecular Weight Effect on the Absorption, Charge Carrier Mobility, and Photovoltaic Performance of an Indacenodiselenophene-Based Ladder-Type Polymer. <i>Chemistry of Materials</i> , 2013 , 25, 3188-3195	9.6	137
656	Adding a Third Component with Reduced Miscibility and Higher LUMO Level Enables Efficient Ternary Organic Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 2711-2720	20.1	137
655	The roles of alkyl halide additives in enhancing perovskite solar cell performance. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9058-9062	13	135
654	Current-Induced Phase Segregation in Mixed Halide Hybrid Perovskites and its Impact on Two-Terminal Tandem Solar Cell Design. <i>ACS Energy Letters</i> , 2017 , 2, 1841-1847	20.1	135
653	Modulation of PEDOT:PSS pH for Efficient Inverted Perovskite Solar Cells with Reduced Potential Loss and Enhanced Stability. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32068-32076	9.5	132
652	Theory-guided design and synthesis of multichromophore dendrimers: an analysis of the electro-optic effect. <i>Journal of the American Chemical Society</i> , 2007 , 129, 7523-30	16.4	132
651	Effect of Cyano Substituents on Electron Affinity and Electron-Transporting Properties of Conjugated Polymers. <i>Macromolecules</i> , 2002 , 35, 3532-3538	5.5	132
650	A Conjugated, Neutral Surfactant as Electron-Injection Material for High-Efficiency Polymer Light-Emitting Diodes. <i>Advanced Materials</i> , 2007 , 19, 2010-2014	24	130
649	π -Phosphonic Acid Organic Monolayer/Sol-Gel Hafnium Oxide Hybrid Dielectrics for Low-Voltage Organic Transistors. <i>Advanced Materials</i> , 2008 , 20, 3697-3701	24	129
648	Triarylamine-Containing Poly(perfluorocyclobutane) as Hole-Transporting Material for Polymer Light-Emitting Diodes. <i>Macromolecules</i> , 2000 , 33, 3514-3517	5.5	128
647	Ag-Incorporated Organic-Inorganic Perovskite Films and Planar Heterojunction Solar Cells. <i>Nano Letters</i> , 2017 , 17, 3231-3237	11.5	127
646	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> , 1995 , 117, 7295-7296	16.4	126
645	Two-Step Synthesis of Side-Chain Aromatic Polyimides for Second-Order Nonlinear Optics. <i>Macromolecules</i> , 1996 , 29, 535-539	5.5	126
644	Focused Microwave-Assisted Synthesis of 2,5-Dihydrofuran Derivatives as Electron Acceptors for Highly Efficient Nonlinear Optical Chromophores. <i>Advanced Materials</i> , 2003 , 15, 603-607	24	124

643	pH-dependent, thermosensitive polymeric nanocarriers for drug delivery to solid tumors. <i>Biomaterials</i> , 2013 , 34, 4501-9	15.6	123
642	Toward High-Performance Semi-Transparent Polymer Solar Cells: Optimization of Ultra-Thin Light Absorbing Layer and Transparent Cathode Architecture. <i>Advanced Energy Materials</i> , 2013 , 3, 417-423	21.8	123
641	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> , 2018 , 11, 3392-3399	35.4	122
640	Rational molecular design and supramolecular assembly of highly efficient organic electro-optic materials. <i>Journal of Materials Chemistry</i> , 2009 , 19, 7410		122
639	Dramatically enhanced second-order nonlinear optical susceptibilities in tricyanovinylthiophene derivatives. <i>Journal of the Chemical Society Chemical Communications</i> , 1993 , 1118		122
638	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> , 2012 , 14, 14110-26	3.6	121
637	Efficient Green-Light-Emitting Diodes from Silole-Containing Copolymers. <i>Chemistry of Materials</i> , 2003 , 15, 3496-3500	9.6	121
636	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> , 2017 , 34, 392-398	17.1	120
635	Highly Efficient Inverted Organic Solar Cells Through Material and Interfacial Engineering of Indacenodithieno[3,2-b]thiophene-Based Polymers and Devices. <i>Advanced Functional Materials</i> , 2014 , 24, 1465-1473	15.6	120
634	SrCl Derived Perovskite Facilitating a High Efficiency of 16% in Hole-Conductor-Free Fully Printable Mesoscopic Perovskite Solar Cells. <i>Advanced Materials</i> , 2017 , 29, 1606608	24	119
633	Synthesis and characterization of highly efficient and thermally stable diphenylamino-substituted thiophene stilbene chromophores for nonlinear optical applications. <i>Advanced Materials</i> , 1997 , 9, 132-135	24	119
632	2D metal-organic framework for stable perovskite solar cells with minimized lead leakage. <i>Nature Nanotechnology</i> , 2020 , 15, 934-940	28.7	119
631	Design, Synthesis, and Properties of Highly Efficient Side-Chain Dendronized Nonlinear Optical Polymers for Electro-Optics. <i>Advanced Materials</i> , 2002 , 14, 1763-1768	24	117
630	Effects of Self-Assembled Monolayer Modification of Nickel Oxide Nanoparticles Layer on the Performance and Application of Inverted Perovskite Solar Cells. <i>ChemSusChem</i> , 2017 , 10, 3794-3803	8.3	116
629	Diels-Alder Click Chemistry For Highly Efficient Electrooptic Polymers. <i>Macromolecules</i> , 2006 , 39, 1676-1680	3.9	116
628	Improved efficiency and stability of Pb/Sn binary perovskite solar cells by Cs substitution. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17939-17945	13	115
627	Optical design of transparent thin metal electrodes to enhance in-coupling and trapping of light in flexible polymer solar cells. <i>Advanced Materials</i> , 2012 , 24, 6362-7	24	115
626	Improved Performance from Multilayer Quantum Dot Light-Emitting Diodes via Thermal Annealing of the Quantum Dot Layer. <i>Advanced Materials</i> , 2007 , 19, 3371-3376	24	115

625	Solution-processible highly conducting fullerenes. <i>Advanced Materials</i> , 2013 , 25, 2457-61	24	113
624	A copper-doped nickel oxide bilayer for enhancing efficiency and stability of hysteresis-free inverted mesoporous perovskite solar cells. <i>Nano Energy</i> , 2017 , 40, 155-162	17.1	112
623	High Efficiency (15.8%) All-Polymer Solar Cells Enabled by a Regioregular Narrow Bandgap Polymer Acceptor. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2665-2670	16.4	112
622	Systematic Nanoengineering of Soft Matter Organic Electro-optic Materials <i>Chemistry of Materials</i> , 2011 , 23, 430-445	9.6	111
621	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> , 2013 , 3, 666-673	21.8	109
620	High-Performance Planar-Heterojunction Solar Cells Based on Ternary Halide Large-Band-Gap Perovskites. <i>Advanced Energy Materials</i> , 2015 , 5, 1400960	21.8	108
619	C ₆₀ activation: making diketopyrrolopyrrole derivatives easily accessible. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 2795	13	108
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579	Silicon-polymer hybrid slot waveguide ring-resonator modulator. <i>Optics Express</i> , 2011 , 19, 3952-61	3.3	91
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