Cheng Zhang

List of Publications by Year
in descending order

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76	4,645	136885	110317
papers	citations	32 h-index	64 g-index

78	78	78	4925
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-Performance Large-Scale Flexible Optoelectronics Using Ultrathin Silver Films with Tunable Properties. ACS Applied Materials & Interfaces, 2019, 11, 27216-27225.	4.0	47
2	Highly Transparent and Broadband Electromagnetic Interference Shielding Based on Ultrathin Doped Ag and Conducting Oxides Hybrid Film Structures. ACS Applied Materials & Interfaces, 2019, 11, 11782-11791.	4.0	88
3	Enhancing the Efficiencies of Organic Photovoltaic and Organic Light-Emitting Diode Devices by Regular Nano-Wrinkle Patterns. Journal of Shanghai Jiaotong University (Science), 2018, 23, 45-51.	0.5	5
4	Transparent Ultrathin Doped Silver Film for Broadband Electromagnetic Interference Shielding. , 2018, , .		3
5	Sustainable p-type copper selenide solar material with ultra-large absorption coefficient. Chemical Science, 2018, 9, 5405-5414.	3.7	20
6	Interchain and intrachain triplets in poly(3-thienylene vinylene) derivatives. Journal of Photonics for Energy, 2018, 8, 1.	0.8	0
7	4Hâ€cyclopenta[2,1â€b:3,4â€bâ€²]dithiophenâ€4â€one (CPDTO) homopolymer with side chains on every other CPDTO. Journal of Polymer Science Part A, 2017, 55, 1077-1085.	2.5	2
8	Air-coupled ultrasound detection using capillary-based optical ring resonators. Scientific Reports, 2017, 7, 109.	1.6	50
9	Highâ€Performance Doped Silver Films: Overcoming Fundamental Material Limits for Nanophotonic Applications. Advanced Materials, 2017, 29, 1605177.	11.1	90
10	Plasmonic Lithography Utilizing Epsilon Near Zero Hyperbolic Metamaterial. ACS Nano, 2017, 11, 9863-9868.	7.3	33
11	Semitransparent and Flexible Mechanically Reconfigurable Electrically Small Antennas Based on Tortuous Metallic Micromesh. IEEE Transactions on Antennas and Propagation, 2017, 65, 150-158.	3.1	58
12	Printed photonic elements: nanoimprinting and beyond. Journal of Materials Chemistry C, 2016, 4, 5133-5153.	2.7	71
13	Breaking Malusâ€™ law: Highly efficient, broadband, and angular robust asymmetric light transmitting metasurface. Laser and Photonics Reviews, 2016, 10, 791-798.	4.4	38
14	Thermal Liquefaction of Lignin to Aromatics: Efficiency, Selectivity, and Product Analysis. ACS Sustainable Chemistry and Engineering, 2016, 4, 5106-5122.	3.2	82
15	Synthesis and characterization of poly(3,5-didodecyl-cyclopenta[2,1-b;3,4-bâ€²]dithiophen-4-one). Synthetic Metals, 2016, 221, 275-283.	2.1	1
16	An oligothiophene chromophore with a macrocyclic side chain: synthesis, morphology, charge transport, and photovoltaic performance. RSC Advances, 2016, 6, 102043-102056.	1.7	3
17	Highâ€Performance Ta₂O₅/Alâ€Doped Ag Electrode for Resonant Light Harvesting in Efficient Organic Solar Cells. Advanced Energy Materials, 2015, 5, 1500768.	10.2	71
18	Photochemical stability of dicyanoâ€substituted poly(phenylenevinylenes) with different side chains. Journal of Polymer Science Part A, 2015, 53, 2820-2828.	2.5	4

