

# Jingdong Luo

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2389746/publications.pdf>

Version: 2024-02-01

286  
papers

17,447  
citations

17440

63  
h-index

14208

128  
g-index

292  
all docs

292  
docs citations

292  
times ranked

13516  
citing authors

#	ARTICLE	IF	CITATIONS
1	Record-high near-band-edge optical nonlinearities and two-level model correction of poled polymers by spectroscopic electromodulation and ellipsometry. <i>Science China Chemistry</i> , 2022, 65, 584-593.	8.2	3
2	Efficient, Stable, and Scalable Push-Pull Heptamethines for Electro-Optics. <i>Chemistry of Materials</i> , 2022, 34, 3683-3693.	6.7	13
3	Intramolecular Chloro-Sulfur Interaction and Asymmetric Side-Chain Isomerization to Balance Crystallinity and Miscibility in All-Small-Molecule Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	29
4	Intramolecular Chloro-Sulfur Interaction and Asymmetric Side-Chain Isomerization to Balance Crystallinity and Miscibility in All-Small-Molecule Solar Cells. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	3
5	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> , 2021, 11, 2003177.	19.5	114
6	Systematic study of the structure-property relationship of a series of near-infrared absorbing push-pull heptamethine chromophores for electro-optics. <i>Science China Chemistry</i> , 2021, 64, 263-273.	8.2	13
7	Optimizing the vectorial component of first hyperpolarizabilities of push-pull chromophores to boost the electro-optic activities of poled polymers over broad telecom wavelength bands. <i>Materials Advances</i> , 2021, 2, 2318-2327.	5.4	6
8	A Diradicaloid Small Molecular Nanotheranostic with Strong Near-Infrared Absorbance for Effective Cancer Photoacoustic Imaging and Photothermal Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 15983-15991.	8.0	37
9	Critical Role of Non-classical Intermolecular Hydrogen Bonding in Affecting the $\pi$ - $\pi$ Stacking and Nonlinear Optical Properties of Tricyanofuran-Based Push-Pull Heptamethines. <i>Chemistry of Materials</i> , 2021, 33, 3702-3711.	6.7	19
10	A reversible microarray immobilization strategy based on thiol-quinone reaction. <i>Chinese Chemical Letters</i> , 2021, 33, 213-213.	9.0	1
11	Asymmetric Isomer Effects in Benzo[ <i>c</i> ][1,2,5]thiadiazole-Fused Noncyclic Acceptors: Dielectric Constant and Molecular Crystallinity Control for Significant Photovoltaic Performance Enhancement. <i>Advanced Functional Materials</i> , 2021, 31, 2104369.	14.9	46
12	Photochemical Synthesis of Nonplanar Small Molecules with Ultrafast Nonradiative Decay for Highly Efficient Phototheranostics. <i>Advanced Materials</i> , 2021, 33, e2102799.	21.0	15
13	Ultrastretchable conductive liquid metal composites enabled by adaptive interfacial polarization. <i>Materials Horizons</i> , 2021, 8, 3399-3408.	12.2	17
14	High-performance organic second- and third-order nonlinear optical materials for ultrafast information processing. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15009-15026.	5.5	117
15	A Generally Applicable Approach Using Sequential Deposition to Enable Highly Efficient Organic Solar Cells. <i>Small Methods</i> , 2020, 4, 2000687.	8.6	86
16	Development of a molecular K <sup>+</sup> probe for colorimetric/fluorescent/photoacoustic detection of K <sup>+</sup> . <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 6947-6957.	3.7	19
17	Photo-bleaching of optical waveguide polymers with dipolar chromophores to improve their sensitivity for explosive vapor detection. <i>Journal of Materials Chemistry C</i> , 2020, 8, 13010-13018.	5.5	6
18	The synthesis of second-order nonlinear optical chromophores with conjugated steric hindrance for electro-optics at 850 nm. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5494-5500.	5.5	13

#	ARTICLE	IF	CITATIONS
19	Synthesis of a side-chain hole transporting polymer through Mitsunobu post-functionalization for efficient inverted perovskite solar cells. <i>Polymer Chemistry</i> , 2020, 11, 2883-2888.	3.9	5
20	A silicon-organic hybrid platform for quantum microwave-to-optical transduction. <i>Quantum Science and Technology</i> , 2020, 5, 034004.	5.8	24
21	Graphene electrodes for electric poling of electro-optic polymer films. <i>Optics Letters</i> , 2020, 45, 2383.	3.3	10
22	Analysis and Demonstration of Ultra-Broadband Mach-Zehnder Hybrid Polymer/Sol-Gel Waveguide Modulators. , 2020, , .		0
23	Optofluidic laser explosive sensor with ultralow detection limit and large dynamic range using donor-acceptor-donor organic dye. <i>Sensors and Actuators B: Chemical</i> , 2019, 298, 126830.	7.8	14
24	Bioinspired Controllable Electro-Optic Chemomechanical Coloration Films. <i>Advanced Functional Materials</i> , 2019, 29, 1806383.	14.9	34
25	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> , 2018, 6, 2840-2847.	5.5	26
26	Silicon-Organic Hybrid (SOH) Mach-Zehnder Modulators for 100 Gbit/s on-off Keying. <i>Scientific Reports</i> , 2018, 8, 2598.	3.3	81
27	Ultra-efficient and stable electro-optic dendrimers containing supramolecular homodimers of semifluorinated dipolar aromatics. <i>Materials Chemistry Frontiers</i> , 2018, 2, 901-909.	5.9	49
28	Bandwidth Optimization for Mach-Zehnder Polymer/Sol-Gel Modulators. <i>Journal of Lightwave Technology</i> , 2018, 36, 4181-4189.	4.6	17
29	Ultra-efficient and stable EO dendrimers containing supramolecular homodimers of dipolar semifluorinated aromatics. , 2018, , .		1
30	Analysis of Ultra-High Speed Mach-Zehnder Hybrid Polymer/Sol-Gel Waveguide Modulators. , 2018, , .		0
31	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> , 2017, 5, 2230-2234.	5.5	26
32	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> , 2017, 19, 045503.	2.2	0
33	Integrated non-linear waveguide optics for high-efficiency THz sources. , 2017, , .		0
34	Silicon-organic hybrid (SOH) modulators for intensity-modulation / direct-detection links with line rates of up to 120 Gbit/s. <i>Optics Express</i> , 2017, 25, 23784.	3.4	40
35	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> , 2017, 7, 1909.	3.0	7
36	RF photonic downconversion of vector modulated signals based on a millimeter-wave coupled electrooptic nonlinear polymer phase-modulator. <i>Optics Express</i> , 2017, 25, 29885.	3.4	17

