

Joachim Loos

List of Publications by Year in Descending Order

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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	Three-dimensional imaging of polymer materials by Scanning Probe Tomography. <i>European Polymer Journal</i> , 2014 , 52, 154-165	5.2	24
78	Structure-function relations in diF-TES-ADT blend organic field effect transistors studied by scanning probe microscopy. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 245-255	7.1	32
77	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> , 2014 , 299, 228-236	3.9	4
76	Nanoscale Morphological Characterization for Semiconductive Polymer Blends 2013 , 39-64		
75	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> , 2013 , 31, 731-736	4.9	6
74	Nano-morphology characterization of organic bulk heterojunctions based on mono and bis-adduct fullerenes. <i>Organic Electronics</i> , 2012 , 13, 1315-1321	3.5	15
73	Ternary donor-insulator-acceptor systems for polymer solar cells. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 1882-7	4.8	4
72	Epitaxy-Induced Crystallization of Olefin Block Copolymers. <i>Macromolecules</i> , 2012 , 45, 5979-5985	5.5	33
71	Graphene Network Organisation in Conductive Polymer Composites. <i>Macromolecular Chemistry and Physics</i> , 2012 , 213, 1251-1258	2.6	39
70	Local Organization of Graphene Network Inside Graphene/Polymer Composites. <i>Advanced Functional Materials</i> , 2012 , 22, 1311-1318	15.6	42
69	On the Importance of Morphology Control for Printable Solar Cells. <i>Green Energy and Technology</i> , 2011 , 227-249	0.6	
68	Controlling the Morphology and Efficiency of Hybrid ZnO:Polythiophene Solar Cells Via Side Chain Functionalization. <i>Advanced Energy Materials</i> , 2011 , 1, 90-96	21.8	78
67	Triplet exciton generation in bulk-heterojunction solar cells based on endohedral fullerenes. <i>Journal of the American Chemical Society</i> , 2011 , 133, 9088-94	16.4	87
66	High-Resolution Chemical Identification of Polymer Blend Thin Films Using Tip-Enhanced Raman Mapping. <i>Macromolecules</i> , 2011 , 44, 2852-2858	5.5	50
65	A MULTISCALE APPROACH TO THE REPRESENTATION OF 3D IMAGES, WITH APPLICATION TO POLYMER SOLAR CELLS. <i>Image Analysis and Stereology</i> , 2011 , 30, 19	1	8
64	Latex-based concept for the preparation of graphene-based polymer nanocomposites. <i>Journal of Materials Chemistry</i> , 2010 , 20, 3035		170
63	Characterization of polypropylene/layered silicate nanocomposites prepared by single-step method. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010 , 100, 629-639	4.1	11

62	Nanomorphology and Charge Generation in Bulk Heterojunctions Based on Low-Bandgap Dithiophene Polymers with Different Bridging Atoms. <i>Advanced Functional Materials</i> , 2010 , 20, 1180-1188	15.6	169
61	P3HT/PCBM Bulk Heterojunction Solar Cells: Impact of Blend Composition and 3D Morphology on Device Performance. <i>Advanced Functional Materials</i> , 2010 , 20, 1458-1463	15.6	248
60	Volume Organization of Polymer and Hybrid Solar Cells as Revealed by Electron Tomography. <i>Advanced Functional Materials</i> , 2010 , 20, 3217-3234	15.6	37
59	Modification of EPDM with Alkylphenol Polysulfide for Use in Tire Sidewalls, 2 [Mechanistic and Morphological Characterizations. <i>Macromolecular Materials and Engineering</i> , 2010 , 295, 76-83	3.9	6
58	On the importance of morphology control in polymer solar cells. <i>Macromolecular Rapid Communications</i> , 2010 , 31, 1835-45	4.8	73
57	Isotactic polypropylene/carbon nanotube composites prepared by latex technology: Electrical conductivity study. <i>European Polymer Journal</i> , 2010 , 46, 1833-1843	5.2	38
56	Volume morphology of printable solar cells. <i>Materials Today</i> , 2010 , 13, 14-20	21.8	15
55	Three-dimensional Electrical Property Mapping with Nanometer Resolution. <i>Advanced Materials</i> , 2009 , 21, 4915-4919	24	37
54	The effect of three-dimensional morphology on the efficiency of hybrid polymer solar cells. <i>Nature Materials</i> , 2009 , 8, 818-24	27	485
53	Characterization of latex-based isotactic polypropylene/clay nanocomposites. <i>Polymer</i> , 2009 , 50, 3739-3746	3.46	29
52	Imaging Polymer Systems with High-Angle Annular Dark Field Scanning Transmission Electron Microscopy (HAADF/STEM). <i>Macromolecules</i> , 2009 , 42, 2581-2586	5.5	46
51	Photoconductance of Bulk Heterojunctions with Tunable Nanomorphology Consisting of P3HT and Naphthalene Diimide Siloxane Oligomers. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 7863-7869	3.8	2
50	Relation between Photoactive Layer Thickness, 3D Morphology, and Device Performance in P3HT/PCBM Bulk-Heterojunction Solar Cells. <i>Macromolecules</i> , 2009 , 42, 7396-7403	5.5	166
49	Three-dimensional nanoscale organization of bulk heterojunction polymer solar cells. <i>Nano Letters</i> , 2009 , 9, 507-13	11.5	463
48	High-angle annular dark field scanning transmission electron microscopy on carbon-based functional polymer systems. <i>Microscopy and Microanalysis</i> , 2009 , 15, 251-8	0.5	16
47	Three-dimensional nanoscale organization of polymer solar cells. <i>Journal of Materials Chemistry</i> , 2009 , 19, 5388		57
46	Carbon Nanotube/Isotactic Polypropylene Composites Prepared by Latex Technology: Morphology Analysis of CNT-Induced Nucleation. <i>Macromolecules</i> , 2008 , 41, 8081-8085	5.5	128
45	Isotactic Polypropylene/Carbon Nanotube Composites Prepared by Latex Technology. Thermal Analysis of Carbon Nanotube-Induced Nucleation. <i>Macromolecules</i> , 2008 , 41, 5753-5762	5.5	116

