Peter Zalar

List of Publications by Citations

35 papers	3,216 citations	21 h-index	39 g-index
39 ext. papers	3,535 ext. citations	13.8 avg, IF	4.89 L-index

#	Paper	IF	Citations
35	Nanoscale Phase Separation and High Photovoltaic Efficiency in Solution-Processed, Small-Molecule Bulk Heterojunction Solar Cells. *Advanced Functional Materials*, **2009**, 19, 3063-3069	15.6	841
34	Ultraflexible organic photonic skin. *Science Advances*, **2016**, 2, e1501856	14.3	612
33	Printable elastic conductors by in situ formation of silver nanoparticles from silver flakes. *Nature Materials*, **2017**, 16, 834-840	27	416
32	Regioregular pyridal[2,1,3]thiadiazole π-conjugated copolymers. *Journal of the American Chemical Society*, **2011**, 133, 18538-41	16.4	191
31	Competitive Absorption and Inefficient Exciton Harvesting: Lessons Learned from Bulk Heterojunction Organic Photovoltaics Utilizing the Polymer Acceptor P(NDI2OD-T2). *Advanced Functional Materials*, **2014**, 24, 6989-6998	15.6	120
30	Ultraflexible Near-Infrared Organic Photodetectors for Conformal Photoplethysmogram Sensors. *Advanced Materials*, **2018**, 30, e1802359	24	111
29	Optimization of energy levels by molecular design: evaluation of bis-diketopyrrolopyrrole molecular donor materials for bulk heterojunction solar cells. *Energy and Environmental Science*, **2013**, 6, 952	35.4	109
28	Color tuning in polymer light-emitting diodes with Lewis acids. *Angewandte Chemie - International Edition*, **2012**, 51, 7495-8	16.4	99
27	Controlling ion motion in polymer light-emitting diodes containing conjugated polyelectrolyte electron injection layers. *Journal of the American Chemical Society*, **2011**, 133, 2492-8	16.4	75
26	DNA electron injection interlayers for polymer light-emitting diodes. *Journal of the American Chemical Society*, **2011**, 133, 11010-3	16.4	70
25	Effect of Backbone Regioregularity on the Structure and Orientation of a Donor–Acceptor Semiconducting Copolymer. *Macromolecules*, **2014**, 47, 1403-1410	5.5	67
24	Increased mobility induced by addition of a Lewis acid to a Lewis basic conjugated polymer. *Advanced Materials*, **2014**, 26, 724-7	24	56
23	DNA interlayers enhance charge injection in organic field-effect transistors. *Advanced Materials*, **2012**, 24, 4255-60	24	56
22	Dual-gate organic phototransistor with high-gain and linear photoresponse. *Nature Communications*, **2018**, 9, 4546	17.4	44
21	Large-Area All-Printed Temperature Sensing Surfaces Using Novel Composite Thermistor Materials. *Advanced Electronic Materials*, **2019**, 5, 1800605	6.4	41
20	Effects of Processing Conditions on the Recombination Reduction in Small Molecule Bulk Heterojunction Solar Cells. *Advanced Energy Materials*, **2014**, 4, 1400438	21.8	37
19	Color Tuning in Polymer Light-Emitting Diodes with Lewis Acids. *Angewandte Chemie*, **2012**, 124, 7613-7616	3.6	32

18	A structure-property-performance investigation of perylenediimides as electron accepting materials in organic solar cells. *Physical Chemistry Chemical Physics*, **2013**, 15, 18894-9	3.6	31
17	Electron injection barrier reduction for organic light-emitting devices by quinacridone derivatives. *Chemical Communications*, **2010**, 46, 8210-2	5.8	31
16	Vacuum Ultraviolet Treatment of Self-Assembled Monolayers: A Tool for Understanding Growth and Tuning Charge Transport in Organic Field-Effect Transistors. *Advanced Materials*, **2016**, 28, 2049-54	24	29
15	Towards environmentally friendly processing of molecular semiconductors. *Journal of Materials Chemistry A*, **2013**, 1, 11117	13	25
14	Ultraflexible Transparent Oxide/Metal/Oxide Stack Electrode with Low Sheet Resistance for Electrophysiological Measurements. *ACS Applied Materials & Interfaces*, **2017**, 9, 34744-34750	9.5	21
13	All-conjugated triblock polyelectrolytes. *Advanced Materials*, **2012**, 24, 6496-501	24	20
12	A Monolithically Processed Rectifying Pixel for High-Resolution Organic Imagers. *Advanced Electronic Materials*, **2018**, 4, 1700601	6.4	15
11	Effect of Thermal Annealing on Polymer Light-Emitting Diodes Utilizing Cationic Conjugated Polyelectrolytes as Electron Injection Layers. *Journal of Physical Chemistry C*, **2010**, 114, 15786-15790	3.8	14
10	A Mechanically Durable and Flexible Organic Rectifying Diode with a Polyethylenimine Ethoxylated Cathode. *Advanced Electronic Materials*, **2016**, 2, 1600259	6.4	13
9	Low-Power Monolithically Stacked Organic Photodiode-Blocking Diode Imager by Turn-On Voltage Engineering. *Advanced Electronic Materials*, **2018**, 4, 1800311	6.4	12
8	High light intensity effects on nanoscale open-circuit voltage for three common donor materials in bulk heterojunction solar cells. *Energy and Environmental Science*, **2013**, 6, 1766	35.4	8
7	Optical and Charge Transport Properties of Water/Alcohol-Soluble Quinacridone Derivatives for Application in Polymer Light Emitting Diodes. *Journal of Physical Chemistry C*, **2011**, 115, 17533-17539	3.8	7
6	Photocurrent Amplification in Bulk Heterojunction Organic Phototransistors with Different Donor–Acceptor Ratio. *Physica Status Solidi - Rapid Research Letters*, **2018**, 12, 1700400	2.5	3
5	High Sensitivity Tuning of Work Function of Self-Assembled Monolayers Modified Electrodes Using Vacuum Ultraviolet Treatment. *ACS Applied Materials & Interfaces*, **2017**, 9, 28151-28156	9.5	3
4	Screen-Printed Dry Electrodes: Basic Characterization and Benchmarking. *Advanced Engineering Materials*, **2020**, 22, 2000714	3.5	3
3	Charge Injection Mechanism in PLEDs and Charge Transport in Conjugated Polyelectrolytes **2013**, 315-344		2
2	Charge-Carrier Recombination: Effects of Processing Conditions on the Recombination Reduction in Small Molecule Bulk Heterojunction Solar Cells (Adv. Energy Mater. 14/2014). *Advanced Energy Materials*, **2014**, 4,	21.8	1
1	Sensors: A Monolithically Processed Rectifying Pixel for High-Resolution Organic Imagers (Adv. Electron. Mater. 6/2018). *Advanced Electronic Materials*, **2018**, 4, 1870029	6.4	