#	ARTICLE	IF	CITATIONS
37	Ultra-Broadband Mach-Zehnder Hybrid Electro-Optic Polymer/Sol-Gel Silica Waveguide Modulators. , 2017, , .		2
38	A surface-normal plasmonic modulator with electro-optic polymer in metallic slits. , 2016, , .		0
39	Towards a fully packaged high-performance RF sensor featuring slotted photonic crystal waveguides. , 2016, , .		1
40	PCBM-doped electro-optic materials: investigation of dielectric, optical and electro-optic properties for highly efficient poling. Journal of Materials Chemistry C, 2016, 4, 10286-10292.	5.5	40
41	Facile Thiolâ€Ene Thermal Crosslinking Reaction Facilitated Holeâ€Transporting Layer for Highly Efficient and Stable Perovskite Solar Cells. Advanced Energy Materials, 2016, 6, 1601165.	19.5	62
42	Rational Design of Dipolar Chromophore as an Efficient Dopant-Free Hole-Transporting Material for Perovskite Solar Cells. Journal of the American Chemical Society, 2016, 138, 11833-11839.	13.7	178
43	EO polymer at cryogenic temperatures. Electronics Letters, 2016, 52, 1703-1705.	1.0	4
44	High Performance Optical Modulator Based on Electro-Optic Polymer Filled Silicon Slot Photonic Crystal Waveguide. Journal of Lightwave Technology, 2016, 34, 2941-2951.	4.6	81
45	Hybrid plasmonic/electro-optic polymer modulator. , 2016, , .		0
46	Analysis of efficiently poled electro-optic polymer/Tio2 vertical slot waveguide modulators. Optics Communications, 2016, 362, 77-80.	2.1	16
47	Electro-optic polymer/TiO<inf>2</inf> vertical slot waveguide modulators. , 2015, , .		0
48	Improved Carrier-to-Sideband Ratio for Free Space Millimeter Wave-Coupled Electro-Optic Polymer High Speed Phase Modulators. , 2015, , .		0
49	Poling efficiency enhancement of tethered binary nonlinear optical chromophores for achieving an ultrahigh $n^{(3)}$ figure-of-merit of 2601 pm V <sup>-1</sup> . Journal of Materials Chemistry C, 2015, 3, 6737-6744.	5.5	36
50	100 Gbit/s OOK using a silicon-organic hybrid (SOH) modulator. , 2015, , .		12
51	Backside-gate-assisted broadband modulation on silicon-polymer hybrid photonic crystal waveguide. , 2015, , .		0
52	Antenna-coupled silicon-organic hybrid integrated photonic crystal modulator for broadband electromagnetic wave detection. Proceedings of SPIE, 2015, , .	0.8	3
53	Surface-normal plasmonic modulator using sub-wavelength metal grating on electro-optic polymer thin film. Optics Communications, 2015, 352, 116-120.	2.1	28
54	Free space millimeter wave-coupled electro-optic high speed nonlinear polymer phase modulator with in-plane slotted patch antennas. Optics Express, 2015, 23, 9464.	3.4	34

#	ARTICLE	IF	CITATIONS
55	Mechanism that governs the electro-optic response of second-order nonlinear polymers on silicon substrates. <i>Optical Materials Express</i> , 2015, 5, 1653.	3.0	9
56	Corrections to “A Silicon-Polymer Hybrid Modulator” Design, Simulation, and Proof of Principle [Dec 13 4067-4072]. <i>Journal of Lightwave Technology</i> , 2015, 33, 3358-3358.	4.6	0
57	Broadband energy-efficient optical modulation by hybrid integration of silicon nanophotonics and organic electro-optic polymer. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
58	High-speed Energy-efficient Silicon-polymer Hybrid Integrated Slot Photonic Crystal Waveguide Modulator. , 2015, , .		0
59	Broadband Low-power Optical Modulator Based on Electro-optic Polymer Infiltrated Silicon Slot Photonic Crystal Waveguide. , 2014, , .		6
60	Electro-optic polymer/TiO <sub>2</sub> multilayer slot waveguide modulators. , 2014, , .		0
61	High-performance Optical Modulator Based on Electro-optic Polymer Infiltrated Silicon Slot Photonic Crystal Waveguide. , 2014, , .		0
62	Surface-plasmon-enhanced third-order harmonic generation of organic materials. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
63	Spontaneously poling of electro-optic polymer thin films across a 1.1-mm thick glass substrate by pyroelectric crystals. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	6
64	Miniaturized low-power electro-optic modulator based on silicon integrated nanophotonics and organic polymers. , 2014, , .		0
65	Electro-optic Polymer Infiltrated Silicon Slot Photonic Crystal Waveguide for Broadband Electromagnetic Field Sensing. , 2014, , .		1
66	Ultralow Power Consumption of 1.5nW Over Wide Optical Spectrum Range in Silicon Organic Hybrid Modulator. , 2014, , .		0
67	Electrical and electro-optic characterization of nonlinear polymer thin films on silicon substrate. , 2014, , .		0
68	Unprecedented highest electro-optic coefficient of 226 pm/V for electro-optic polymer/TiO <sub>2</sub> multilayer slot waveguide modulators. <i>Optics Express</i> , 2014, 22, 27725.	3.4	48
69	Mesoporous sol-gel silica cladding for hybrid TiO <sub>2</sub> /electro-optic polymer waveguide modulators. <i>Optics Express</i> , 2014, 22, 16418.	3.4	10
70	Enhanced third harmonic generation by organic materials on high-Q plasmonic photonic crystals. <i>Optics Express</i> , 2014, 22, 20292.	3.4	4
71	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> , 2014, 22, 30191.	3.4	17
72	Characterization of coplanar poled electro optic polymer films for Si-photonic devices with multiphoton microscopy. <i>Applied Physics Letters</i> , 2014, 104, 161109.	3.3	3

