

Peter Zalar

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6089538/publications.pdf>

Version: 2024-02-01

36
papers

3,931
citations

304602

22
h-index

360920

35
g-index

39
all docs

39
docs citations

39
times ranked

6325
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoscale Phase Separation and High Photovoltaic Efficiency in Solution-Processed, Small-Molecule Bulk Heterojunction Solar Cells. <i>Advanced Functional Materials</i> , 2009, 19, 3063-3069.	7.8	871
2	Ultraflexible organic photonic skin. <i>Science Advances</i> , 2016, 2, e1501856.	4.7	788
3	Printable elastic conductors by in situ formation of silver nanoparticles from silver flakes. <i>Nature Materials</i> , 2017, 16, 834-840.	13.3	578
4	Regioregular Pyridal[2,1,3]thiadiazole π -Conjugated Copolymers. <i>Journal of the American Chemical Society</i> , 2011, 133, 18538-18541.	6.6	213
5	Ultraflexible Near-Infrared Organic Photodetectors for Conformal Photoplethysmogram Sensors. <i>Advanced Materials</i> , 2018, 30, e1802359.	11.1	171
6	Competitive Absorption and Inefficient Exciton Harvesting: Lessons Learned from Bulk Heterojunction Organic Photovoltaics Utilizing the Polymer Acceptor P(NDI2OD-T2). <i>Advanced Functional Materials</i> , 2014, 24, 6989-6998.	7.8	134
7	Optimization of energy levels by molecular design: evaluation of bis-diketopyrrolopyrrole molecular donor materials for bulk heterojunction solar cells. <i>Energy and Environmental Science</i> , 2013, 6, 952.	15.6	113
8	Color Tuning in Polymer Light-Emitting Diodes with Lewis Acids. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7495-7498.	7.2	112
9	Controlling Ion Motion in Polymer Light-Emitting Diodes Containing Conjugated Polyelectrolyte Electron Injection Layers. <i>Journal of the American Chemical Society</i> , 2011, 133, 2492-2498.	6.6	79
10	Effect of Backbone Regioregularity on the Structure and Orientation of a Donor-Acceptor Semiconducting Copolymer. <i>Macromolecules</i> , 2014, 47, 1403-1410.	2.2	76
11	Dual-gate organic phototransistor with high-gain and linear photoresponse. <i>Nature Communications</i> , 2018, 9, 4546.	5.8	76
12	DNA Electron Injection Interlayers for Polymer Light-Emitting Diodes. <i>Journal of the American Chemical Society</i> , 2011, 133, 11010-11013.	6.6	74
13	Increased Mobility Induced by Addition of a Lewis Acid to a Lewis Basic Conjugated Polymer. <i>Advanced Materials</i> , 2014, 26, 724-727.	11.1	69
14	Large-Area All-Printed Temperature Sensing Surfaces Using Novel Composite Thermistor Materials. <i>Advanced Electronic Materials</i> , 2019, 5, 1800605.	2.6	68
15	DNA Interlayers Enhance Charge Injection in Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2012, 24, 4255-4260.	11.1	63
16	Effects of Processing Conditions on the Recombination Reduction in Small Molecule Bulk Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1400438.	10.2	46
17	Vacuum Ultraviolet Treatment of Self-Assembled Monolayers: A Tool for Understanding Growth and Tuning Charge Transport in Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2016, 28, 2049-2054.	11.1	35
18	Electron injection barrier reduction for organic light-emitting devices by quinacridone derivatives. <i>Chemical Communications</i> , 2010, 46, 8210.	2.2	34

#	ARTICLE	IF	CITATIONS
19	A structure-property-performance investigation of perylene diimides as electron accepting materials in organic solar cells. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18894.	1.3	32
20	Towards environmentally friendly processing of molecular semiconductors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11117.	5.2	28
21	Ultraflexible Transparent Oxide/Metal/Oxide Stack Electrode with Low Sheet Resistance for Electrophysiological Measurements. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34744-34750.	4.0	27
22	All-conjugated Triblock Polyelectrolytes. <i>Advanced Materials</i> , 2012, 24, 6496-6501.	11.1	22
23	A Monolithically Processed Rectifying Pixel for High-Resolution Organic Imagers. <i>Advanced Electronic Materials</i> , 2018, 4, 1700601.	2.6	22
24	Low-Power Monolithically Stacked Organic Photodiode-Blocking Diode Imager by Turn-On Voltage Engineering. <i>Advanced Electronic Materials</i> , 2018, 4, 1800311.	2.6	18
25	Effect of Thermal Annealing on Polymer Light-Emitting Diodes Utilizing Cationic Conjugated Polyelectrolytes as Electron Injection Layers. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15786-15790.	1.5	15
26	A Mechanically Durable and Flexible Organic Rectifying Diode with a Polyethylenimine Ethoxylated Cathode. <i>Advanced Electronic Materials</i> , 2016, 2, 1600259.	2.6	15
27	High light intensity effects on nanoscale open-circuit voltage for three common donor materials in bulk heterojunction solar cells. <i>Energy and Environmental Science</i> , 2013, 6, 1766.	15.6	10
28	Optical and Charge Transport Properties of Water/Alcohol-Soluble Quinacridone Derivatives for Application in Polymer Light Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 17533-17539.	1.5	9
29	Screen-Printed Dry Electrodes: Basic Characterization and Benchmarking. <i>Advanced Engineering Materials</i> , 2020, 22, 2000714.	1.6	8
30	High Sensitivity Tuning of Work Function of Self-Assembled Monolayers Modified Electrodes Using Vacuum Ultraviolet Treatment. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 28151-28156.	4.0	7
31	Photocurrent Amplification in Bulk Heterojunction Organic Phototransistors with Different Donor-Acceptor Ratio. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1700400.	1.2	6
32	Charge-Carrier Recombination: Effects of Processing Conditions on the Recombination Reduction in Small Molecule Bulk Heterojunction Solar Cells (Adv. Energy Mater. 14/2014). <i>Advanced Energy Materials</i> , 2014, 4, .	10.2	1
33	Sensors: A Monolithically Processed Rectifying Pixel for High-Resolution Organic Imagers (Adv.) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 1</i>	2.6	1
34	Active-Matrix IGZO Array with Printed Thermistor for Large-Area Thermal Imaging. , 2019, , .		1
35	Fully-printed stretchable pressure sensor arrays. , 2019, , .		1
36	Liquid Crystals: A Mechanically Durable and Flexible Organic Rectifying Diode with a Polyethylenimine Ethoxylated Cathode (Adv. Electron. Mater. 10/2016). <i>Advanced Electronic Materials</i> , 2016, 2, .	2.6	0