

# Ming Wang

## List of Publications by Year in descending order

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77  
papers

6,389  
citations

87888

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79698

73  
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78  
all docs

78  
docs citations

78  
times ranked

7209  
citing authors

#	ARTICLE	IF	CITATIONS
1	Low Voltage Loss Organic Solar Cells Light the Way for Efficient Semitransparent Photovoltaics. Solar Rrl, 2022, 6, .	5.8	3
2	Cavity-Enhanced Near-Infrared Organic Photodetectors Based on a Conjugated Polymer Containing [1,2,5]Selenadiazolo[3,4- <i>c</i> ]Pyridine. Chemistry of Materials, 2021, 33, 5147-5155.	6.7	29
3	Design and synthesis of two conjugated semiconductors containing quinoidal cyclopentadithiophene core. Dyes and Pigments, 2021, 190, 109336.	3.7	5
4	Improving the field-effect transistor performance of (E)-1,2-di(thiophen-2-yl)ethenyl-co-naphthalenyl-based polymers by introducing alkoxy sidechains. Synthetic Metals, 2021, 278, 116801.	3.9	1
5	Multiwavelength Photodetectors Based on an Azobenzene Polymeric Ionic Liquid. ACS Applied Polymer Materials, 2021, 3, 5125-5133.	4.4	2
6	Improving the fill factor of N2200-based all polymer solar cells by introducing EPPDI as a solid additive. Organic Electronics, 2021, 99, 106319.	2.6	6
7	Improving the all-polymer solar cell performance by adding a narrow bandgap polymer as the second donor. RSC Advances, 2020, 10, 38344-38350.	3.6	7
8	Robust Unipolar Electron Conduction Using an Ambipolar Polymer Semiconductor with Solution-Processable Blends. Chemistry of Materials, 2020, 32, 6831-6837.	6.7	2
9	Doping High-Mobility Donor-Acceptor Copolymer Semiconductors with an Organic Salt for High-Performance Thermoelectric Materials. Advanced Electronic Materials, 2020, 6, 1900945.	5.1	30
10	Simultaneously Improved Efficiency and Stability in All-Polymer Solar Cells by a P-N Architecture. ACS Energy Letters, 2019, 4, 2277-2286.	17.4	127
11	Towards understanding the doping mechanism of organic semiconductors by Lewis acids. Nature Materials, 2019, 18, 1327-1334.	27.5	144
12	Quantifying and Understanding Voltage Losses Due to Nonradiative Recombination in Bulk Heterojunction Organic Solar Cells with Low Energetic Offsets. Advanced Energy Materials, 2019, 9, 1901077.	19.5	69
13	Rational Design of a Narrow-Bandgap Conjugated Polymer Using the Quinoidal Thieno[3,2- <i>b</i> ]thiophene-Based Building Block for Organic Field-Effect Transistor Applications. Macromolecules, 2019, 52, 4749-4756.	4.8	41
14	High-k Fluoropolymer Gate Dielectric in Electrically Stable Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2019, 11, 15821-15828.	8.0	23
15	Understanding the Selection Mechanism of the Polymer Wrapping Technique toward Semiconducting Carbon Nanotubes. Small Methods, 2018, 2, 1700335.	8.6	17
16	Electrical Double-Layer Nonideality in Organic Field-Effect Transistors. Advanced Functional Materials, 2018, 28, 1707221.	14.9	54
17	Doping Polymer Semiconductors by Organic Salts: Toward High-Performance Solution-Processed Organic Field-Effect Transistors. ACS Nano, 2018, 12, 3938-3946.	14.6	52
18	Toward High Efficiency Polymer Solar Cells: Rearranging the Backbone Units into a Readily Accessible Random Tetrapolymer. Advanced Energy Materials, 2018, 8, 1701668.	19.5	32