#	ARTICLE	IF	CITATIONS
73	Time-, Energy-, and Phase-Resolved Second-Harmonic Generation at Semiconductor Interfaces. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27981-27988.	3.1	19
74	Hybrid silicon-electro-optic-polymer integrated high-performance optical modulator. , 2014, , .		5
75	Integrated Photonic Electromagnetic Field Sensor Based on Broadband Bowtie Antenna Coupled Silicon Organic Hybrid Modulator. <i>Journal of Lightwave Technology</i> , 2014, 32, 3774-3784.	4.6	113
76	Silica/Electro-Optic Polymer Optical Modulator With Integrated Antenna for Microwave Receiving. <i>Journal of Lightwave Technology</i> , 2014, 32, 3861-3867.	4.6	34
77	Modification of a Teng-Man technique to measure both $r_{33}$ and $r_{13}$ electro-optic coefficients. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	4
78	Ultrapformance nanophotonic modulator based on silicon organic hybrid technology. , 2014, , .		0
79	Electric Field Detection Using an Electro-optic Polymer Refilled Silicon Slot Photonic Crystal Waveguide. , 2014, , .		3
80	Hybrid Electro-Optic Polymer/TiO <sub>2</sub> Multilayer Waveguide Modulators on Mesoporous Sol-Gel Silica Cladding. , 2014, , .		0
81	Plasmon-Enhanced Third-Order Harmonic Generation in Plasmonic-Organic Photonic Crystals. , 2014, , .		0
82	Wideband Electromagnetic Wave Sensing Using Electro-optic Polymer Infiltrated Silicon Slot Photonic Crystal Waveguide. , 2014, , .		1
83	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> , 2013, 4, 5760.	3.9	14
84	Photo-induced denitrogenation of triazoline moieties for efficient photo-assisted poling of electro-optic polymers. <i>Polymer Chemistry</i> , 2013, 4, 4434.	3.9	12
85	Highly Efficient Organic Electrooptic Materials and Their Hybrid Systems for Advanced Photonic Devices. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013, 19, 42-53.	2.9	33
86	Configurable silicon photonic crystal waveguides. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	2
87	A Silicon-Polymer Hybrid Modulatorâ€™ Design, Simulation and Proof of Principle. <i>Journal of Lightwave Technology</i> , 2013, 31, 4067-4072.	4.6	37
88	Configurable silicon photonics with electron beam bleaching. , 2013, , .		0
89	Cascading Retro-Dielsâ€™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> , 2013, 2, 256-259.	4.8	10
90	Wide optical spectrum range, subvolt, compact modulator based on an electro-optic polymer refilled silicon slot photonic crystal waveguide. <i>Optics Letters</i> , 2013, 38, 4931.	3.3	101

#	ARTICLE	IF	CITATIONS
91	High Q silicon photonic crystal cavities for functional cladding materials. , 2013, , .		0
92	Fabrication of high Q-cavities with functional polymer cladding. , 2013, , .		0
93	Electro-Optic Polymer/TiO <sub>2</sub> Multilayer Slot Waveguide Modulators for Optical Interconnections. , 2013, , .		0
94	Demonstration of Effective In-device $r_{33}$ over 1000 pm/V in Electro-optic Polymer Refilled Silicon Slot Photonic Crystal Waveguide Modulator. , 2013, , .		4
95	Trimming of high-Q-factor silicon ring resonators by electron beam bleaching. Optics Letters, 2012, 37, 3114.	3.3	41
96	Enhanced temporal stability of a highly efficient guest-host electro-optic polymer through a barrier layer assisted poling process. Journal of Materials Chemistry, 2012, 22, 20353.	6.7	23
97	Electro-optic polymer/TiO <sub>2</sub> multilayer slot waveguide modulators. Applied Physics Letters, 2012, 101, .	3.3	48
98	Dipolar Chromophore Facilitated Huisgen Cross-Linking Reactions for Highly Efficient and Thermally Stable Electrooptic Polymers. ACS Macro Letters, 2012, 1, 793-796.	4.8	25
99	Achieving excellent electro-optic activity and thermal stability in poled polymers through an expeditious crosslinking process. Journal of Materials Chemistry, 2012, 22, 951-959.	6.7	47
100	Photonic crystal cavity definition by electron beam bleaching of chromophore doped polymer cladding. , 2012, , .		1
101	High-Order Optical Quality Blends of Anionic Polymethine Salts and Polycarbonate with Enhanced Third-Order Nonlinearities for Silicon-Organic Hybrid Devices. Advanced Materials, 2012, 24, OP326-30.	21.0	28
102	Push-pull tetraene chromophores derived from dialkylaminophenyl, tetrahydroquinolinyl and julolidinyl moieties: optimization of second-order optical nonlinearity by fine-tuning the strength of electron-donating groups. Journal of Materials Chemistry, 2012, 22, 16390.	6.7	75
103	Efficient Poling of Electro-Optic Polymers in Thin Films and Silicon Slot Waveguides by Detachable Pyroelectric Crystals. Advanced Materials, 2012, 24, OP42-7.	21.0	28
104	Electro-Optical Materials: Efficient Poling of Electro-Optic Polymers in Thin Films and Silicon Slot Waveguides by Detachable Pyroelectric Crystals (Adv. Mater. 10/2012). Advanced Materials, 2012, 24, OP1.	21.0	4
105	Facile structure and property tuning through alteration of ring structures in conformationally locked phenyltetraene nonlinear optical chromophores. Journal of Materials Chemistry, 2011, 21, 4437.	6.7	52
106	Polymeric hybrid waveguide modulators with high optical stability and high electro-optic coefficient. , 2011, , .		2
107	Tailored Organic Electro-optic Materials and Their Hybrid Systems for Device Applications. Chemistry of Materials, 2011, 23, 544-553.	6.7	110
108	Towards a low-loss, ultra-low drive voltage silicon-polymer hybrid electro-optic modulator. , 2011, , .		1

