

# Ming Wang

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/9426395/ming-wang-publications-by-year.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74  
papers

5,515  
citations

35  
h-index

74  
g-index

78  
ext. papers

5,967  
ext. citations

12.6  
avg, IF

5.5  
L-index

#	Paper	IF	Citations
74	Cavity-Enhanced Near-Infrared Organic Photodetectors Based on a Conjugated Polymer Containing [1,2,5]Selenadiazolo[3,4-c]Pyridine. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 5147-5155	9.6	5
73	Design and synthesis of two conjugated semiconductors containing quinoidal cyclopentadithiophene core. <i>Dyes and Pigments</i> , <b>2021</b> , 190, 109336	4.6	4
72	Improving the field-effect transistor performance of (E)-1,2-di(thiophen-2-yl)ethenyl-co-naphthalenyl-based polymers by introducing alkoxy sidechains. <i>Synthetic Metals</i> , <b>2021</b> , 278, 116801	3.6	1
71	Improving the fill factor of N2200-based all polymer solar cells by introducing EPPDI as a solid additive. <i>Organic Electronics</i> , <b>2021</b> , 99, 106319	3.5	2
70	Robust Unipolar Electron Conduction Using an Ambipolar Polymer Semiconductor with Solution-Processable Blends. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 6831-6837	9.6	2
69	Doping High-Mobility Donor-Acceptor Copolymer Semiconductors with an Organic Salt for High-Performance Thermoelectric Materials. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 1900945	6.4	22
68	Improving the all-polymer solar cell performance by adding a narrow bandgap polymer as the second donor.. <i>RSC Advances</i> , <b>2020</b> , 10, 38344-38350	3.7	3
67	Towards understanding the doping mechanism of organic semiconductors by Lewis acids. <i>Nature Materials</i> , <b>2019</b> , 18, 1327-1334	27	85
66	Quantifying and Understanding Voltage Losses Due to Nonradiative Recombination in Bulk Heterojunction Organic Solar Cells with Low Energetic Offsets. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901077	21.8	47
65	Rational Design of a Narrow-Bandgap Conjugated Polymer Using the Quinoidal Thieno[3,2-b]thiophene-Based Building Block for Organic Field-Effect Transistor Applications. <i>Macromolecules</i> , <b>2019</b> , 52, 4749-4756	5.5	28
64	High-k Fluoropolymer Gate Dielectric in Electrically Stable Organic Field-Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 15821-15828	9.5	19
63	Simultaneously Improved Efficiency and Stability in All-Polymer Solar Cells by a PIN Architecture. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 2277-2286	20.1	89
62	Understanding the Selection Mechanism of the Polymer Wrapping Technique toward Semiconducting Carbon Nanotubes. <i>Small Methods</i> , <b>2018</b> , 2, 1700335	12.8	12
61	Electrical Double-Slope Nonideality in Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1707221	15.6	45
60	Doping Polymer Semiconductors by Organic Salts: Toward High-Performance Solution-Processed Organic Field-Effect Transistors. <i>ACS Nano</i> , <b>2018</b> , 12, 3938-3946	16.7	40
59	Toward High Efficiency Polymer Solar Cells: Rearranging the Backbone Units into a Readily Accessible Random Tetrapolymer. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701668	21.8	18
58	Charge Generation and Recombination in an Organic Solar Cell with Low Energetic Offsets. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701073	21.8	49

