

Jingdong Luo

List of Publications by Year in descending order

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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	Aggregation-induced emission of 1-methyl-1,2,3,4,5-pentaphenylsilole. <i>Chemical Communications</i> , 2001, , 1740-1741.	4.1	6,387
2	Efficient CdSe/CdS Quantum Dot Light-Emitting Diodes Using a Thermally Polymerized Hole Transport Layer. <i>Nano Letters</i> , 2006, 6, 463-467.	9.1	502
3	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	342
4	Development of New Conjugated Polymers with Donor- π -Bridge-Acceptor Side Chains for High Performance Solar Cells. <i>Journal of the American Chemical Society</i> , 2009, 131, 13886-13887.	13.7	335
5	Hybrid polymer/sol-gel waveguide modulators with exceptionally large electro-optic coefficients. <i>Nature Photonics</i> , 2007, 1, 180-185.	31.4	331
6	Ultralarge and Thermally Stable Electro-Optic Activities from Supramolecular Self-Assembled Molecular Glasses. <i>Journal of the American Chemical Society</i> , 2007, 129, 488-489.	13.7	300
7	Terahertz all-optical modulation in a silicon-polymer hybrid system. <i>Nature Materials</i> , 2006, 5, 703-709.	27.5	276
8	Highly Efficient and Thermally Stable Electro-Optical Dendrimers for Photonics. <i>Advanced Functional Materials</i> , 2002, 12, 565-574.	14.9	209
9	Highly efficient organic light-emitting diodes with a silole-based compound. <i>Applied Physics Letters</i> , 2002, 81, 574-576.	3.3	199
10	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
11	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, 11833-11839.	13.7	178
12	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, 2758-2766.	13.7	168
13	Large Electro-optic Activity and Enhanced Thermal Stability from Diarylamino-phenyl-Containing High- β^2 Nonlinear Optical Chromophores. <i>Chemistry of Materials</i> , 2007, 19, 1154-1163.	6.7	164
14	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.	2.6	160
15	Donor-Acceptor Thiolated Polyenic Chromophores Exhibiting Large Optical Nonlinearity and Excellent Photostability. <i>Chemistry of Materials</i> , 2008, 20, 5047-5054.	6.7	156
16	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, 7523-7530.	13.7	149
17	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
18	Demonstration of a low V_{π} modulator with GHz bandwidth based on electro-optic polymer-clad silicon slot waveguides. <i>Optics Express</i> , 2010, 18, 15618.	3.4	134

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19	Effective in-device r_{33} of 735 pm/V on electro-optic polymer infiltrated silicon photonic crystal slot waveguides. <i>Optics Letters</i> , 2011, 36, 882.	3.3	126
20	Diels-Alder "Click Chemistry" for Highly Efficient Electrooptic Polymers. <i>Macromolecules</i> , 2006, 39, 1676-1680.	4.8	125
21	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
22	Efficient Green-Light-Emitting Diodes from Silole-Containing Copolymers. <i>Chemistry of Materials</i> , 2003, 15, 3496-3500.	6.7	123
23	Hybrid cross-linkable polymer/sol-gel waveguide modulators with 0.65V half wave voltage at 1550nm. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	121
24	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
25	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
26	Pyrroline Chromophores for Electro-Optics. <i>Chemistry of Materials</i> , 2006, 18, 2982-2988.	6.7	114
27	Silicon-polymer hybrid slot waveguide "ring-resonator modulator. <i>Optics Express</i> , 2011, 19, 3952.	3.4	114
28	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
29	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
30	Tailored Organic Electro-optic Materials and Their Hybrid Systems for Device Applications. <i>Chemistry of Materials</i> , 2011, 23, 544-553.	6.7	110
31	A Side-Chain Dendronized Nonlinear Optical Polyimide with Large and Thermally Stable Electrooptic Activity. <i>Macromolecules</i> , 2004, 37, 248-250.	4.8	105
32	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
33	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
34	Wideband 15THz response using organic electro-optic polymer emitter-sensor pairs at telecommunication wavelengths. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	102
35	Electro-optic polymer infiltrated silicon photonic crystal slot waveguide modulator with 23 dB slow light enhancement. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	102
36	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