#	ARTICLE	IF	CITATIONS
109	Optical Transmission Stability of Hybrid Sol-Gel Silica/Electrooptic Polymer Waveguide Modulators. IEEE Photonics Technology Letters, 2011, 23, 1508-1510.	2.5	8
110	Broadband terahertz characterization of the refractive index and absorption of some important polymeric and organic electro-optic materials. Journal of Applied Physics, 2011, 109, 043505-043505-5.	2.5	342
111	Sub-Volt Silicon-Organic Electro-optic Modulator With 500 MHz Bandwidth. Journal of Lightwave Technology, 2011, 29, 1112-1117.	4.6	42
112	Electric-field sensors utilizing coupling between a D-fiber and an electro-optic polymer slab. Applied Optics, 2011, 50, 3505.	2.1	21
113	Silicon-polymer hybrid slot waveguide ring-resonator modulator. Optics Express, 2011, 19, 3952.	3.4	114
114	Electro-optic polymer spatial light modulator based on a Fabry-Perot interferometer configuration. Optics Express, 2011, 19, 12750.	3.4	10
115	Effective in-device $r_{33}$ of 735 pm/V on electro-optic polymer infiltrated silicon photonic crystal slot waveguides. Optics Letters, 2011, 36, 882.	3.3	126
116	High speed electro-optic polymer phase modulator using an in-plane slotline RF waveguide. Proceedings of SPIE, 2011, , .	0.8	5
117	Electro-optic polymer electric field sensor. Proceedings of SPIE, 2011, , .	0.8	1
118	A Triptycene-Containing Chromophore for Improved Temporal Stability of Highly Efficient Guest-Host Electrooptic Polymers. Macromolecules, 2011, 44, 1261-1265.	4.8	23
119	Short hybrid polymer/sol-gel silica waveguide switches with high in-device electro-optic coefficient based on photostable chromophore. AIP Advances, 2011, 1, .	1.3	27
120	Simplified Reflection Fabry-Perot Method for Determination of Electro-Optic Coefficients of Poled Polymer Thin Films. Polymers, 2011, 3, 1310-1324.	4.5	10
121	Slow Light Enhanced E-O Polymer Nano-Photonic Modulator with Ultra-High Effective In-Device $r_{33}$ . , 2011, , .		1
122	Multi GHz modulation in ultra compact organic-inorganic structures. Proceedings of SPIE, 2010, , .	0.8	0
123	Hybrid silicon-organic racetrack resonator designs for electro-optical modulation. Proceedings of SPIE, 2010, , .	0.8	1
124	Mach-Zehnder interferometry method for decoupling electro-optic and piezoelectric tensor components in poled polymer films. Proceedings of SPIE, 2010, , .	0.8	2
125	High speed electro-optic modulation in hybrid silicon on insulator slotted photonic crystal. , 2010, , .		0
126	Molecular Design and Supramolecular Organization of Highly Efficient Nonlinear Optical Chromophores for Exceptional Electro-Optic Properties. ACS Symposium Series, 2010, , 51-66.	0.5	3



