

Ming Wang

List of Publications by Citations

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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	Inverted polymer solar cells with 8.4% efficiency by conjugated polyelectrolyte. <i>Energy and Environmental Science</i> , 2012 , 5, 8208	35.4	576
73	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, 9638-41	16.4	554
72	High-mobility field-effect transistors fabricated with macroscopic aligned semiconducting polymers. <i>Advanced Materials</i> , 2014 , 26, 2993-8	24	481
71	An unexpected role of a trace amount of water in catalyzing proton transfer in phosphine-catalyzed (3 + 2) cycloaddition of allenates and alkenes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 3470-1	16.4	392
70	General strategy for self-assembly of highly oriented nanocrystalline semiconducting polymers with high mobility. <i>Nano Letters</i> , 2014 , 14, 2764-71	11.5	372
69	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	21.8	256
68	High open circuit voltage in regioregular narrow band gap polymer solar cells. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12576-9	16.4	200
67	Harvesting the Full Potential of Photons with Organic Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 1482-8	24	177
66	Donor Polymers Containing Benzothiadiazole and Four Thiophene Rings in Their Repeating Units with Improved Photovoltaic Performance. <i>Macromolecules</i> , 2009 , 42, 4410-4415	5.5	146
65	Novel Silafluorene-Based Conjugated Polymers with Pendant Acceptor Groups for High Performance Solar Cells. <i>Macromolecules</i> , 2010 , 43, 5262-5268	5.5	125
64	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	5.5	123
63	Ultraflexible Near-Infrared Organic Photodetectors for Conformal Photoplethysmogram Sensors. <i>Advanced Materials</i> , 2018 , 30, e1802359	24	111
62	A Membrane-Intercalating Conjugated Oligoelectrolyte with High-Efficiency Photodynamic Antimicrobial Activity. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5031-5034	16.4	110
61	Electronic structure and photovoltaic application of BiI ₃ . <i>Applied Physics Letters</i> , 2015 , 107, 131109	3.4	106
60	Solution-based electrical doping of semiconducting polymer films over a limited depth. <i>Nature Materials</i> , 2017 , 16, 474-480	27	95
59	Polymer Solar Cells with a Low-Temperature-Annealed Sol-Gel-Derived MoO _x Film as a Hole Extraction Layer. <i>Advanced Energy Materials</i> , 2012 , 2, 523-527	21.8	90
58	Simultaneously Improved Efficiency and Stability in All-Polymer Solar Cells by a PIN Architecture. <i>ACS Energy Letters</i> , 2019 , 4, 2277-2286	20.1	89

57	Towards understanding the doping mechanism of organic semiconductors by Lewis acids. <i>Nature Materials</i> , 2019 , 18, 1327-1334	27	85
56	High-Performance Inverted Organic Photovoltaics with Over 1- μ m Thick Active Layers. <i>Advanced Energy Materials</i> , 2014 , 4, 1400378	21.8	76
55	High Mobility Organic Field-Effect Transistors from Majority Insulator Blends. <i>Chemistry of Materials</i> , 2016 , 28, 1256-1260	9.6	66
54	Electrical Instability Induced by Electron Trapping in Low-Bandgap Donor-Acceptor Polymer Field-Effect Transistors. <i>Advanced Materials</i> , 2015 , 27, 7004-9	24	65
53	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	5.5	65
52	Limits for Recombination in a Low Energy Loss Organic Heterojunction. <i>ACS Nano</i> , 2016 , 10, 10736-10744	46.7	64
51	Antibacterial Narrow-Band-Gap Conjugated Oligoelectrolytes with High Photothermal Conversion Efficiency. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 16063-16066	16.4	63
50	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	16.4	52
49	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	5.5	50
48	Significantly Increasing the Ductility of High Performance Polymer Semiconductors through Polymer Blending. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 14037-45	9.5	50
47	Charge Generation and Recombination in an Organic Solar Cell with Low Energetic Offsets. <i>Advanced Energy Materials</i> , 2018 , 8, 1701073	21.8	49
46	Fluorine substitution influence on benzo[2,1,3]thiadiazole based polymers for field-effect transistor applications. <i>Chemical Communications</i> , 2016 , 52, 3207-10	5.8	48
45	Quantifying and Understanding Voltage Losses Due to Nonradiative Recombination in Bulk Heterojunction Organic Solar Cells with Low Energetic Offsets. <i>Advanced Energy Materials</i> , 2019 , 9, 1901077	21.8	47
44	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, 7759-65	24	46
43	Electrical Double-Slope Nonideality in Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2018 , 28, 1707221	15.6	45
42	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	35.4	45
41	Hole Mobility and Electron Injection Properties of D-A Conjugated Copolymers with Fluorinated Phenylene Acceptor Units. <i>Advanced Materials</i> , 2017 , 29, 1603830	24	40
40	Doping Polymer Semiconductors by Organic Salts: Toward High-Performance Solution-Processed Organic Field-Effect Transistors. <i>ACS Nano</i> , 2018 , 12, 3938-3946	16.7	40

