

# Joachim Loos

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/11430403/joachim-loos-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79  
papers

8,511  
citations

39  
h-index

83  
g-index

83  
ext. papers

8,843  
ext. citations

6.8  
avg, IF

5.78  
L-index

#	Paper	IF	Citations
79	Nanoscale morphology of high-performance polymer solar cells. <i>Nano Letters</i> , <b>2005</b> , 5, 579-83	11.5	1424
78	Controlling the dispersion of multi-wall carbon nanotubes in aqueous surfactant solution. <i>Carbon</i> , <b>2007</b> , 45, 618-623	10.4	580
77	Toward High-Performance Polymer Solar Cells: The Importance of Morphology Control. <i>Macromolecules</i> , <b>2007</b> , 40, 1353-1362	5.5	563
76	Compositional and electric field dependence of the dissociation of charge transfer excitons in alternating polyfluorene copolymer/fullerene blends. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 7721-35	16.4	521
75	The effect of three-dimensional morphology on the efficiency of hybrid polymer solar cells. <i>Nature Materials</i> , <b>2009</b> , 8, 818-24	27	485
74	Toolbox for Dispersing Carbon Nanotubes into Polymers To Get Conductive Nanocomposites. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 1089-1099	9.6	466
73	Three-dimensional nanoscale organization of bulk heterojunction polymer solar cells. <i>Nano Letters</i> , <b>2009</b> , 9, 507-13	11.5	463
72	Morphology and Thermal Stability of the Active Layer in Poly(p-phenylenevinylene)/Methanofullerene Plastic Photovoltaic Devices. <i>Macromolecules</i> , <b>2004</b> , 37, 2151-2158	5.5	325
71	P3HT/PCBM Bulk Heterojunction Solar Cells: Impact of Blend Composition and 3D Morphology on Device Performance. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 1458-1463	15.6	248
70	High-Conductivity Polymer Nanocomposites Obtained by Tailoring the Characteristics of Carbon Nanotube Fillers. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 3226-3234	15.6	203
69	Time-dependent study of the exfoliation process of carbon nanotubes in aqueous dispersions by using UV-visible spectroscopy. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 5135-9	7.8	194
68	Latex-based concept for the preparation of graphene-based polymer nanocomposites. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 3035		170
67	Nanomorphology and Charge Generation in Bulk Heterojunctions Based on Low-Bandgap Dithiophene Polymers with Different Bridging Atoms. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 1180-1188	15.6	169
66	Relation between Photoactive Layer Thickness, 3D Morphology, and Device Performance in P3HT/PCBM Bulk-Heterojunction Solar Cells. <i>Macromolecules</i> , <b>2009</b> , 42, 7396-7403	5.5	166
65	Characterization of conductive multiwall carbon nanotube/polystyrene composites prepared by latex technology. <i>Carbon</i> , <b>2007</b> , 45, 2897-2903	10.4	138
64	Visualization of single-wall carbon nanotube (SWNT) networks in conductive polystyrene nanocomposites by charge contrast imaging. <i>Ultramicroscopy</i> , <b>2005</b> , 104, 160-7	3.1	135
63	Carbon Nanotube/Isotactic Polypropylene Composites Prepared by Latex Technology: Morphology Analysis of CNT-Induced Nucleation. <i>Macromolecules</i> , <b>2008</b> , 41, 8081-8085	5.5	128