#	ARTICLE	IF	CITATIONS
127	A low V <sub>π</sub> L modulator with GHz bandwidth based on an electro-optic polymer-clad silicon slot waveguide. , 2010, , .		1
128	Highly efficient electro-optic polymers through improved poling using a thin TiO <sub>2</sub> -modified transparent electrode. Applied Physics Letters, 2010, 96, .	3.3	70
129	Ultra-compact silicon nanophotonic modulator based on electro-optic polymer infiltrated slot photonic crystal waveguide. Proceedings of SPIE, 2010, , .	0.8	3
130	Electro-optic polymer infiltrated silicon photonic crystal slot waveguide modulator with 23 dB slow light enhancement. Applied Physics Letters, 2010, 97, .	3.3	102
131	Mach-Zehnder interferometry method for decoupling electro-optic and piezoelectric effects in poled polymer films. Applied Physics Letters, 2010, 97, .	3.3	25
132	Field-induced guiding optical devices made from electro-optic polymers. Applied Optics, 2010, 49, 892.	2.1	4
133	Electro-optic modulator with exceptional power-size performance enabled by transparent conducting electrodes. Optics Express, 2010, 18, 6779.	3.4	13
134	Demonstration of a low V <sub>π</sub> L modulator with GHz bandwidth based on electro-optic polymer-clad silicon slot waveguides. Optics Express, 2010, 18, 15618.	3.4	134
135	Alignment-free fabrication of a hybrid electro-optic polymer/ion-exchange glass coplanar modulator. Optics Express, 2010, 18, 21038.	3.4	12
136	40 GHz electro-optic modulation in hybrid silicon-organic slotted photonic crystal waveguides. Optics Letters, 2010, 35, 2753.	3.3	65
137	Rational Design Using Dewar's Rules for Enhancing the First Hyperpolarizability of Nonlinear Optical Chromophores. Journal of Physical Chemistry C, 2010, 114, 22284-22288.	3.1	24
138	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. Chemistry of Materials, 2010, 22, 5601-5608.	6.7	46
139	Nano-Photonic Electro-Optic Polymer Modulator based on Photonic Band Gap Engineering. , 2009, , .		0
140	Hybrid electro-optic polymer/sol-gel waveguide directional coupler switches. Applied Physics Letters, 2009, 94, .	3.3	52
141	Compact Organic Electro-Optic (EO) Modulator with Ultra Low Switching Voltage and Large Bandwidth Using Transparent Conducting Oxides (TCO) Bridge Electrodes. , 2009, , .		0
142	Electro-optic polymer prism beam deflector. Optical Engineering, 2009, 48, 114601.	1.0	1
143	Supramolecular Self-Assembled Dendritic Nonlinear Optical Chromophores: Fine-Tuning of Arene-Perfluoroarene Interactions for Ultralarge Electro-Optic Activity and Enhanced Thermal Stability. Advanced Materials, 2009, 21, 1976-1981.	21.0	96
144	Electro-optic modulation in hybrid SOI and polymer slotted resonant photonic crystal heterostructures. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
145	Bias-free electro-optic polymer-based two-section Y-branch waveguide modulator with 22 dB linearity enhancement. <i>Optics Letters</i> , 2009, 34, 3277.	3.3	16
146	High $\hat{n}$ strip-loaded electro-optic polymer waveguide modulator with low insertion loss. <i>Optics Express</i> , 2009, 17, 3316.	3.4	33
147	Photo-Stability Measurement of Electro-Optic Polymer Waveguides With High Intensity at 1550-nm Wavelength. <i>Journal of Lightwave Technology</i> , 2009, 27, 1045-1050.	4.6	13
148	Electro-optic modulation in slotted resonant photonic crystal heterostructures. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	82
149	Molecular Mobility in Self-Assembled Dendritic Chromophore Glasses. <i>Journal of Physical Chemistry B</i> , 2009, 113, 14180-14188.	2.6	15
150	Controlled Diels-Alder Reactions Used To Incorporate Highly Efficient Polyenic Chromophores into Maleimide-Containing Side-Chain Polymers for Electro-Optics. <i>Macromolecules</i> , 2009, 42, 2438-2445.	4.8	39
151	Development of New Conjugated Polymers with Donor-Bridge-Acceptor Side Chains for High Performance Solar Cells. <i>Journal of the American Chemical Society</i> , 2009, 131, 13886-13887.	13.7	335
152	Domain-inversion-equivalent EO polymer based Y-fed directional coupler modulator with high linearity. , 2009, , .		0
153	Rational molecular design and supramolecular assembly of highly efficient organic electro-optic materials. <i>Journal of Materials Chemistry</i> , 2009, 19, 7410.	6.7	134
154	Nanophotonics in silicon-organic hybrid structures. , 2009, , .		0
155	Quantitative Determination of the Chromophore Alignment Induced by Electrode Contact Poling in Self-Assembled NLO Materials. <i>Bulletin of the Korean Chemical Society</i> , 2009, 30, 882-886.	1.9	9
156	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> , 2008, 14, 1281-1288.	2.9	9
157	Binary Chromophore Systems in Nonlinear Optical Dendrimers and Polymers for Large Electrooptic Activities. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8091-8098.	3.1	121
158	Thermally Cross-Linkable Hole-Transporting Materials for Improving Hole Injection in Multilayer Blue-Emitting Phosphorescent Polymer Light-Emitting Diodes. <i>Macromolecules</i> , 2008, 41, 9570-9580.	4.8	89
159	Electrooptic Polymer Modulator With Single-Mode to Multimode Waveguide Transitions. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 1051-1053.	2.5	17
160	Reinforced Site Isolation Leading to Remarkable Thermal Stability and High Electrooptic Activities in Cross-Linked Nonlinear Optical Dendrimers. <i>Chemistry of Materials</i> , 2008, 20, 6372-6377.	6.7	72
161	Polarization selective electro-optic polymer waveguide devices by direct electron beam writing. <i>Optics Express</i> , 2008, 16, 8472.	3.4	4
162	Electro-optic polymer cladding ring resonator modulators. <i>Optics Express</i> , 2008, 16, 18326.	3.4	67

#	ARTICLE	IF	CITATIONS
163	Donor-acceptor Thiolated Polyenic Chromophores Exhibiting Large Optical Nonlinearity and Excellent Photostability. <i>Chemistry of Materials</i> , 2008, 20, 5047-5054.	6.7	156
164	Transversely tapered hybrid electro-optic polymer/sol-gel Mach-Zehnder waveguide modulators. <i>Applied Physics Letters</i> , 2008, 92, 193508.	3.3	17
165	Broadband electro-optic polymer modulators with high electro-optic activity and low poling induced optical loss. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	49
166	Mesoscale Dynamics and Cooperativity of Networking Dendronized Nonlinear Optical Molecular Glasses. <i>Nano Letters</i> , 2008, 8, 754-759.	9.1	52
167	Modeling Photobleaching of Optical Chromophores: Light-Intensity Effects in Precise Trimming of Integrated Polymer Devices. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8051-8060.	3.1	24
168	Chromophore-Containing Polymers for Trace Explosive Sensors. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8072-8078.	3.1	24
169	Hybrid electro optic modulators with subvolt drive voltages. , 2008, , .		1
170	Novel transversely tapered hybrid electro-optic polymer/sol-gel waveguide modulators. , 2008, , .		0
171	Highly efficient EO polymers for low V <sub>π</sub> modulators. <i>Proceedings of SPIE</i> , 2008, , .	0.8	1
172	Nonlinear polymer-clad silicon slot waveguide modulator with a half wave voltage of 0.25V. <i>Applied Physics Letters</i> , 2008, 92, 163303.	3.3	195
173	Electro-optic polymer waveguide ring resonators defined with three electron beam irradiation effects. , 2008, , .		0
174	Electro-optic polymer prism beam deflector. , 2008, , .		0
175	Wideband 15THz response using organic electro-optic polymer emitter-sensor pairs at telecommunication wavelengths. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	102
176	Transparent Conducting Oxide (TCO) Electrode Based Organic Electro-optic (EO) Modulator with Ultra High Switching Voltage-Size Performance. , 2008, , .		0
177	Electro-optic polymer waveguide modulators with refractive index tapers leading to low coupling loss and a high confinement factor. , 2008, , .		0
178	Millimeter-wave Electrooptic Polymer-based Ring Resonator Modulation. , 2007, , .		0
179	Ultrahigh electro-optic coefficient of 170pm/V and low V <sub>π</sub> of 1V at 1.55μm in hybrid polymer/sol-gel waveguide modulators. , 2007, , .		0
180	Molecular mobility and transitions in complex organic systems studied by shear force microscopy. <i>Nanotechnology</i> , 2007, 18, 044009.	2.6	16

