

# Gert-Jan A H Wetzelaer

## List of Publications by Citations

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37  
papers

1,688  
citations

18  
h-index

40  
g-index

40  
ext. papers

1,952  
ext. citations

11.5  
avg, IF

5.08  
L-index

#	Paper	IF	Citations
37	Fullerene Bisadducts for Enhanced Open-Circuit Voltages and Efficiencies in Polymer Solar Cells. <i>Advanced Materials</i> , <b>2008</b> , 20, 2116-2119	24	546
36	25th anniversary article: charge transport and recombination in polymer light-emitting diodes. <i>Advanced Materials</i> , <b>2014</b> , 26, 512-31	24	158
35	Universal strategy for Ohmic hole injection into organic semiconductors with high ionization energies. <i>Nature Materials</i> , <b>2018</b> , 17, 329-334	27	119
34	Identifying the Nature of Charge Recombination in Organic Solar Cells from Charge-Transfer State Electroluminescence. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 1232-1237	21.8	85
33	A window to trap-free charge transport in organic semiconducting thin films. <i>Nature Materials</i> , <b>2019</b> , 18, 1182-1186	27	82
32	Efficient and stable single-layer organic light-emitting diodes based on thermally activated delayed fluorescence. <i>Nature Photonics</i> , <b>2019</b> , 13, 765-769	33.9	80
31	Simultaneous Open-Circuit Voltage Enhancement and Short-Circuit Current Loss in Polymer: Fullerene Solar Cells Correlated by Reduced Quantum Efficiency for Photoinduced Electron Transfer. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 85-94	21.8	72
30	Space-charge-limited electron and hole currents in hybrid organic-inorganic perovskites. <i>Nature Communications</i> , <b>2020</b> , 11, 4023	17.4	60
29	Asymmetric electron and hole transport in a high-mobility n-type conjugated polymer. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	58
28	Quantifying Bimolecular Recombination in Organic Solar Cells in Steady State. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 1130-1134	21.8	56
27	Unifying Energetic Disorder from Charge Transport and Band Bending in Organic Semiconductors. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1901109	15.6	51
26	Hole trap formation in polymer light-emitting diodes under current stress. <i>Nature Materials</i> , <b>2018</b> , 17, 557-562	27	50
25	Determination of the trap-assisted recombination strength in polymer light emitting diodes. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 093301	3.4	49
24	Electron Trapping in Conjugated Polymers. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 6380-6386	9.6	42
23	Influence of the isomeric composition of the acceptor on the performance of organic bulk heterojunction P3HT:bis-PCBM solar cells. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 15412		25
22	N-type doping of poly(p-phenylene vinylene) with air-stable dopants. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 173302	3.4	23
21	Absence of ferroelectricity in methylammonium lead iodide perovskite. <i>AIP Advances</i> , <b>2017</b> , 7, 095110	1.5	22

20	Rigorous Characterization and Predictive Modeling of Hole Transport in Amorphous Organic Semiconductors. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1800366	6.4	20
19	Improved Hole Injection into Perovskite Light-Emitting Diodes Using A Black Phosphorus Interlayer. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1800687	6.4	14
18	Device Model for Methylammonium Lead Iodide Perovskite With Experimentally Validated Ion Dynamics. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 1900935	6.4	13
17	Interlayers for Improved Hole Injection in Organic Field-Effect Transistors. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 1901352	6.4	10
16	Origin of the Efficiency Roll-Off in Single-Layer Organic Light-Emitting Diodes Based on Thermally Activated Delayed Fluorescence. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2100249	8.1	9
15	Molecular library of OLED host materialsEvaluating the multiscale simulation workflow. <i>Chemical Physics Reviews</i> , <b>2021</b> , 2, 031304	4.4	7
14	Effect of n-type doping on the hole transport in poly(p-phenylene vinylene). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2011</b> , 49, 1745-1749	2.6	6
13	Optical Outcoupling Efficiency of Organic Light-Emitting Diodes with a Broad Recombination Profile. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2001812	8.1	6
12	Molecular Origin of Balanced Bipolar Transport in Neat Layers of the Emitter CzDBA. <i>Advanced Materials Technologies</i> , <b>2021</b> , 6, 2000120	6.8	6
11	Efficiency of Polymer Light-Emitting Diodes: A Perspective. <i>Advanced Materials</i> , <b>2021</b> , e2108887	24	3
10	Virtual Screening of TADF Emitters for Single-Layer OLEDs.. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 800027	5	3
9	Optical Outcoupling Efficiency in Polymer Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , <b>2021</b> , 7, 2100155	6.4	2
8	Universal Electroluminescence at Voltages below the Energy Gap in Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2101149	8.1	2
7	De Novo Simulation of Charge Transport through Organic Single-Carrier Devices. <i>Journal of Chemical Theory and Computation</i> , <b>2021</b> , 17, 6416-6422	6.4	2
6	Hole-transport comparison between solution-processed and vacuum-deposited organic semiconductors. <i>APL Materials</i> , <b>2019</b> , 7, 011105	5.7	1
5	Polymer light-emitting diodes with doped hole-transport layers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2011</b> , 208, 2482-2487	1.6	1
4	Role of Singlet and Triplet Excitons on the Electrical Stability of Polymer Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 2000367	6.4	1
3	Quantifying Exciton Annihilation Effects in Thermally Activated Delayed Fluorescence Materials. <i>Advanced Optical Materials</i> , <b>2022</b> , 10, 2101784	8.1	1

2	Numerical Device Model for Organic Light-Emitting Diodes Based on Thermally Activated Delayed Fluorescence. <i>Advanced Electronic Materials</i> , 2101261	6.4	o
1	Role of Linker Functionality in Polymers Exhibiting Main-Chain Thermally Activated Delayed Fluorescence.. <i>Advanced Science</i> , 2022, e2200056	13.6	o