

# Su Huang

## List of Publications by Year in descending order

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38  
papers

1,724  
citations

257450

24  
h-index

345221

36  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1649  
citing authors

#	ARTICLE	IF	CITATIONS
1	Donor-Acceptor Thiolated Polyenic Chromophores Exhibiting Large Optical Nonlinearity and Excellent Photostability. <i>Chemistry of Materials</i> , 2008, 20, 5047-5054.	6.7	156
2	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
3	Silicon-polymer hybrid slot waveguide ring-resonator modulator. <i>Optics Express</i> , 2011, 19, 3952.	3.4	114
4	Tailored Organic Electro-optic Materials and Their Hybrid Systems for Device Applications. <i>Chemistry of Materials</i> , 2011, 23, 544-553.	6.7	110
5	Wideband 15THz response using organic electro-optic polymer emitter-sensor pairs at telecommunication wavelengths. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	102
6	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
7	Phenyltetraene-Based Nonlinear Optical Chromophores with Enhanced Chemical Stability and Electrooptic Activity. <i>Organic Letters</i> , 2007, 9, 4471-4474.	4.6	86
8	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
9	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
10	Highly efficient electro-optic polymers through improved poling using a thin TiO <sub>2</sub> -modified transparent electrode. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	70
11	Electro-optic polymer cladding ring resonator modulators. <i>Optics Express</i> , 2008, 16, 18326.	3.4	67
12	Band Gap Insensitivity to Large Chemical Pressures in Ternary Bismuth Iodides for Photovoltaic Applications. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28924-28932.	3.1	54
13	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
14	Electrospray-Assisted Fabrication of Moisture-Resistant and Highly Stable Perovskite Solar Cells at Ambient Conditions. <i>Advanced Energy Materials</i> , 2017, 7, 1700210.	19.5	51
15	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
16	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
17	Sub-Volt Silicon-Organic Electro-optic Modulator With 500 MHz Bandwidth. <i>Journal of Lightwave Technology</i> , 2011, 29, 1112-1117.	4.6	42
18	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

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19	Poling efficiency enhancement of tethered binary nonlinear optical chromophores for achieving an ultrahigh $n^3r^3$ figure-of-merit of 2601 pm <sup>3</sup> . Journal of Materials Chemistry C, 2015, 3, 6737-6744.	5.5	36
20	Role of HF in Oxygen Removal from Carbon Nanotubes: Implications for High Performance Carbon Electronics. Nano Letters, 2014, 14, 6179-6184.	9.1	32
21	Nanostructured Functional Block Copolymers for Electrooptic Devices. Macromolecules, 2007, 40, 97-104.	4.8	30
22	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
23	Mach-Zehnder interferometry method for decoupling electro-optic and piezoelectric effects in poled polymer films. Applied Physics Letters, 2010, 97, .	3.3	25
24	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
25	First-principles Studies of Second-Order Nonlinear Optical Properties of Organic-Inorganic Hybrid Halide Perovskites. Physical Review Applied, 2020, 13, .	3.8	24
26	A Triptycene-Containing Chromophore for Improved Temporal Stability of Highly Efficient Guest-Host Electrooptic Polymers. Macromolecules, 2011, 44, 1261-1265.	4.8	23
27	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
28	Highly Stable Perovskite Solar Cells Fabricated Under Humid Ambient Conditions. IEEE Journal of Photovoltaics, 2017, 7, 532-538.	2.5	23
29	Effect of in situ applied electric field on the growth of La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> thin films by chemical solution deposition. Journal of Crystal Growth, 2004, 268, 198-203.	1.5	14
30	Electro-optic modulator with exceptional power-size performance enabled by transparent conducting electrodes. Optics Express, 2010, 18, 6779.	3.4	13
31	Scalable High-fidelity Growth of Semiconductor Nanorod Arrays with Controlled Geometry for Photovoltaic Devices Using Block Copolymers. Small, 2014, 10, 4304-4309.	10.0	10
32	Spontaneously poling of electro-optic polymer thin films across a 1.1-mm thick glass substrate by pyroelectric crystals. Applied Physics Letters, 2014, 105, .	3.3	6
33	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
34	PREPARATION AND CHARACTERIZATION OF PLZT FERROELECTRIC INVERSE OPAL. International Journal of Modern Physics B, 2005, 19, 2769-2774.	2.0	3
35	Ferroelectric SrBi <sub>2</sub> Ta <sub>2</sub> O <sub>9</sub> -SiO <sub>2</sub> Glass-Ceramic Thin Films in Metal/Ferroelectric/Insulator/Semiconductor Structures. Physica Status Solidi A, 2002, 193, R4-R6.	1.7	2
36	Mach-Zehnder interferometry method for decoupling electro-optic and piezoelectric tensor components in poled polymer films. Proceedings of SPIE, 2010, , .	0.8	2

#	ARTICLE	IF	CITATIONS
37	A low V<math>\pi</math>-&#x03C0;</math>L modulator with GHz bandwidth based on an electro-optic polymer-clad silicon slot waveguide. , 2010, , .		1
38	New paradigm for ultrahigh electro-optic activity: through supramolecular self-assembly and novel lattice hardening. , 2007, , .		0