#	ARTICLE	IF	CITATIONS
181	Hybrid cross-linkable polymer/sol-gel waveguide modulators with 0.65V half wave voltage at 1550nm. Applied Physics Letters, 2007, 91, .	3.3	121
182	Fabrication of polymer integrated optical microring resonator with photobleaching method. , 2007, , .		0
183	Demonstration of Polymer-based Directional Coupler Modulator with High Linearity. , 2007, , .		3
184	Optical micro-resonator chemical sensor. , 2007, 6556, 308.		5
185	Electro-optic polymer microring resonators made by photobleaching. , 2007, , .		1
186	Improvement of electro-optic effect and novel waveguide structure in hybrid polymer/sol-gel modulators. , 2007, , .		0
187	Optical modulation from an electro-optic polymer based hybrid Fabry-Perot etalon using transparent conducting oxides. , 2007, , .		3
188	All-Dielectric Electrooptic Sensor Based on a Polymer Microresonator Coupled Side-Polished Optical Fiber. IEEE Sensors Journal, 2007, 7, 515-524.	4.7	32
189	Metal-slotted polymer optical waveguide device. Applied Physics Letters, 2007, 90, 243507.	3.3	8
190	Ultralarge and Thermally Stable Electro-Optic Activities from Supramolecular Self-Assembled Molecular Glasses. Journal of the American Chemical Society, 2007, 129, 488-489.	13.7	300
191	Transparent Conducting Oxide (TCO) Electrode Based High-speed Organic Electro-optic (EO) Modulator. , 2007, , .		0
192	Phenyltetraene-Based Nonlinear Optical Chromophores with Enhanced Chemical Stability and Electrooptic Activity. Organic Letters, 2007, 9, 4471-4474.	4.6	86
193	Nanostructured Functional Block Copolymers for Electrooptic Devices. Macromolecules, 2007, 40, 97-104.	4.8	30
194	Theory-Guided Design and Synthesis of Multichromophore Dendrimers: An Analysis of the Electro-optic Effect. Journal of the American Chemical Society, 2007, 129, 7523-7530.	13.7	149
195	Experimental Demonstration of a Linearized Polymeric Directional Coupler Modulator. IEEE Photonics Technology Letters, 2007, 19, 1762-1764.	2.5	13
196	Large Electro-optic Activity and Enhanced Thermal Stability from Diarylamino-phenyl-Containing High- $\hat{I}^2$ Nonlinear Optical Chromophores. Chemistry of Materials, 2007, 19, 1154-1163.	6.7	164
197	Highly Efficient Diels-Alder Crosslinkable Electro-Optic Dendrimers for Electric-Field Sensors. Advanced Functional Materials, 2007, 17, 2557-2563.	14.9	73
198	Hybrid polymer/sol-gel waveguide modulators with exceptionally large electro-optic coefficients. Nature Photonics, 2007, 1, 180-185.	31.4	331

#	ARTICLE	IF	CITATIONS
199	Electrooptic Polymer Ring Resonator Modulation up to 165 GHz. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 104-110.	2.9	81
200	Two-Photon Absorption in Quadrupolar Bis(acceptor)-Terminated Chromophores with Electron-Rich Bis(heterocycle)vinylene Bridges. Chemistry of Materials, 2007, 19, 432-442.	6.7	66
201	New paradigm for ultrahigh electro-optic activity: through supramolecular self-assembly and novel lattice hardening. , 2007, , .		0
202	Diels-Alder "Click Chemistry" for Highly Efficient Electrooptic Polymers. Macromolecules, 2006, 39, 1676-1680.	4.8	125
203	Facile Synthesis of Highly Efficient Phenyltetraene-Based Nonlinear Optical Chromophores for Electrooptics. Organic Letters, 2006, 8, 1387-1390.	4.6	85
204	Pyrroline Chromophores for Electro-Optics. Chemistry of Materials, 2006, 18, 2982-2988.	6.7	114
205	Broadband electric field sensor with electro-optic polymer micro-ring resonator on side-polished optical fiber. , 2006, , .		2
206	Low-voltage electro-optic polymer modulators. , 2006, , .		3
207	Millimeter-wave ring resonator based electro-optic polymer modulator. , 2006, , .		1
208	Low half-wave voltage and high electro-optic effect in hybrid polymer/sol-gel waveguide modulators. Applied Physics Letters, 2006, 89, 143506.	3.3	40
209	Enhanced thermal stability of electrooptic polymer Modulators using the diels-alder crosslinkable polymer. IEEE Photonics Technology Letters, 2006, 18, 175-177.	2.5	28
210	High-speed AJL8/APC polymer modulator. IEEE Photonics Technology Letters, 2006, 18, 1207-1209.	2.5	33
211	Photobleaching Fabrication of Microring Resonator in a Chromophore-Containing Polymer. IEEE Photonics Technology Letters, 2006, 18, 2221-2223.	2.5	18
212	Bonding and Molecular Environment Effects on Near-Infrared Optical Absorption Behavior in Nonlinear Optical Monoazo Chromophore-Polymer Materials. Macromolecules, 2006, 39, 7566-7577.	4.8	19
213	Linear and Nonlinear Optical Properties of a Macrocyclic Trichromophore Bundle with Parallel-Aligned Dipole Moments. Journal of Physical Chemistry B, 2006, 110, 5434-5438.	2.6	45
214	Ring resonator-based electrooptic polymer traveling-wave modulator. Journal of Lightwave Technology, 2006, 24, 3514-3519.	4.6	87
215	Efficient CdSe/CdS Quantum Dot Light-Emitting Diodes Using a Thermally Polymerized Hole Transport Layer. Nano Letters, 2006, 6, 463-467.	9.1	502
216	Pulse poling of high performance nonlinear chromophores in polymers. , 2006, , .		0