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37	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> , 2009, 21, 1976-1981.	21.0	96
38	Highly Efficient Electrophosphorescent Devices with Saturated Red Emission from a Neutral Osmium Complex. <i>Chemistry of Materials</i> , 2005, 17, 3532-3536.	6.7	91
39	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
40	Ring resonator-based electrooptic polymer traveling-wave modulator. <i>Journal of Lightwave Technology</i> , 2006, 24, 3514-3519.	4.6	87
41	Simple Synthesis, Outstanding Thermal Stability, and Tunable Light-Emitting and Optical-Limiting Properties of Functional Hyperbranched Polyarylenes. <i>Macromolecules</i> , 2002, 35, 5349-5351.	4.8	86
42	Phenyltetraene-Based Nonlinear Optical Chromophores with Enhanced Chemical Stability and Electrooptic Activity. <i>Organic Letters</i> , 2007, 9, 4471-4474.	4.6	86
43	A Generally Applicable Approach Using Sequential Deposition to Enable Highly Efficient Organic Solar Cells. <i>Small Methods</i> , 2020, 4, 2000687.	8.6	86
44	Polycyclotrimerization of Dienes: Synthesis and Properties of Hyperbranched Polyphenylenes. <i>Macromolecules</i> , 2002, 35, 5821-5834.	4.8	85
45	A Novel Lattice-Hardening Process To Achieve Highly Efficient and Thermally Stable Nonlinear Optical Polymers. <i>Macromolecules</i> , 2004, 37, 688-690.	4.8	85
46	Facile Synthesis of Highly Efficient Phenyltetraene-Based Nonlinear Optical Chromophores for Electrooptics. <i>Organic Letters</i> , 2006, 8, 1387-1390.	4.6	85
47	Electro-optic modulation in slotted resonant photonic crystal heterostructures. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	82
48	Electrooptic Polymer Ring Resonator Modulation up to 165 GHz. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007, 13, 104-110.	2.9	81
49	High Performance Optical Modulator Based on Electro-Optic Polymer Filled Silicon Slot Photonic Crystal Waveguide. <i>Journal of Lightwave Technology</i> , 2016, 34, 2941-2951.	4.6	81
50	Silicon-Organic Hybrid (SOH) Mach-Zehnder Modulators for 100 Gbit/s on-off Keying. <i>Scientific Reports</i> , 2018, 8, 2598.	3.3	81
51	Resonance enhanced THz generation in electro-optic polymers near the absorption maximum. <i>Applied Physics Letters</i> , 2004, 85, 5827-5829.	3.3	80
52	Functional Polyacetylenes: Synthesis, Thermal Stability, Liquid Crystallinity, and Light Emission of Polypropiolates. <i>Macromolecules</i> , 2002, 35, 8288-8299.	4.8	77
53	Liquid Crystalline and Light Emitting Polyacetylenes: Synthesis and Properties of Biphenyl-Containing Poly(1-alkynes) with Different Functional Bridges and Spacer Lengths. <i>Macromolecules</i> , 2002, 35, 1229-1240.	4.8	76
54	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. <i>Journal of Materials Chemistry</i> , 2012, 22, 16390.	6.7	75