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19	Charge Generation and Recombination in an Organic Solar Cell with Low Energetic Offsets. <i>Advanced Energy Materials</i> , 2018, 8, 1701073.	19.5	60
20	Solution-Processed Ion-Free Organic Ratchets with Asymmetric Contacts. <i>Advanced Materials</i> , 2018, 30, 1804794.	21.0	8
21	Acceptor Percolation Determines How Electron-Accepting Additives Modify Transport of Ambipolar Polymer Organic Field-Effect Transistors. <i>ACS Nano</i> , 2018, 12, 7134-7140.	14.6	8
22	Measuring the competition between bimolecular charge recombination and charge transport in organic solar cells under operating conditions. <i>Energy and Environmental Science</i> , 2018, 11, 3019-3032.	30.8	59
23	Ultraflexible Near-Infrared Organic Photodetectors for Conformal Photoplethysmogram Sensors. <i>Advanced Materials</i> , 2018, 30, e1802359.	21.0	171
24	Carrier-Selective Traps: A New Approach for Fabricating Circuit Elements with Ambipolar Organic Semiconductors. <i>Advanced Electronic Materials</i> , 2017, 3, 1600537.	5.1	13
25	Understanding the Device Physics in Polymer-Based Ionic Organic Ratchets. <i>Advanced Materials</i> , 2017, 29, 1606464.	21.0	12
26	Organic Semiconductors: Carrier-Selective Traps: A New Approach for Fabricating Circuit Elements with Ambipolar Organic Semiconductors ( <i>Adv. Electron. Mater.</i> 3/2017). <i>Advanced Electronic Materials</i> , 2017, 3, .	5.1	0
27	Solution-based electrical doping of semiconducting polymer films over a limited depth. <i>Nature Materials</i> , 2017, 16, 474-480.	27.5	121
28	Topological Transformation of $\pi$ -Conjugated Molecules Reduces Resistance to Crystallization. <i>Angewandte Chemie</i> , 2017, 129, 9446-9449.	2.0	6
29	Topological Transformation of $\pi$ -Conjugated Molecules Reduces Resistance to Crystallization. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9318-9321.	13.8	10
30	A Membrane-Intercalating Conjugated Oligoelectrolyte with High-Efficiency Photodynamic Antimicrobial Activity. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5031-5034.	13.8	147
31	A Membrane-Intercalating Conjugated Oligoelectrolyte with High-Efficiency Photodynamic Antimicrobial Activity. <i>Angewandte Chemie</i> , 2017, 129, 5113-5116.	2.0	27
32	Hole Mobility and Electron Injection Properties of $D\pi A$ Conjugated Copolymers with Fluorinated Phenylene Acceptor Units. <i>Advanced Materials</i> , 2017, 29, 1603830.	21.0	45
33	Plastic Deformation of Polymer Blends as a Means to Achieve Stretchable Organic Transistors. <i>Advanced Electronic Materials</i> , 2017, 3, 1600388.	5.1	39
34	Antibacterial Narrow-Band-Gap Conjugated Oligoelectrolytes with High Photothermal Conversion Efficiency. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16063-16066.	13.8	92
35	Antibacterial Narrow-Band-Gap Conjugated Oligoelectrolytes with High Photothermal Conversion Efficiency. <i>Angewandte Chemie</i> , 2017, 129, 16279-16282.	2.0	9
36	Structural variations to a donor polymer with low energy losses. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18618-18626.	10.3	12

