

# Michael J Ford

## 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.

50  
papers

1,615  
citations

24  
h-index

39  
g-index

53  
ext. papers

1,968  
ext. citations

11.3  
avg, IF

5.21  
L-index

#	Paper	IF	Citations
50	Thermally Stable All-Polymer Solar Cells with High Tolerance on Blend Ratios. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800029	21.8	134
49	A multifunctional shape-morphing elastomer with liquid metal inclusions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 21438-21444	11.5	120
48	Improved All-Polymer Solar Cell Performance by Using Matched Polymer Acceptor. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 5669-5678	15.6	98
47	Bandgap Narrowing in Non-Fullerene Acceptors: Single Atom Substitution Leads to High Optoelectronic Response Beyond 1000 nm. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801212	21.8	86
46	An electrically conductive silver-polyacrylamide-gelatin hydrogel composite for soft electronics. <i>Nature Electronics</i> , <b>2021</b> , 4, 185-192	28.4	80
45	Comparing the device physics, dynamics and morphology of polymer solar cells employing conventional PCBM and non-fullerene polymer acceptor N2200. <i>Nano Energy</i> , <b>2017</b> , 35, 251-262	17.1	72
44	Packing dependent electronic coupling in single poly(3-hexylthiophene) H- and J-aggregate nanofibers. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 4478-87	3.4	67
43	High Mobility Organic Field-Effect Transistors from Majority Insulator Blends. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 1256-1260	9.6	66
42	Toward Thermal Stable and High Photovoltaic Efficiency Ternary Conjugated Copolymers: Influence of Backbone Fluorination and Regioselectivity. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 1758-1768	9.6	55
41	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
40	Improved Tandem All-Polymer Solar Cells Performance by Using Spectrally Matched Subcells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703291	21.8	49
39	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
38	Electrical Double-Slope Nonideality in Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1707221	15.6	45
37	4D-Printable Liquid Metal-Liquid Crystal Elastomer Composites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 12805-12813	9.5	42
36	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
35	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
34	Controlled Assembly of Liquid Metal Inclusions as a General Approach for Multifunctional Composites. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002929	24	40

33	Soft actuators using liquid crystal elastomers with encapsulated liquid metal joule heaters. <i>Multifunctional Materials</i> , <b>2020</b> , 3, 025003	5.2	32
32	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
31	Formation and Structure of Lyotropic Liquid Crystalline Mesophases in Donor-Acceptor Semiconducting Polymers. <i>Macromolecules</i> , <b>2016</b> , 49, 7220-7229	5.5	28
30	Ultrastretchable, Wearable Triboelectric Nanogenerator Based on Sedimented Liquid Metal Elastomer Composite. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 2000754	6.8	27
29	Effects of Side Chain Branch Point on Self Assembly, Structure, and Electronic Properties of High Mobility Semiconducting Polymers. <i>Macromolecules</i> , <b>2018</b> , 51, 8597-8604	5.5	26
28	Shape memory materials for electrically-powered soft machines. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 4539-4551	7.3	24
27	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
26	Molecular Considerations for Mesophase Interaction and Alignment of Lyotropic Liquid Crystalline Semiconducting Polymers. <i>ACS Macro Letters</i> , <b>2017</b> , 6, 619-624	6.6	21
25	Size of liquid metal particles influences actuation properties of a liquid crystal elastomer composite. <i>Soft Matter</i> , <b>2020</b> , 16, 5878-5885	3.6	21
24	Soft Magnetic Tactile Skin for Continuous Force and Location Estimation Using Neural Networks. <i>IEEE Robotics and Automation Letters</i> , <b>2020</b> , 5, 3892-3898	4.2	21
23	Network topologies dictate electromechanical coupling in liquid metal-elastomer composites. <i>Soft Matter</i> , <b>2020</b> , 16, 8818-8825	3.6	21
22	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
21	Design of narrow bandgap non-fullerene acceptors for photovoltaic applications and investigation of non-geminate recombination dynamics. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 15175-15182	7.1	19
20	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
19	Electrical Performance of a Molecular Organic Semiconductor under Thermal Stress. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605511	24	16
18	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
17	Balance Between Light Absorption and Recombination Losses in Solution-Processed Small Molecule Solar Cells with Normal or Inverted Structures. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801807	21.8	15
16	End-Group-Mediated Aggregation of Poly(3-hexylthiophene). <i>Macromolecules</i> , <b>2015</b> , 48, 6224-6232	5.5	14

15	Silver-Coated Poly(dimethylsiloxane) Beads for Soft, Stretchable, and Thermally Stable Conductive Elastomer Composites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 42561-42570	9.5	13
14	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
13	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
12	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
11	Film morphology of solution-processed regioregular ternary conjugated polymer solar cells under processing additive stress. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 8903-8908	13	8
10	Expert assessments of the state of U.S. advanced fission innovation. <i>Energy Policy</i> , <b>2017</b> , 108, 194-200	7.2	7
9	Evaluating the Cost, Safety, and Proliferation Risks of Small Floating Nuclear Reactors. <i>Risk Analysis</i> , <b>2017</b> , 37, 2191-2211	3.9	7
8	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
7	Dual structure modifications to realize efficient polymer solar cells with low fullerene content. <i>Organic Electronics</i> , <b>2016</b> , 32, 187-194	3.5	6
6	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
5	3D Printing of Transparent Silicone Elastomers. <i>Advanced Materials Technologies</i> , 2100974	6.8	0
4	Composites of functional polymers: Toward physical intelligence using flexible and soft materials. <i>Journal of Materials Research</i> , 1	2.5	0
3	Pulse-shape discrimination in water-based scintillators. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2022</b> , 166854	1.2	0
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> , <b>2016</b> , 26, 4616-4616	15.6	
1	Plastic Scintillators via Rapid Photoinitiated Cationic Polymerization of Vinyltoluene. <i>ACS Applied Polymer Materials</i> ,	4.3	