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55	Highly Efficient Diels-Alder Crosslinkable Electro-Optic Dendrimers for Electric-Field Sensors. <i>Advanced Functional Materials</i> , 2007, 17, 2557-2563.	14.9	73
56	Highly Efficient and Thermally Stable Electro-optic Polymer from a Smartly Controlled Crosslinking Process. <i>Advanced Materials</i> , 2003, 15, 1635-1638.	21.0	72
57	Replica-molded electro-optic polymer Mach-Zehnder modulator. <i>Applied Physics Letters</i> , 2004, 85, 1662-1664.	3.3	72
58	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
59	Highly efficient electro-optic polymers through improved poling using a thin TiO ₂ -modified transparent electrode. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	70
60	A Hyperbranched Aromatic Fluoropolyester for Photonic Applications. <i>Macromolecules</i> , 2003, 36, 4355-4359.	4.8	67
61	Electro-optic polymer cladding ring resonator modulators. <i>Optics Express</i> , 2008, 16, 18326.	3.4	67
62	Two-Photon Absorption in Quadrupolar Bis(acceptor)-Terminated Chromophores with Electron-Rich Bis(heterocycle)vinylene Bridges. <i>Chemistry of Materials</i> , 2007, 19, 432-442.	6.7	66
63	40 GHz electro-optic modulation in hybrid silicon-organic slotted photonic crystal waveguides. <i>Optics Letters</i> , 2010, 35, 2753.	3.3	65
64	Facile Thiol-Ene Thermal Crosslinking Reaction Facilitated Hole-Transporting Layer for Highly Efficient and Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1601165.	19.5	62
65	Organic electro-optic modulator using transparent conducting oxides as electrodes. <i>Optics Express</i> , 2005, 13, 7380.	3.4	61
66	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
67	Mesoscale Dynamics and Cooperativity of Networking Dendronized Nonlinear Optical Molecular Classes. <i>Nano Letters</i> , 2008, 8, 754-759.	9.1	52
68	Hybrid electro-optic polymer/sol-gel waveguide directional coupler switches. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	52
69	Facile structure and property tuning through alteration of ring structures in conformationally locked phenyltetraene nonlinear optical chromophores. <i>Journal of Materials Chemistry</i> , 2011, 21, 4437.	6.7	52
70	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
71	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
72	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

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73	Electro-optic polymer/TiO ₂ multilayer slot waveguide modulators. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	48
74	Unprecedented highest electro-optic coefficient of 226 pm/V for electro-optic polymer/TiO ₂ multilayer slot waveguide modulators. <i>Optics Express</i> , 2014, 22, 27725.	3.4	48
75	Achieving excellent electro-optic activity and thermal stability in poled polymers through an expeditious crosslinking process. <i>Journal of Materials Chemistry</i> , 2012, 22, 951-959.	6.7	47
76	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> , 2010, 22, 5601-5608.	6.7	46
77	Asymmetric Isomer Effects in Benzo[<i>c</i>][1,2,5]thiadiazole-Fused Nonacyclic Acceptors: Dielectric Constant and Molecular Crystallinity Control for Significant Photovoltaic Performance Enhancement. <i>Advanced Functional Materials</i> , 2021, 31, 2104369.	14.9	46
78	Linear and Nonlinear Optical Properties of a Macrocyclic Trichromophore Bundle with Parallel-Aligned Dipole Moments. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5434-5438.	2.6	45
79	A Postfunctionalization Strategy To Develop PVK-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
80	Sub-Volt Silicon-Organic Electro-optic Modulator With 500 MHz Bandwidth. <i>Journal of Lightwave Technology</i> , 2011, 29, 1112-1117.	4.6	42
81	Recent progress in developing highly efficient and thermally stable nonlinear optical polymers for electro-optics. , 2004, , .		41
82	Trimming of high-Q-factor silicon ring resonators by electron beam bleaching. <i>Optics Letters</i> , 2012, 37, 3114.	3.3	41
83	Low half-wave voltage and high electro-optic effect in hybrid polymer/sol-gel waveguide modulators. <i>Applied Physics Letters</i> , 2006, 89, 143506.	3.3	40
84	PCBM-doped electro-optic materials: investigation of dielectric, optical and electro-optic properties for highly efficient poling. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10286-10292.	5.5	40
85	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
86	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
87	Highly Fluorinated and Crosslinkable Dendritic Polymer for Photonic Applications. <i>Macromolecular Rapid Communications</i> , 2004, 25, 1667-1673.	3.9	37
88	A Silicon-Polymer Hybrid Modulator-Design, Simulation and Proof of Principle. <i>Journal of Lightwave Technology</i> , 2013, 31, 4067-4072.	4.6	37
89	A Diradicaloid Small Molecular Nanotheranostic with Strong Near-Infrared Absorbance for Effective Cancer Photoacoustic Imaging and Photothermal Therapy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15983-15991.	8.0	37
90	Poling efficiency enhancement of tethered binary nonlinear optical chromophores for achieving an ultrahigh $n^2 \times r^2$ figure-of-merit of 2601 pm V ⁻¹ . <i>Journal of Materials Chemistry C</i> , 2015, 3, 6737-6744.	5.5	36