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19	Review of Imprinted Polymer Microrings as Ultrasound Detectors: Design, Fabrication, and Characterization. IEEE Sensors Journal, 2015, 15, 3241-3248.	2.4	73
20	Opposite effects of a singlet oxygen quencher on photochemical degradation of dicyano-substituted poly(phenylenevinylenes) with different side chains. Polymer Degradation and Stability, 2015, 122, 146-152.	2.7	0
21	Transparent and mechanically reconfigurable small antenna based on stretchable micromesh. , 2015, , .		1
22	Critical role of domain crystallinity, domain purity and domain interface sharpness for reduced bimolecular recombination in polymer solar cells. Nano Energy, 2015, 12, 457-467.	8.2	41
23	Improved Performance for Inverted Organic Photovoltaics via Spacer between Benzodithiophene and Benzothiazole in Polymers. Journal of Physical Chemistry C, 2015, 119, 18992-19000.	1.5	16
24	Enhanced Lifetime of Polymer Solar Cells by Surface Passivation of Metal Oxide Buffer Layers. ACS Applied Materials & Interfaces, 2015, 7, 16093-16100.	4.0	57
25	Morphological Evolution and Its Impacts on Performance of Polymer Solar Cells. IEEE Transactions on Electron Devices, 2015, 62, 1284-1290.	1.6	13
26	Hybrid-state emission in a polythienylenevinylene derivative with an electron deficient moiety. Journal of Chemical Physics, 2015, 142, 164702.	1.2	3
27	Polymer Solar Cells Processed Using Anisole as a Relatively Nontoxic Solvent. Energy Technology, 2014, 2, 269-274.	1.8	38
28	Development of Low Energy Gap and Fully Regioregular Polythienylenevinylene Derivative. Journal of Chemistry, 2014, 2014, 1-7.	0.9	1
29	Design, synthesis, and characterization of a novel câ€donorâ€ncâ€bridgeâ€câ€acceptor type block copolymer for optoelectronic applications. Journal of Polymer Science Part A, 2014, 52, 1149-1160.	2.5	10
30	Mitsunobu reactions of aliphatic alcohols and bulky phenols. Tetrahedron Letters, 2014, 55, 3090-3092.	0.7	10
31	Efficient real-time detection of terahertz pulse radiation based on photoacoustic conversion by carbon nanotube nanocomposite. Nature Photonics, 2014, 8, 537-542.	15.6	86
32	Experimental and computational studies of 4H-cyclopenta[2,1-b:3,4-bâ€²]dithiophen-4-one (CPDTO)-oligomers. Polymer, 2014, 55, 4677-4683.	1.8	2
33	An Ultrathin, Smooth, and Lowâ€Loss Alâ€Doped Ag Film and Its Application as a Transparent Electrode in Organic Photovoltaics. Advanced Materials, 2014, 26, 5696-5701.	11.1	221
34	High Performance Bianisotropic Metasurfaces: Asymmetric Transmission of Light. Physical Review Letters, 2014, 113, 023902.	2.9	317
35	Dicyano-Substituted Poly(phenylenevinylene) (DiCNâ€“PPV) and the Effect of Cyano Substitution on Photochemical Stability. Macromolecules, 2013, 46, 4247-4254.	2.2	11
36	Polymer frontier orbital and morphology engineering for nanophotonics. , 2012, , .		0

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37	Synthesis and characterization of new sulfoneâ€derivatized phenylenevinyleneâ€based conjugated copolymers with evolving energy levels and gaps. Journal of Polymer Science Part A, 2012, 50, 1197-1204.	2.5	3
38	Regioregularity and solar cell device performance of poly(3â€dodecylthienylenevinylene). Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 917-922.	2.4	3
39	Frontier orbital and morphology engineering of conjugated polymers and block copolymers for potential high efficiency photovoltaics. Solar Energy Materials and Solar Cells, 2012, 97, 150-156.	3.0	7
40	Polymeric hybrid waveguide modulators with high optical stability and high electro-optic coefficient. , 2011, , .		2
41	Poly(3-dodecylthienylenevinylene)s: Regioregularity and Crystallinity. Macromolecules, 2011, 44, 6389-6396.	2.2	30
42	Generation and Recombination Kinetics of Optical Excitations in Poly(3-dodecylthienylenevinylene) with Controlled Regioregularity. Journal of Physical Chemistry B, 2011, 115, 13139-13148.	1.2	14
43	Optimization of organic NLO materials for integration with silicon photonic, plasmonic (metal) Tj ETQq1 1 0.784314 rgBT /Overlock 1	0.8	2
44	Bioinspired self-assembly for organic elctro-optics. Proceedings of SPIE, 2010, , .	0.8	0
45	Poly(3-dodedyl-2,5-thienylenevinylene)s from the Stille coupling and the Hornerâ€“Emmons reaction. Polymer Chemistry, 2010, 1, 663.	1.9	41
46	Synthesis and energy gap studies of a series of sulfone-substituted polyphenylenevinylenes (SF-PPVs). Synthetic Metals, 2010, 160, 16-21.	2.1	14
47	Design, Synthesis, Characterization, and Modeling of a Series ofS,S-Dioxothienylenevinylene-Based Conjugated Polymers with Evolving Frontier Orbitals. Macromolecules, 2009, 42, 663-670.	2.2	29
48	The effects of gamma-ray irradiation on organic materials of different conjugation lengths. , 2009, , .		1
49	A low-energy gap and fully regioregular poly(3-Dodecyl-2,5-thienylenevinylene) for photovoltaics. , 2008, , .		3
50	Photovoltaic enhancement of organic solar cells by a bridged donor-acceptor block copolymer approach. Applied Physics Letters, 2007, 90, 043117.	1.5	97
51	Molecular morphological effects to optoelectronics. , 2007, , .		0
52	Efficient synthesis of an aldehyde-capped polythiophene containing fluorinated electron-withdrawing groups. Journal of Polymer Science Part A, 2007, 45, 41-47.	2.5	9
53	Design, Synthesis, and Characterization of a â^'Donorâ^'Bridgeâ^'Acceptorâ^'Bridge- Type Block Copolymer via Alkoxy- and Sulfone- Derivatized Poly(phenylenevinylenes). Macromolecules, 2006, 39, 4317-4326.	2.2	77
54	Morphological studies of a donor-bridge-acceptor block copolymer system. , 2006, , .		0