#	ARTICLE	IF	CITATIONS
217	Terahertz all-optical modulation in a silicon-polymer hybrid system. <i>Nature Materials</i> , 2006, 5, 703-709.	27.5	276
218	Ultralarge and Thermally Stable Electro-optic Activities from Diels-Alder Crosslinkable Polymers Containing Binary Chromophore Systems. <i>Advanced Materials</i> , 2006, 18, 3038-3042.	21.0	105
219	Material and Interface Engineering for Highly Efficient Polymer Light Emitting Diodes. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 2006, 46, 7-26.	2.2	13
220	Pockel's coefficient enhancement of poled electro-optic polymers with a hybrid organic-inorganic sol-gel cladding layer. <i>Applied Physics Letters</i> , 2006, 89, 131102.	3.3	48
221	Low drive voltage Fabry-Perot filter device tunable filters using poled hybrid sol-gel materials. <i>Applied Physics Letters</i> , 2006, 89, 041127.	3.3	23
222	Third-order nonlinearity contribution to electro-optic activity in polymer materials in a constant bias field. <i>Applied Physics Letters</i> , 2006, 88, 041115.	3.3	3
223	Hybrid Fabry-Perot filter using an electro-optic polymer for optical modulation. <i>Applied Physics Letters</i> , 2006, 89, 141113.	3.3	17
224	Tunable Fabry-Perot Filters using Electro-Optic Hybrid Sol-Gel. , 2006, , .		0
225	Demonstration of 28 GHz ring resonator based electro-optic polymer modulator. , 2006, , .		2
226	Optimizing electro-optic activity in chromophore/polymer composites and in organic chromophore glasses. , 2005, , .		2
227	A biased push-pull technique to achieve fractional volt half-wave voltage of Mach-Zehnder modulators. , 2005, , .		1
228	Acentric lattice electro-optic materials by rational design. , 2005, , .		3
229	Feasibility study of integration of electro-optic polymer waveguide device with MOSFET circuitry on silicon. , 2005, , .		3
230	A novel approach to achieve highly efficient nonlinear optical polymers from guest-host systems. , 2005, , .		0
231	Organic electro-optic glasses for WDM applications. , 2005, , .		0
232	Exceptional electro-optic properties through molecular design and controlled self-assembly. , 2005, 5935, 49.		13
233	Low temperature relaxations and effects on poling efficiencies of dendronized nonlinear optical side-chain polymers. <i>Applied Physics Letters</i> , 2005, 86, 211908.	3.3	13
234	Electro-optic coefficients of 500 pm/V and beyond for organic materials. , 2005, , .		19

#	ARTICLE	IF	CITATIONS
235	Low-voltage organic electro-optic modulators using transparent conducting oxides as electrodes. , 2005, , .		1
236	Highly Efficient Electrophosphorescent Devices with Saturated Red Emission from a Neutral Osmium Complex. Chemistry of Materials, 2005, 17, 3532-3536.	6.7	91
237	Organic electro-optic modulator using transparent conducting oxides as electrodes. Optics Express, 2005, 13, 7380.	3.4	61
238	Electro-optic properties of hybrid solgel doped with a nonlinear chromophore with large hyperpolarizability. Optics Letters, 2005, 30, 117.	3.3	15
239	Very large electro-optic coefficients from in situ generated side-chain nonlinear optical polymers. Applied Physics Letters, 2005, 87, 071109.	3.3	20
240	Systematic Study of the Structure~Property Relationship of a Series of Ferrocenyl Nonlinear Optical Chromophores. Journal of the American Chemical Society, 2005, 127, 2758-2766.	13.7	168
241	Exceptional Electro-Optic Properties through Supramolecular Self-Assembly. , 2005, , .		0
242	Organic/Inorganic Hybrid Sol-Gels as Cladding Materials for Electro-Optic Polymer Based Devices. , 2005, , .		0
243	Thermally Stable Electro-Optic Polymer Modulator Using Diels-Alder Cross-linkable Polymer. , 2005, , .		0
244	Low V~ Optical Polymer Modulator With Novel Poling Strategy. , 2005, , .		0
245	Resonance enhanced THz generation in electro-optic polymers near the absorption maximum. Applied Physics Letters, 2004, 85, 5827-5829.	3.3	80
246	Recent progress in developing highly efficient and thermally stable nonlinear optical polymers for electro-optics. , 2004, , .		41
247	A Side-Chain Dendronized Nonlinear Optical Polyimide with Large and Thermally Stable Electrooptic Activity. Macromolecules, 2004, 37, 248-250.	4.8	105
248	Highly Fluorinated and Crosslinkable Dendritic Polymer for Photonic Applications. Macromolecular Rapid Communications, 2004, 25, 1667-1673.	3.9	37
249	Replica-molded electro-optic polymer Mach~Zehnder modulator. Applied Physics Letters, 2004, 85, 1662-1664.	3.3	72
250	Nanoscale Architectural Control and Macromolecular Engineering of Nonlinear Optical Dendrimers and Polymers for Electro-Optics~. Journal of Physical Chemistry B, 2004, 108, 8523-8530.	2.6	160
251	A Novel Lattice-Hardening Process To Achieve Highly Efficient and Thermally Stable Nonlinear Optical Polymers. Macromolecules, 2004, 37, 688-690.	4.8	85
252	Organic electro-optic materials. , 2004, , .		7