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91	Hyperbranched polyarylenes. <i>Comptes Rendus Chimie</i> , 2003, 6, 833-842.	0.5	35
92	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
93	Free space millimeter wave-coupled electro-optic high speed nonlinear polymer phase modulator with in-plane slotted patch antennas. <i>Optics Express</i> , 2015, 23, 9464.	3.4	34
94	Bioinspired Controllable Electrochromic Chemomechanical Coloration Films. <i>Advanced Functional Materials</i> , 2019, 29, 1806383.	14.9	34
95	High-speed AJL8/APC polymer modulator. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 1207-1209.	2.5	33
96	High \hat{n} strip-loaded electro-optic polymer waveguide modulator with low insertion loss. <i>Optics Express</i> , 2009, 17, 3316.	3.4	33
97	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
98	All-Dielectric Electrooptic Sensor Based on a Polymer Microresonator Coupled Side-Polished Optical Fiber. <i>IEEE Sensors Journal</i> , 2007, 7, 515-524.	4.7	32
99	Nanostructured Functional Block Copolymers for Electrooptic Devices. <i>Macromolecules</i> , 2007, 40, 97-104.	4.8	30
100	Synthesis and optical properties of hyperbranched polyarylenes. <i>Optical Materials</i> , 2003, 21, 315-320.	3.6	29
101	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
102	Enhanced thermal stability of electrooptic polymer Modulators using the diels-alder crosslinkable polymer. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 175-177.	2.5	28
103	High-Quality Blends of Anionic Polymethine Salts and Polycarbonate with Enhanced Third-Order Nonlinearities for Silicon-Organic Hybrid Devices. <i>Advanced Materials</i> , 2012, 24, OP326-30.	21.0	28
104	Efficient Poling of Electro-Optic Polymers in Thin Films and Silicon Slot Waveguides by Detachable Pyroelectric Crystals. <i>Advanced Materials</i> , 2012, 24, OP42-7.	21.0	28
105	Surface-normal plasmonic modulator using sub-wavelength metal grating on electro-optic polymer thin film. <i>Optics Communications</i> , 2015, 352, 116-120.	2.1	28
106	Short hybrid polymer/sol-gel silica waveguide switches with high in-device electro-optic coefficient based on photostable chromophore. <i>AIP Advances</i> , 2011, 1, .	1.3	27
107	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
108	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