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55	Synthesis and characterization of a new acceptor (n-type) fluorinated and terminal-functionalized polythiophene. Journal of Polymer Science Part A, 2005, 43, 4280-4287.	2.5	23
56	Combined electromagnetic and photoreaction modeling of CLD-1 photobleaching in polymer microring resonators. Applied Physics Letters, 2005, 87, 071108.	1.5	8
57	Organic electro-optic materials: some unique opportunities. , 2004, , .		7
58	Investigation of Polymers and Marine-Derived DNA in Optoelectronicsâ€. Journal of Physical Chemistry B, 2004, 108, 8584-8591.	1.2	113
59	Fabrication and Replication of Polymer Integrated Optical Devices Using Electron-Beam Lithography and Soft Lithographyâ€. Journal of Physical Chemistry B, 2004, 108, 8606-8613.	1.2	115
60	Wide-range tuning of polymer microring resonators by the photobleaching of CLD-1 chromophores. Optics Letters, 2004, 29, 2584.	1.7	35
61	Flexible low-voltage electro-optic polymer modulators. Applied Physics Letters, 2003, 82, 4432-4434.	1.5	81
62	Integration of electro-optic polymer modulators with low-loss fluorinated polymer waveguides. Optics Letters, 2002, 27, 2109.	1.7	31
63	Polymer micro-ring filters and modulators. Journal of Lightwave Technology, 2002, 20, 1968-1975.	2.7	476
64	Low-loss interconnection between electrooptic and passive polymer waveguides with a vertical taper. IEEE Photonics Technology Letters, 2002, 14, 1121-1123.	1.3	26
65	Low Vï€ Electrooptic Modulators from CLD-1:â€‰ Chromophore Design and Synthesis, Material Processing, and Characterization. Chemistry of Materials, 2001, 13, 3043-3050.	3.2	270
66	Recent advances in electrooptic polymer modulators incorporating highly nonlinear chromophore. IEEE Journal of Selected Topics in Quantum Electronics, 2001, 7, 826-835.	1.9	147
67	Pushâ€“pull electro-optic polymer modulators with low half-wave voltage and low loss at both 1310 and 1550 nm. Applied Physics Letters, 2001, 78, 3136-3138.	1.5	89
68	Progress toward Device-Quality Second-Order Nonlinear Optical Materials. 4. A Trilink High Î¼Î² NLO Chromophore in Thermoset Polyurethane:â€‰ A â€œGuestâ€'Hostâ€•Approach to Larger Electrooptic Coefficients. Macromolecules, 2001, 34, 253-261.	2.2	89
69	Synthesis and characterization of main-chain NLO oligomers and polymer that contain 4-dialkylamino-4?-(alkylsulfonyl)azobenzene chromophores. Journal of Polymer Science Part A, 2000, 38, 546-559.	2.5	13
70	Electro-optic polymer modulators for 1.55 Î¼m wavelength using phenyltetraene bridged chromophore in polycarbonate. Applied Physics Letters, 2000, 76, 3525-3527.	1.5	71
71	Electro-optic polymer modulators with 0.8 V half-wave voltage. Applied Physics Letters, 2000, 77, 1-3.	1.5	140
72	A Facile Synthesis of 5-N, N-Bis(2-Hydroxyethyl)Amino-2-Thiophenecarboxaldehyde. Synthetic Communications, 2000, 30, 1359-1364.	1.1	6

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73	Low (Sub-1-Volt) Halfwave Voltage Polymeric Electro-optic Modulators Achieved by Controlling Chromophore Shape. Science, 2000, 288, 119-122.	6.0	920
74	Synthesis and Characterization of Sterically Stabilized Second-Order Nonlinear Optical Chromophores. Chemistry of Materials, 1999, 11, 1966-1968.	3.2	65
75	Synthesis and characterisation of 1,3-bis(dicyanomethylidene)indane (BDMI)-based nonlinear optical polymers. Polymer, 1998, 39, 4977-4981.	1.8	14
76	Integrated WDM polymer modulator. , 0, , .		7