#	ARTICLE	IF	CITATIONS
253	Efficient, wideband THz emission from thin electro-optic polymer films. , 2004, , .		0
254	Nanostructured functional dendrimers and polymers for photonics. Comptes Rendus Chimie, 2003, 6, 895-902.	0.5	7
255	Highly Efficient and Thermally Stable Electro-optic Polymer from a Smartly Controlled Crosslinking Process. Advanced Materials, 2003, 15, 1635-1638.	21.0	72
256	Hyperbranched polyarylenes. Comptes Rendus Chimie, 2003, 6, 833-842.	0.5	35
257	Synthesis and optical properties of hyperbranched polyarylenes. Optical Materials, 2003, 21, 315-320.	3.6	29
258	Efficient Green-Light-Emitting Diodes from Silole-Containing Copolymers. Chemistry of Materials, 2003, 15, 3496-3500.	6.7	123
259	A Hyperbranched Aromatic Fluoropolyester for Photonic Applications. Macromolecules, 2003, 36, 4355-4359.	4.8	67
260	Recent progress in developing highly efficient nonlinear optical chromophores and side-chain dendronized polymers for electro-optics. , 2003, , .		9
261	Nanoscale architectural control of organic functional materials for photonics. , 2003, 5224, 104.		6
262	New paradigm to realize the full potential of organic electro-optic materials via nanoscale tailoring and smartly-controlled lattice hardening. , 2003, , ThQQ1.		0
263	Highly efficient organic light-emitting diodes with a silole-based compound. Applied Physics Letters, 2002, 81, 574-576.	3.3	199
264	Dendritic NLO chromophore with fluorinated dendrons for improving poling efficiency in electro-optic devices. , 2002, 4809, 79.		0
265	Nanoscale tailoring of dendrimers and polymers for photonic and optoelectronic applications. , 2002, , .		1
266	Novel perfluorocyclobutane (PFCB)-containing polymers and dendrimers for photonic devices. , 2002, 4805, 19.		1
267	Functional Polyacetylenes:Â Synthesis, Thermal Stability, Liquid Crystallinity, and Light Emission of Polypropiolates. Macromolecules, 2002, 35, 8288-8299.	4.8	77
268	Simple Synthesis, Outstanding Thermal Stability, and Tunable Light-Emitting and Optical-Limiting Properties of Functional Hyperbranched Polyarylenes. Macromolecules, 2002, 35, 5349-5351.	4.8	86
269	Liquid Crystalline and Light Emitting Polyacetylenes:Â Synthesis and Properties of Biphenyl-Containing Poly(1-alkynes) with Different Functional Bridges and Spacer Lengths. Macromolecules, 2002, 35, 1229-1240.	4.8	76
270	Polycyclotrimerization of Dienes:â€ Synthesis and Properties of Hyperbranched Polyphenylenes. Macromolecules, 2002, 35, 5821-5834.	4.8	85



#	ARTICLE	IF	CITATIONS
271	New nonlinear optical chromophores exhibiting good transparency and large nonlinearity: synthesis and characterization of chromophores with stilbene and ring-locked triene as a combined conjugation bridge. <i>Journal of Materials Chemistry</i> , 2002, 12, 863-867.	6.7	24
272	Large electro-optic activity and low optical loss derived from a highly fluorinated dendritic nonlinear optical chromophore. <i>Chemical Communications</i> , 2002, , 888-889.	4.1	104
273	Design, Synthesis, and Properties of Highly Efficient Side-Chain Dendronized Nonlinear Optical Polymers for Electro-Optics. <i>Advanced Materials</i> , 2002, 14, 1763-1768.	21.0	124
274	Highly Efficient and Thermally Stable Electro-Optical Dendrimers for Photonics. <i>Advanced Functional Materials</i> , 2002, 12, 565-574.	14.9	209
275	Synthesis and photoluminescence of liquid crystalline poly(1-alkynes). <i>Thin Solid Films</i> , 2002, 417, 143-146.	1.8	8
276	A Postfunctionalization Strategy To Develop PVK <sup>+</sup> -Based Nonlinear Optical Polymers with a High Density of Chromophores and Improved Processibility. <i>Chemistry of Materials</i> , 2001, 13, 927-931.	6.7	44
277	The design of second-order nonlinear optical chromophores exhibiting blue-shifted absorption and large nonlinearities: the role of the combined conjugation bridge. <i>Chemical Communications</i> , 2001, , 171-172.	4.1	58
278	Rapid Fabrication of Three-Dimensional Porous Films with Biomimetic Patterns by Natural Evaporation of Amphiphilic Polyacetylene Solutions under Ambient Conditions. <i>Journal of Nanoscience and Nanotechnology</i> , 2001, 1, 137-141.	0.9	17
279	Liquid crystalline light-emitting thermally stable readily processable substituted polyacetylenes. , 2001, , .		1
280	Aggregation-induced emission of 1-methyl-1,2,3,4,5-pentaphenylsilole. <i>Chemical Communications</i> , 2001, , 1740-1741.	4.1	6,387
281	Synthesis and second-order optical nonlinearity of carbazolyl-substituted furan chromophores with high thermal stability and good transparency. <i>Journal of Chemical Research</i> , 2001, 2001, 418-420.	1.3	2
282	Synthesis and characterization of accordion main-chain azo-dye polymers for second-order optical non-linearity. <i>Polymer International</i> , 2000, 49, 1302-1307.	3.1	14
283	A novel synthetic strategy to develop second-order nonlinear optical polysilanes for potential photorefractive effects. <i>Macromolecular Rapid Communications</i> , 2000, 21, 1125-1129.	3.9	22
284	Bismaleimide resins modified by bi- or tri-allyl-functionalized azo chromophores for second-order optical nonlinearity. <i>Reactive and Functional Polymers</i> , 2000, 44, 219-225.	4.1	6
285	Novel polyphosphazenes containing charge-transporting agent and chromophore as pendant groups. <i>Polymer Bulletin</i> , 2000, 45, 105-111.	3.3	18
286	<title>Synthesis of several novel multifunctionalized chromophores for second-order NLO</title>. , 1998, 3556, 46.		2