62	Efficient polymer:polymer bulk heterojunction solar cells. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 083504	3.4	123
61	Isotactic Polypropylene/Carbon Nanotube Composites Prepared by Latex Technology. Thermal Analysis of Carbon Nanotube-Induced Nucleation. <i>Macromolecules</i> , <b>2008</b> , 41, 5753-5762	5.5	116
60	Strategies for dispersing carbon nanotubes in highly viscous polymers. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 2349		108
59	The formation of crystalline P3HT fibrils upon annealing of a PCBM:P3HT bulk heterojunction. <i>Thin Solid Films</i> , <b>2006</b> , 511-512, 2-6	2.2	88
58	Triplet exciton generation in bulk-heterojunction solar cells based on endohedral fullerenes. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 9088-94	16.4	87
57	On the influence of the processing conditions on the performance of electrically conductive carbon nanotube/polymer nanocomposites. <i>Polymer</i> , <b>2008</b> , 49, 2866-2872	3.9	85
56	On the Crucial Role of Wetting in the Preparation of Conductive Polystyrene/Carbon Nanotube Composites. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 3787-3792	9.6	83
55	Controlling the Morphology and Efficiency of Hybrid ZnO:Polythiophene Solar Cells Via Side Chain Functionalization. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 90-96	21.8	78
54	Effect of Spatial Confinement on the Morphology Evolution of Thin Poly(p-phenylenevinylene)/Methanofullerene Composite Films. <i>Macromolecules</i> , <b>2005</b> , 38, 4289-4295	5.5	76
53	Nanoscale structure of solar cells based on pure conjugated polymer blends. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2007</b> , 15, 727-740	6.8	75
52	On the importance of morphology control in polymer solar cells. <i>Macromolecular Rapid Communications</i> , <b>2010</b> , 31, 1835-45	4.8	73
51	Fragmentation Behavior of Silica-Supported Metallocene/MAO Catalyst in the Early Stages of Olefin Polymerization. <i>Macromolecules</i> , <b>2005</b> , 38, 4673-4678	5.5	60
50	Three-dimensional nanoscale organization of polymer solar cells. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 5388		57
49	Accurately evaluating Young's modulus of polymers through nanoindentations: A phenomenological correction factor to the Oliver and Pharr procedure. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 171905	3.4	56
48	High-Resolution Chemical Identification of Polymer Blend Thin Films Using Tip-Enhanced Raman Mapping. <i>Macromolecules</i> , <b>2011</b> , 44, 2852-2858	5.5	50
47	Block-Copolymer-Assisted Solubilization of Carbon Nanotubes and Exfoliation Monitoring Through Viscosity. <i>Macromolecular Rapid Communications</i> , <b>2006</b> , 27, 1073-1078	4.8	49
46	Imaging Polymer Systems with High-Angle Annular Dark Field Scanning Transmission Electron Microscopy (HAADF-STEM). <i>Macromolecules</i> , <b>2009</b> , 42, 2581-2586	5.5	46
45	Local Organization of Graphene Network Inside Graphene/Polymer Composites. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 1311-1318	15.6	42

44	Quantitative Insight into Morphology Evolution of Thin PPV/PCBM Composite Films upon Thermal Treatment. <i>Macromolecules</i> , <b>2006</b> , 39, 218-223	5.5	42
43	Observation of shish crystal growth into nondeformed melts. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2000</b> , 38, 1183-1187	2.6	42
42	The use of the focused ion beam technique to prepare cross-sectional transmission electron microscopy specimen of polymer solar cells deposited on glass. <i>Polymer</i> , <b>2002</b> , 43, 7493-7496	3.9	41
41	Graphene Network Organisation in Conductive Polymer Composites. <i>Macromolecular Chemistry and Physics</i> , <b>2012</b> , 213, 1251-1258	2.6	39
40	Isotactic polypropylene/carbon nanotube composites prepared by latex technology: Electrical conductivity study. <i>European Polymer Journal</i> , <b>2010</b> , 46, 1833-1843	5.2	38
39	Three-dimensional Electrical Property Mapping with Nanometer Resolution. <i>Advanced Materials</i> , <b>2009</b> , 21, 4915-4919	24	37
38	Volume Organization of Polymer and Hybrid Solar Cells as Revealed by Electron Tomography. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 3217-3234	15.6	37
37	Epitaxy-Induced Crystallization of Olefin Block Copolymers. <i>Macromolecules</i> , <b>2012</b> , 45, 5979-5985	5.5	33
36	Structure-function relations in diF-TES-ADT blend organic field effect transistors studied by scanning probe microscopy. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 245-255	7.1	32
35	Morphology Evolution in the Early Stages of Olefin Polymerization. <i>Macromolecular Symposia</i> , <b>2006</b> , 236, 249-258	0.8	31
34	Effect of 1-hexene comonomer on polyethylene particle growth and copolymer chemical composition distribution. <i>Journal of Polymer Science Part A</i> , <b>2006</b> , 44, 2883-2890	2.5	31
33	Influence of Copolymerization on Fragmentation Behavior Using Ziegler-Natta Catalysts. <i>Macromolecular Rapid Communications</i> , <b>2006</b> , 27, 15-20	4.8	30
32	Characterization of latex-based isotactic polypropylene/clay nanocomposites. <i>Polymer</i> , <b>2009</b> , 50, 3739-3746	3.46	29
31	On the overdrawing of melt-spun isotactic polypropylene tapes. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 103, 2920-2931	2.9	25
30	Conductive atomic force microscopy (C-AFM) analysis of photoactive layers in inert atmosphere. <i>Organic Electronics</i> , <b>2008</b> , 9, 149-154	3.5	25
29	Melting behavior of nascent polyolefins synthesized at various polymerization conditions. <i>Polymer Bulletin</i> , <b>2002</b> , 48, 191-198	2.4	25
28	Effects of methylaluminoxane immobilization on silica on the performance of zirconocene catalysts in propylene polymerization. <i>Journal of Polymer Science Part A</i> , <b>2005</b> , 43, 2734-2748	2.5	25
27	Three-dimensional imaging of polymer materials by Scanning Probe Tomography. <i>European Polymer Journal</i> , <b>2014</b> , 52, 154-165	5.2	24