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37	Improving Electrical Stability and Ideality in Organic Field-Effect Transistors by the Addition of Fullerenes: Understanding the Working Mechanism. <i>Advanced Functional Materials</i> , 2017, 27, 1701358.	14.9	26
38	Linear Conjugated Polymer Backbones Improve Alignment in Nanogroove-Assisted Organic Field-Effect Transistors. <i>Journal of the American Chemical Society</i> , 2017, 139, 17624-17631.	13.7	72
39	Fabricating Low-Cost Ionic-Organic Electronic Ratchets with Graphite Pencil and Adhesive Tape. <i>Advanced Electronic Materials</i> , 2016, 2, 1500344.	5.1	16
40	Harvesting the Full Potential of Photons with Organic Solar Cells. <i>Advanced Materials</i> , 2016, 28, 1482-1488.	21.0	190
41	Investigation into the Sensing Process of High-Performance H <sub>2</sub> S Sensors Based on Polymer Transistors. <i>Chemistry - A European Journal</i> , 2016, 22, 3654-3659.	3.3	37
42	Significantly Increasing the Ductility of High Performance Polymer Semiconductors through Polymer Blending. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 14037-14045.	8.0	68
43	Frontispiece: Investigation into the Sensing Process of High-Performance H <sub>2</sub> S Sensors Based on Polymer Transistors. <i>Chemistry - A European Journal</i> , 2016, 22, n/a-n/a.	3.3	0
44	Effect of chiral 2-ethylhexyl side chains on chiroptical properties of the narrow bandgap conjugated polymers PCPDTBT and PCDTPT. <i>Chemical Science</i> , 2016, 7, 5313-5321.	7.4	28
45	Influence of molecular structure on the performance of low V <sub>oc</sub> loss polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15232-15239.	10.3	15
46	Narrow bandgap conjugated polymers based on a high-mobility polymer template for visibly transparent photovoltaic devices. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17333-17343.	10.3	17
47	Semiconductor Blends: Fullerene Additives Convert Ambipolar Transport to p-Type Transport while Improving the Operational Stability of Organic Thin Film Transistors ( <i>Adv. Funct. Mater.</i> 25/2016). <i>Advanced Functional Materials</i> , 2016, 26, 4616-4616.	14.9	0
48	Limits for Recombination in a Low Energy Loss Organic Heterojunction. <i>ACS Nano</i> , 2016, 10, 10736-10744.	14.6	79
49	Fullerene Additives Convert Ambipolar Transport to p-Type Transport while Improving the Operational Stability of Organic Thin Film Transistors. <i>Advanced Functional Materials</i> , 2016, 26, 4472-4480.	14.9	38
50	Fluorine substitution influence on benzo[2,1,3]thiadiazole based polymers for field-effect transistor applications. <i>Chemical Communications</i> , 2016, 52, 3207-3210.	4.1	56
51	High Mobility Organic Field-Effect Transistors from Majority Insulator Blends. <i>Chemistry of Materials</i> , 2016, 28, 1256-1260.	6.7	75
52	Electronic structure and photovoltaic application of Bil3. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	125
53	The Density of States and the Transport Effective Mass in a Highly Oriented Semiconducting Polymer: Electronic Delocalization in 1D. <i>Advanced Materials</i> , 2015, 27, 7759-7765.	21.0	52
54	Electrical Instability Induced by Electron Trapping in Low-Bandgap Donor-Acceptor Polymer Field-Effect Transistors. <i>Advanced Materials</i> , 2015, 27, 7004-7009.	21.0	78