57	Measuring the competition between bimolecular charge recombination and charge transport in organic solar cells under operating conditions. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 3019-3032	35.4	45
56	Ultraflexible Near-Infrared Organic Photodetectors for Conformal Photoplethysmogram Sensors. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802359	24	111
55	Solution-Processed Ion-Free Organic Ratchets with Asymmetric Contacts. <i>Advanced Materials</i> , <b>2018</b> , 30, e1804794	24	8
54	Acceptor Percolation Determines How Electron-Accepting Additives Modify Transport of Ambipolar Polymer Organic Field-Effect Transistors. <i>ACS Nano</i> , <b>2018</b> , 12, 7134-7140	16.7	7
53	Carrier-Selective Traps: A New Approach for Fabricating Circuit Elements with Ambipolar Organic Semiconductors. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1600537	6.4	12
52	Understanding the Device Physics in Polymer-Based Ionic-Organic Ratchets. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606464	24	11
51	Solution-based electrical doping of semiconducting polymer films over a limited depth. <i>Nature Materials</i> , <b>2017</b> , 16, 474-480	27	95
50	Topological Transformation of $\pi$ -Conjugated Molecules Reduces Resistance to Crystallization. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 9446-9449	3.6	6
49	Topological Transformation of $\pi$ -Conjugated Molecules Reduces Resistance to Crystallization. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 9318-9321	16.4	10
48	A Membrane-Intercalating Conjugated Oligoelectrolyte with High-Efficiency Photodynamic Antimicrobial Activity. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 5031-5034	16.4	110
47	A Membrane-Intercalating Conjugated Oligoelectrolyte with High-Efficiency Photodynamic Antimicrobial Activity. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 5113-5116	3.6	26
46	Hole Mobility and Electron Injection Properties of D-A Conjugated Copolymers with Fluorinated Phenylene Acceptor Units. <i>Advanced Materials</i> , <b>2017</b> , 29, 1603830	24	40
45	Reversible Plastic Deformation of Polymer Blends as a Means to Achieve Stretchable Organic Transistors. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1600388	6.4	32
44	Antibacterial Narrow-Band-Gap Conjugated Oligoelectrolytes with High Photothermal Conversion Efficiency. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 16063-16066	16.4	63
43	Antibacterial Narrow-Band-Gap Conjugated Oligoelectrolytes with High Photothermal Conversion Efficiency. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 16279-16282	3.6	8
42	Structural variations to a donor polymer with low energy losses. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 18618-18626	13	11
41	Improving Electrical Stability and Ideality in Organic Field-Effect Transistors by the Addition of Fullerenes: Understanding the Working Mechanism. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701358	15.6	20
40	Linear Conjugated Polymer Backbones Improve Alignment in Nanogroove-Assisted Organic Field-Effect Transistors. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 17624-17631	16.4	52

39	Semiconductor Blends: Fullerene Additives Convert Ambipolar Transport to p-Type Transport while Improving the Operational Stability of Organic Thin Film Transistors (Adv. Funct. Mater. 25/2016). <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 4616-4616	15.6	
38	Limits for Recombination in a Low Energy Loss Organic Heterojunction. <i>ACS Nano</i> , <b>2016</b> , 10, 10736-10744	46.7	64
37	Fullerene Additives Convert Ambipolar Transport to p-Type Transport while Improving the Operational Stability of Organic Thin Film Transistors. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 4472-4480	15.6	31
36	Fluorine substitution influence on benzo[2,1,3]thiadiazole based polymers for field-effect transistor applications. <i>Chemical Communications</i> , <b>2016</b> , 52, 3207-10	5.8	48
35	High Mobility Organic Field-Effect Transistors from Majority Insulator Blends. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 1256-1260	9.6	66
34	Fabricating Low-Cost Ionic-Organic Electronic Ratchets with Graphite Pencil and Adhesive Tape. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1500344	6.4	14
33	Harvesting the Full Potential of Photons with Organic Solar Cells. <i>Advanced Materials</i> , <b>2016</b> , 28, 1482-8	24	177
32	Investigation into the Sensing Process of High-Performance H <sub>2</sub> S Sensors Based on Polymer Transistors. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 3654-9	4.8	29
31	Significantly Increasing the Ductility of High Performance Polymer Semiconductors through Polymer Blending. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 14037-45	9.5	50
30	Effect of chiral 2-ethylhexyl side chains on chiroptical properties of the narrow bandgap conjugated polymers PCPDTBT and PCDTPT. <i>Chemical Science</i> , <b>2016</b> , 7, 5313-5321	9.4	24
29	Influence of molecular structure on the performance of low Voc loss polymer solar cells. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 15232-15239	13	12
28	Narrow bandgap conjugated polymers based on a high-mobility polymer template for visibly transparent photovoltaic devices. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 17333-17343	13	15
27	NEXAFS Spectroscopy Reveals the Molecular Orientation in Blade-Coated Pyridal[2,1,3]thiadiazole-Containing Conjugated Polymer Thin Films. <i>Macromolecules</i> , <b>2015</b> , 48, 6606-6616	5.5	50
26	Electronic structure and photovoltaic application of BiI <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2015</b> , 107, 131109	3.4	106
25	The Density of States and the Transport Effective Mass in a Highly Oriented Semiconducting Polymer: Electronic Delocalization in 1D. <i>Advanced Materials</i> , <b>2015</b> , 27, 7759-65	24	46
24	Electrical Instability Induced by Electron Trapping in Low-Bandgap Donor-Acceptor Polymer Field-Effect Transistors. <i>Advanced Materials</i> , <b>2015</b> , 27, 7004-9	24	65
23	High-mobility field-effect transistors fabricated with macroscopic aligned semiconducting polymers. <i>Advanced Materials</i> , <b>2014</b> , 26, 2993-8	24	481
22	Effect of Molecular Order on the Performance of Naphthobisthiadiazole-Based Polymer Solar Cells. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301601	21.8	21