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109	Mach ² Zehnder interferometry method for decoupling electro-optic and piezoelectric effects in poled polymer films. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	25
110	Dipolar Chromophore Facilitated Huisgen Cross-Linking Reactions for Highly Efficient and Thermally Stable Electrooptic Polymers. <i>ACS Macro Letters</i> , 2012, 1, 793-796.	4.8	25
111	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
112	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
113	Chromophore-Containing Polymers for Trace Explosive Sensors. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8072-8078.	3.1	24
114	Rational Design Using Dewar ³ Rules for Enhancing the First Hyperpolarizability of Nonlinear Optical Chromophores. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22284-22288.	3.1	24
115	A silicon ⁴ organic hybrid platform for quantum microwave-to-optical transduction. <i>Quantum Science and Technology</i> , 2020, 5, 034004.	5.8	24
116	Low drive voltage Fabry-P ⁵ rot ⁶ talon device tunable filters using poled hybrid sol-gel materials. <i>Applied Physics Letters</i> , 2006, 89, 041127.	3.3	23
117	A Triptycene-Containing Chromophore for Improved Temporal Stability of Highly Efficient Guest ⁷ Host Electrooptic Polymers. <i>Macromolecules</i> , 2011, 44, 1261-1265.	4.8	23
118	Enhanced temporal stability of a highly efficient guest ⁸ host electro-optic polymer through a barrier layer assisted poling process. <i>Journal of Materials Chemistry</i> , 2012, 22, 20353.	6.7	23
119	A novel synthetic strategy to develop second ⁹ order nonlinear optical polysilanes for potential photorefractive effects. <i>Macromolecular Rapid Communications</i> , 2000, 21, 1125-1129.	3.9	22
120	Electric-field sensors utilizing coupling between a D-fiber and an electro-optic polymer slab. <i>Applied Optics</i> , 2011, 50, 3505.	2.1	21
121	Very large electro-optic coefficients from in situ generated side-chain nonlinear optical polymers. <i>Applied Physics Letters</i> , 2005, 87, 071109.	3.3	20
122	Electro-optic coefficients of 500 pm/V and beyond for organic materials. , 2005, , .		19
123	Bonding and Molecular Environment Effects on Near-Infrared Optical Absorption Behavior in Nonlinear Optical Monoazo Chromophore ¹⁰ Polymer Materials. <i>Macromolecules</i> , 2006, 39, 7566-7577.	4.8	19
124	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
125	Development of a molecular K ⁺ probe for colorimetric/fluorescent/photoacoustic detection of K ⁺ . <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 6947-6957.	3.7	19
126	Critical Role of Non-classical Intermolecular Hydrogen Bonding in Affecting the π - π Stacking and Nonlinear Optical Properties of Tricyanofuran-Based Push ¹¹ Pull Heptamethines. <i>Chemistry of Materials</i> , 2021, 33, 3702-3711.	6.7	19

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127	Novel polyphosphazenes containing charge-transporting agent and chromophore as pendant groups. <i>Polymer Bulletin</i> , 2000, 45, 105-111.	3.3	18
128	Photobleaching Fabrication of Microring Resonator in a Chromophore-Containing Polymer. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 2221-2223.	2.5	18
129	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
130	Hybrid Fabry-Pérot Resonator using an electro-optic polymer for optical modulation. <i>Applied Physics Letters</i> , 2006, 89, 141113.	3.3	17
131	Electrooptic Polymer Modulator With Single-Mode to Multimode Waveguide Transitions. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 1051-1053.	2.5	17
132	Transversely tapered hybrid electro-optic polymer/sol-gel Mach-Zehnder waveguide modulators. <i>Applied Physics Letters</i> , 2008, 92, 193508.	3.3	17
133	Enhanced conductivity of sol-gel silica cladding for efficient poling in electro-optic polymer/TiO ₂ vertical slot waveguide modulators. <i>Optics Express</i> , 2014, 22, 30191.	3.4	17
134	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
135	Bandwidth Optimization for Mach-Zehnder Polymer/Sol-Gel Modulators. <i>Journal of Lightwave Technology</i> , 2018, 36, 4181-4189.	4.6	17
136	Ultrastretchable conductive liquid metal composites enabled by adaptive interfacial polarization. <i>Materials Horizons</i> , 2021, 8, 3399-3408.	12.2	17
137	Molecular mobility and transitions in complex organic systems studied by shear force microscopy. <i>Nanotechnology</i> , 2007, 18, 044009.	2.6	16
138	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
139	Analysis of efficiently poled electro-optic polymer/TiO ₂ vertical slot waveguide modulators. <i>Optics Communications</i> , 2016, 362, 77-80.	2.1	16
140	Electro-optic properties of hybrid solgel doped with a nonlinear chromophore with large hyperpolarizability. <i>Optics Letters</i> , 2005, 30, 117.	3.3	15
141	Molecular Mobility in Self-Assembled Dendritic Chromophore Glasses. <i>Journal of Physical Chemistry B</i> , 2009, 113, 14180-14188.	2.6	15
142	Photochemical Synthesis of Nonplanar Small Molecules with Ultrafast Nonradiative Decay for Highly Efficient Phototheranostics. <i>Advanced Materials</i> , 2021, 33, e2102799.	21.0	15
143	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
144	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

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145	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
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