

Mark Nikolka

List of Publications by Year in descending order

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29
papers

3,952
citations

279798

23
h-index

477307

29
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all docs

29
docs citations

29
times ranked

5196
citing authors

#	ARTICLE	IF	CITATIONS
1	Approaching disorder-free transport in high-mobility conjugated polymers. <i>Nature</i> , 2014, 515, 384-388.	27.8	844
2	Charge transport in high-mobility conjugated polymers and molecular semiconductors. <i>Nature Materials</i> , 2020, 19, 491-502.	27.5	485
3	Chalcogenophene Comonomer Comparison in Small Band Gap Diketopyrrolopyrrole-Based Conjugated Polymers for High-Performing Field-Effect Transistors and Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 1314-1321.	13.7	363
4	2D coherent charge transport in highly ordered conducting polymers doped by solid state diffusion. <i>Nature Materials</i> , 2016, 15, 896-902.	27.5	346
5	High operational and environmental stability of high-mobility conjugated polymer field-effect transistors through the use of molecular additives. <i>Nature Materials</i> , 2017, 16, 356-362.	27.5	345
6	Multi-scale ordering in highly stretchable polymer semiconducting films. <i>Nature Materials</i> , 2019, 18, 594-601.	27.5	251
7	Two-Dimensional Carrier Distribution in Top-Gate Polymer Field-Effect Transistors: Correlation between Width of Density of Localized States and Urbach Energy. <i>Advanced Materials</i> , 2014, 26, 728-733.	21.0	149
8	Reducing dynamic disorder in small-molecule organic semiconductors by suppressing large-amplitude thermal motions. <i>Nature Communications</i> , 2016, 7, 10736.	12.8	147
9	An Intrinsically Stretchable High-Performance Polymer Semiconductor with Low Crystallinity. <i>Advanced Functional Materials</i> , 2019, 29, 1905340.	14.9	120
10	Modification of Indacenodithiophene-Based Polymers and Its Impact on Charge Carrier Mobility in Organic Thin-Film Transistors. <i>Journal of the American Chemical Society</i> , 2020, 142, 652-664.	13.7	101
11	High-mobility, trap-free charge transport in conjugated polymer diodes. <i>Nature Communications</i> , 2019, 10, 2122.	12.8	92
12	Dithiopheneindeno[1,2-b]fluorene (TIF) Semiconducting Polymers with Very High Mobility in Field-Effect Transistors. <i>Advanced Materials</i> , 2017, 29, 1702523.	21.0	81
13	Limits for Recombination in a Low Energy Loss Organic Heterojunction. <i>ACS Nano</i> , 2016, 10, 10736-10744.	14.6	79
14	Performance Improvements in Conjugated Polymer Devices by Removal of Water-Induced Traps. <i>Advanced Materials</i> , 2018, 30, e1801874.	21.0	69
15	Azaisoindigo conjugated polymers for high performance n-type and ambipolar thin film transistor applications. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9704-9710.	5.5	65
16	Short contacts between chains enhancing luminescence quantum yields and carrier mobilities in conjugated copolymers. <i>Nature Communications</i> , 2019, 10, 2614.	12.8	60
17	A Thieno[2,3-b]pyridine-Flanked Diketopyrrolopyrrole Polymer as an n-Type Polymer Semiconductor for All-Polymer Solar Cells and Organic Field-Effect Transistors. <i>Macromolecules</i> , 2018, 51, 71-79.	4.8	58
18	The Effect of Ring Expansion in Thienobenzo[<i>b</i>]indacenodithiophene Polymers for Organic Field-Effect Transistors. <i>Journal of the American Chemical Society</i> , 2019, 141, 18806-18813.	13.7	45

#	ARTICLE	IF	CITATIONS
19	Trap Healing for High-Performance Low-Voltage Polymer Transistors and Solution-Based Analog Amplifiers on Foil. <i>Advanced Materials</i> , 2017, 29, 1606938.	21.0	36
20	In-Situ Switching from Barrier-Limited to Ohmic Anodes for Efficient Organic Optoelectronics. <i>Advanced Functional Materials</i> , 2014, 24, 3051-3058.	14.9	33
21	Correlation of Disorder and Charge Transport in a Range of Indacenodithiophene-Based Semiconducting Polymers. <i>Advanced Electronic Materials</i> , 2018, 4, 1700410.	5.1	26
22	Low-Voltage, Dual-Gate Organic Transistors with High Sensitivity and Stability toward Electrostatic Biosensing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40581-40589.	8.0	26
23	Linking Glass-Transition Behavior to Photophysical and Charge Transport Properties of High-Mobility Conjugated Polymers. <i>Advanced Functional Materials</i> , 2021, 31, 2007359.	14.9	26
24	The effect of thiadiazole out-backbone displacement in indacenodithiophene semiconductor polymers. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8789-8795.	5.5	23
25	Decoupling Charge Transport and Electroluminescence in a High Mobility Polymer Semiconductor. <i>Advanced Materials</i> , 2016, 28, 6378-6385.	21.0	22
26	Strong performance enhancement in lead-halide perovskite solar cells through rapid, atmospheric deposition of n-type buffer layer oxides. <i>Nano Energy</i> , 2020, 75, 104946.	16.0	20
27	Naphthacenodithiophene Based Polymers—New Members of the Acenodithiophene Family Exhibiting High Mobility and Power Conversion Efficiency. <i>Advanced Functional Materials</i> , 2016, 26, 6961-6969.	14.9	19
28	The effect of the dielectric end groups on the positive bias stress stability of N2200 organic field effect transistors. <i>APL Materials</i> , 2021, 9, 041113.	5.1	13
29	A perspective on overcoming water-related stability challenges in molecular and hybrid semiconductors. <i>MRS Communications</i> , 2020, 10, 98-111.	1.8	8