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55	NEXAFS Spectroscopy Reveals the Molecular Orientation in Blade-Coated Pyridal[2,1,3]thiadiazole-Containing Conjugated Polymer Thin Films. <i>Macromolecules</i> , 2015, 48, 6606-6616.	4.8	56
56	High-Mobility Field-Effect Transistors Fabricated with Macroscopic Aligned Semiconducting Polymers. <i>Advanced Materials</i> , 2014, 26, 2993-2998.	21.0	524
57	Effect of Molecular Order on the Performance of Naphthobisthiadiazole-Based Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1301601.	19.5	22
58	High Open Circuit Voltage in Regioregular Narrow Band Gap Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2014, 136, 12576-12579.	13.7	216
59	Donor-Acceptor Type Copolymers Based on a Naphtho[1,2-c:5,6-c']bis(1,2,5-thiadiazole) Scaffold for High-Efficiency Polymer Solar Cells. <i>Chemistry - an Asian Journal</i> , 2014, 9, 2104-2112.	3.3	13
60	General Strategy for Self-Assembly of Highly Oriented Nanocrystalline Semiconducting Polymers with High Mobility. <i>Nano Letters</i> , 2014, 14, 2764-2771.	9.1	416
61	High-Performance Inverted Organic Photovoltaics with Over 1 $\mu\text{m}$ Thick Active Layers. <i>Advanced Energy Materials</i> , 2014, 4, 1400378.	19.5	83
62	[1,2,5]Thiadiazolo[3,4-f]benzotriazole based narrow band gap conjugated polymers with photocurrent response up to 1.1 $\mu\text{m}$ . <i>Organic Electronics</i> , 2013, 14, 2459-2467.	2.6	34
63	23% enhanced efficiency of polymer solar cells processed with 1-chloronaphthalene as the solvent additive. <i>Synthetic Metals</i> , 2013, 164, 1-5.	3.9	31
64	Domain Purity, Miscibility, and Molecular Orientation at Donor/Acceptor Interfaces in High Performance Organic Solar Cells: Paths to Further Improvement. <i>Advanced Energy Materials</i> , 2013, 3, 864-872.	19.5	283
65	Design and Synthesis of Copolymers of Indacenodithiophene and Naphtho[1,2-c:5,6-c']bis(1,2,5-thiadiazole) for Polymer Solar Cells. <i>Macromolecules</i> , 2013, 46, 3950-3958.	4.8	69
66	Polymer Photovoltaic Cells Based on Polymethacrylate Bearing Semiconducting Side Chains. <i>Macromolecular Rapid Communications</i> , 2012, 33, 2097-2102.	3.9	5
67	Inverted polymer solar cells with 8.4% efficiency by conjugated polyelectrolyte. <i>Energy and Environmental Science</i> , 2012, 5, 8208.	30.8	616
68	Polymer Solar Cells with a Low-Temperature-Annealed Sol-Gel-Derived MoO <sub>x</sub> Film as a Hole Extraction Layer. <i>Advanced Energy Materials</i> , 2012, 2, 523-527.	19.5	97
69	Synthesis of 2-R1-2-(4-(2-fluoroethoxy)benzamido)acetate as potential PET imaging agents. <i>Medicinal Chemistry Research</i> , 2012, 21, 944-951.	2.4	1
70	Solvent Effect Leading to High Performance of Bulk Heterojunction Polymer Solar Cells by Novel Polysilfluorene Derivatives. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2314-2319.	3.1	18
71	Donor-Acceptor Conjugated Polymer Based on Naphtho[1,2-c:5,6-c']bis[1,2,5]thiadiazole for High-Performance Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2011, 133, 9638-9641.	13.7	598
72	Synthesis of Quinoxaline-Based Donor-Acceptor Narrow-Band-Gap Polymers and Their Cyclized Derivatives for Bulk-Heterojunction Polymer Solar Cell Applications. <i>Macromolecules</i> , 2011, 44, 894-901.	4.8	127

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73	(S)-2-((S)-2-(4-(3-[ <sup>18</sup> F]fluoropropyl)benzamido)-3-phenylpropanamido)pentanedioic acid labeled with <sup>18</sup> F. Journal of Radioanalytical and Nuclear Chemistry, 2010, 286, 135-140.	1.5	0
74	Novel Silafluorene-Based Conjugated Polymers with Pendant Acceptor Groups for High Performance Solar Cells. Macromolecules, 2010, 43, 5262-5268.	4.8	134
75	Donor Polymers Containing Benzothiadiazole and Four Thiophene Rings in Their Repeating Units with Improved Photovoltaic Performance. Macromolecules, 2009, 42, 4410-4415.	4.8	150
76	An Unexpected Role of a Trace Amount of Water in Catalyzing Proton Transfer in Phosphine-Catalyzed (3 + 2) Cycloaddition of Allenates and Alkenes. Journal of the American Chemical Society, 2007, 129, 3470-3471.	13.7	427
77	A New Nano-Structured Flame-Retardant Poly(ethylene terephthalate). Journal of Macromolecular Science - Pure and Applied Chemistry, 2006, 43, 1867-1875.	2.2	10