21	High open circuit voltage in regioregular narrow band gap polymer solar cells. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 12576-9	16.4	200
20	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> , <b>2014</b> , 9, 2104-12	4.5	11
19	General strategy for self-assembly of highly oriented nanocrystalline semiconducting polymers with high mobility. <i>Nano Letters</i> , <b>2014</b> , 14, 2764-71	11.5	372
18	High-Performance Inverted Organic Photovoltaics with Over 1- $\mu$ m Thick Active Layers. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1400378	21.8	76
17	[1,2,5]Thiadiazolo[3,4-f]benzotriazole based narrow band gap conjugated polymers with photocurrent response up to 1.1 $\mu$ s. <i>Organic Electronics</i> , <b>2013</b> , 14, 2459-2467	3.5	26
16	23% enhanced efficiency of polymer solar cells processed with 1-chloronaphthalene as the solvent additive. <i>Synthetic Metals</i> , <b>2013</b> , 164, 1-5	3.6	30
15	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> , <b>2013</b> , 3, 864-872	21.8	256
14	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> , <b>2013</b> , 46, 3950-3958	5.5	65
13	Polymer Photovoltaic Cells Based on Polymethacrylate Bearing Semiconducting Side Chains. <i>Macromolecular Rapid Communications</i> , <b>2012</b> , 33, 2097-102	4.8	5
12	Inverted polymer solar cells with 8.4% efficiency by conjugated polyelectrolyte. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 8208	35.4	576
11	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> , <b>2012</b> , 2, 523-527	21.8	90
10	Synthesis of 2-R1-2-(4-(2-fluoroethoxy)benzamido)acetate as potential PET imaging agents. <i>Medicinal Chemistry Research</i> , <b>2012</b> , 21, 944-951	2.2	1
9	Solvent Effect Leading to High Performance of Bulk Heterojunction Polymer Solar Cells by Novel Polysilafluorene Derivatives. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 2314-2319	3.8	17
8	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> , <b>2011</b> , 133, 9638-41	16.4	554
7	Synthesis of Quinoxaline-Based Donor-Acceptor Narrow-Band-Gap Polymers and Their Cyclized Derivatives for Bulk-Heterojunction Polymer Solar Cell Applications. <i>Macromolecules</i> , <b>2011</b> , 44, 894-901	5.5	123
6	Novel Silafluorene-Based Conjugated Polymers with Pendant Acceptor Groups for High Performance Solar Cells. <i>Macromolecules</i> , <b>2010</b> , 43, 5262-5268	5.5	125
5	(S)-2-((S)-2-(4-(3-[ <sup>18</sup> F]fluoropropyl)benzamido)-3-phenylpropanamido)pentanedioic acid labeled with <sup>18</sup> F. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2010</b> , 286, 135-140	1.5	
4	Donor Polymers Containing Benzothiadiazole and Four Thiophene Rings in Their Repeating Units with Improved Photovoltaic Performance. <i>Macromolecules</i> , <b>2009</b> , 42, 4410-4415	5.5	146

- 3 An unexpected role of a trace amount of water in catalyzing proton transfer in phosphine-catalyzed (3 + 2) cycloaddition of allenoates and alkenes. *Journal of the American Chemical Society*, **2007**, 129, 3470-3474 392
- 2 A New Nano-Structured Flame-Retardant Poly(ethylene terephthalate). *Journal of Macromolecular Science - Pure and Applied Chemistry*, **2006**, 43, 1867-1875 2.2 10
- 1 Low Voltage-Loss Organic Solar Cells Light the Way for Efficient Semitransparent Photovoltaics. *Solar Rrl*, 2200135 7.1 2