39	Reversible Plastic Deformation of Polymer Blends as a Means to Achieve Stretchable Organic Transistors. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600388	6.4	32
38	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	15.6	31
37	23% enhanced efficiency of polymer solar cells processed with 1-chloronaphthalene as the solvent additive. <i>Synthetic Metals</i> , 2013 , 164, 1-5	3.6	30
36	Investigation into the Sensing Process of High-Performance H ₂ S Sensors Based on Polymer Transistors. <i>Chemistry - A European Journal</i> , 2016 , 22, 3654-9	4.8	29
35	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> , 2019 , 52, 4749-4756	5.5	28
34	A Membrane-Intercalating Conjugated Oligoelectrolyte with High-Efficiency Photodynamic Antimicrobial Activity. <i>Angewandte Chemie</i> , 2017 , 129, 5113-5116	3.6	26
33	[1,2,5]Thiadiazolo[3,4-f]benzotriazole based narrow band gap conjugated polymers with photocurrent response up to 1.1 μ s. <i>Organic Electronics</i> , 2013 , 14, 2459-2467	3.5	26
32	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	9.4	24
31	Doping High-Mobility Donor-Acceptor Copolymer Semiconductors with an Organic Salt for High-Performance Thermoelectric Materials. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900945	6.4	22
30	Effect of Molecular Order on the Performance of Naphthobisthiadiazole-Based Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1301601	21.8	21
29	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	15.6	20
28	High-k Fluoropolymer Gate Dielectric in Electrically Stable Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15821-15828	9.5	19
27	Toward High Efficiency Polymer Solar Cells: Rearranging the Backbone Units into a Readily Accessible Random Tetrapolymer. <i>Advanced Energy Materials</i> , 2018 , 8, 1701668	21.8	18
26	Solvent Effect Leading to High Performance of Bulk Heterojunction Polymer Solar Cells by Novel Polysilafluorene Derivatives. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 2314-2319	3.8	17
25	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	13	15
24	Fabricating Low-Cost Ionic-Organic Electronic Ratchets with Graphite Pencil and Adhesive Tape. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500344	6.4	14
23	Carrier-Selective Traps: A New Approach for Fabricating Circuit Elements with Ambipolar Organic Semiconductors. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600537	6.4	12
22	Understanding the Selection Mechanism of the Polymer Wrapping Technique toward Semiconducting Carbon Nanotubes. <i>Small Methods</i> , 2018 , 2, 1700335	12.8	12

21	Influence of molecular structure on the performance of low Voc loss polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15232-15239	13	12
20	Understanding the Device Physics in Polymer-Based Ionic-Organic Ratchets. <i>Advanced Materials</i> , 2017 , 29, 1606464	24	11
19	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, 2104-12	4.5	11
18	Structural variations to a donor polymer with low energy losses. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18618-18626	13	11
17	Topological Transformation of π Conjugated Molecules Reduces Resistance to Crystallization. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 9318-9321	16.4	10
16	A New Nano-Structured Flame-Retardant Poly(ethylene terephthalate). <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2006 , 43, 1867-1875	2.2	10
15	Antibacterial Narrow-Band-Gap Conjugated Oligoelectrolytes with High Photothermal Conversion Efficiency. <i>Angewandte Chemie</i> , 2017 , 129, 16279-16282	3.6	8
14	Solution-Processed Ion-Free Organic Ratchets with Asymmetric Contacts. <i>Advanced Materials</i> , 2018 , 30, e1804794	24	8
13	Acceptor Percolation Determines How Electron-Accepting Additives Modify Transport of Ambipolar Polymer Organic Field-Effect Transistors. <i>ACS Nano</i> , 2018 , 12, 7134-7140	16.7	7
12	Topological Transformation of π Conjugated Molecules Reduces Resistance to Crystallization. <i>Angewandte Chemie</i> , 2017 , 129, 9446-9449	3.6	6
11	Polymer Photovoltaic Cells Based on Polymethacrylate Bearing Semiconducting Side Chains. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 2097-102	4.8	5
10	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> , 2021 , 33, 5147-5155	9.6	5
9	Design and synthesis of two conjugated semiconductors containing quinoidal cyclopentadithiophene core. <i>Dyes and Pigments</i> , 2021 , 190, 109336	4.6	4
8	Improving the all-polymer solar cell performance by adding a narrow bandgap polymer as the second donor.. <i>RSC Advances</i> , 2020 , 10, 38344-38350	3.7	3
7	Robust Unipolar Electron Conduction Using an Ambipolar Polymer Semiconductor with Solution-Processable Blends. <i>Chemistry of Materials</i> , 2020 , 32, 6831-6837	9.6	2
6	Improving the fill factor of N2200-based all polymer solar cells by introducing EPPDI as a solid additive. <i>Organic Electronics</i> , 2021 , 99, 106319	3.5	2
5	Low Voltage-Loss Organic Solar Cells Light the Way for Efficient Semitransparent Photovoltaics. <i>Solar Rrl</i> , 2200135	7.1	2
4	Synthesis of 2-R1-2-(4-(2-fluoroethoxy)benzamido)acetate as potential PET imaging agents. <i>Medicinal Chemistry Research</i> , 2012 , 21, 944-951	2.2	1

3	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> , 2021 , 278, 116801	3.6	1
2	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> , 2016 , 26, 4616-4616	15.6	
1	(S)-2-((S)-2-(4-(3-[¹⁸ F]fluoropropyl)benzamido)-3-phenylpropanamido)pentanedioic acid labeled with ¹⁸ F. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2010 , 286, 135-140	1.5	