26	Morphology determination of functional poly[2-methoxy-5-(3,7-dimethyloctyloxy)-1,4-phenylenevinylene]/poly[oxa-1,4-phenylene-1,2-(1-cyanovinylene)-2-methoxy] blends as used for all-polymer solar cells. <i>Journal of Applied Polymer Science</i> , <b>2005</b> , 97, 1001-1007		
25	On the fate of carbon nanotubes: Morphological characterisations. <i>Composites Science and Technology</i> , <b>2007</b> , 67, 783-788	8.6	21
24	Automated Scanning Probe Microscopy as a New Tool for Combinatorial Polymer Research: Conductive Carbon Black/Poly(dimethylsiloxane) Composites. <i>Macromolecular Rapid Communications</i> , <b>2003</b> , 24, 113-117	4.8	19
23	High-angle annular dark field scanning transmission electron microscopy on carbon-based functional polymer systems. <i>Microscopy and Microanalysis</i> , <b>2009</b> , 15, 251-8	0.5	16
22	Wirrige Zweiphasenhydroformylierung von 1-Octen: Styrol-Latices als Phasentransfervermittler. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 7447-7450	3.6	16
21	Effects of propylene prepolymerization on ethylene/1-hexene and ethylene/1-octene copolymerization with an immobilized metallocene catalyst. <i>Journal of Polymer Science Part A</i> , <b>2006</b> , 44, 6652-6657	2.5	16
20	Nano-morphology characterization of organic bulk heterojunctions based on mono and bis-adduct fullerenes. <i>Organic Electronics</i> , <b>2012</b> , 13, 1315-1321	3.5	15
19	Volume morphology of printable solar cells. <i>Materials Today</i> , <b>2010</b> , 13, 14-20	21.8	15
18	Characterization of polypropylene/layered silicate nanocomposites prepared by single-step method. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2010</b> , 100, 629-639	4.1	11
17	A MULTISCALE APPROACH TO THE REPRESENTATION OF 3D IMAGES, WITH APPLICATION TO POLYMER SOLAR CELLS. <i>Image Analysis and Stereology</i> , <b>2011</b> , 30, 19	1	8
16	Morphology and Performance of Poly(2-methoxy-5-(20-ethyl-hexyloxy)-p-phenylenevinylene) (MEH-PPV):(6,6)-phenyl-C61-butyric Acid Methyl Ester (PCBM) Based Polymer Solar Cells. <i>Chinese Journal of Chemistry</i> , <b>2013</b> , 31, 731-736	4.9	6
15	Modification of EPDM with Alkylphenol Polysulfide For Use in Tire Sidewalls, 2 [Mechanistic and Morphological Characterizations. <i>Macromolecular Materials and Engineering</i> , <b>2010</b> , 295, 76-83	3.9	6
14	A Latex-Based Route to Disperse Carbon Nanotubes in Poly(2,6-Dimethyl-1,4-Phenylene Ether)/Polystyrene Blends. <i>Macromolecular Materials and Engineering</i> , <b>2014</b> , 299, 228-236	3.9	4
13	Ternary donor-insulator-acceptor systems for polymer solar cells. <i>Macromolecular Rapid Communications</i> , <b>2012</b> , 33, 1882-7	4.8	4
12	Influence of Porosity on the Fragmentation of Ziegler-Natta Catalyst in the Early Stages of Propylene Polymerization. <i>E-Polymers</i> , <b>2006</b> , 6,	2.7	4
11	Improving Polymer Based Photovoltaic Devices by Reducing the Voltage Loss at the Donor-Acceptor Interface. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 974, 1		4
10	Photoconductance of Bulk Heterojunctions with Tunable Nanomorphology Consisting of P3HT and Naphthalene Diimide Siloxane Oligomers. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 7863-7869	3.8	2
9	Surface Model for Gas-Phase Polymerizations of Ethylene and Propylene Using Supported Metallocene/Methylalumoxane Catalysts. <i>Israel Journal of Chemistry</i> , <b>2002</b> , 42, 367-372	3.4	2

- 8 Observation of shish crystal growth into nondeformed melts **2000**, 38, 1183 2
- 7 Scanning Probe Microscopy on Polymer Solar Cells **2008**, 183-215 1
- 6 Observation of shish crystal growth into nondeformed melts **2000**, 38, 1183 1
- 5 Nanoscale Morphological Characterization for Semiconductive Polymer Blends **2013**, 39-64
- 4 On the Importance of Morphology Control for Printable Solar Cells. *Green Energy and Technology*, **2011**, 227-249 0.6
- 3 Morphology of Bulk Heterojunction Solar Cells 299-326
- 2 Analysis of nano-composites based on carbon nanoparticles imbedded in polymers **2008**, 769-770
- 1 Exploring the 3D organisation of high-performance organic solar cells **2008**, 795-796