44	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> , 2008 , 130, 7721-35	16.4	521
43	High-Conductivity Polymer Nanocomposites Obtained by Tailoring the Characteristics of Carbon Nanotube Fillers. <i>Advanced Functional Materials</i> , 2008 , 18, 3226-3234	15.6	203
42	On the influence of the processing conditions on the performance of electrically conductive carbon nanotube/polymer nanocomposites. <i>Polymer</i> , 2008 , 49, 2866-2872	3.9	85
41	Conductive atomic force microscopy (C-AFM) analysis of photoactive layers in inert atmosphere. <i>Organic Electronics</i> , 2008 , 9, 149-154	3.5	25
40	Analysis of nano-composites based on carbon nanoparticles imbedded in polymers 2008 , 769-770		
39	Exploring the 3D organisation of high-performance organic solar cells 2008 , 795-796		
38	Scanning Probe Microscopy on Polymer Solar Cells 2008 , 183-215		1
37	On the overdrawing of melt-spun isotactic polypropylene tapes. <i>Journal of Applied Polymer Science</i> , 2007 , 103, 2920-2931	2.9	25
36	On the fate of carbon nanotubes: Morphological characterisations. <i>Composites Science and Technology</i> , 2007 , 67, 783-788	8.6	21
35	Controlling the dispersion of multi-wall carbon nanotubes in aqueous surfactant solution. <i>Carbon</i> , 2007 , 45, 618-623	10.4	580
34	Characterization of conductive multiwall carbon nanotube/polystyrene composites prepared by latex technology. <i>Carbon</i> , 2007 , 45, 2897-2903	10.4	138
33	Nanoscale structure of solar cells based on pure conjugated polymer blends. <i>Progress in Photovoltaics: Research and Applications</i> , 2007 , 15, 727-740	6.8	75
32	Toward High-Performance Polymer Solar Cells: The Importance of Morphology Control. <i>Macromolecules</i> , 2007 , 40, 1353-1362	5.5	563
31	On the Crucial Role of Wetting in the Preparation of Conductive Polystyrene-Carbon Nanotube Composites. <i>Chemistry of Materials</i> , 2007 , 19, 3787-3792	9.6	83
30	The formation of crystalline P3HT fibrils upon annealing of a PCBM:P3HT bulk heterojunction. <i>Thin Solid Films</i> , 2006 , 511-512, 2-6	2.2	88
29	Influence of Copolymerization on Fragmentation Behavior Using Ziegler-Natta Catalysts. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 15-20	4.8	30
28	Block-Copolymer-Assisted Solubilization of Carbon Nanotubes and Exfoliation Monitoring Through Viscosity. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 1073-1078	4.8	49
27	Wässrige Zweiphasenhydroformylierung von 1-Octen: Styrol-Latices als Phasentransfermittler. <i>Angewandte Chemie</i> , 2006 , 118, 7447-7450	3.6	16

26	Morphology Evolution in the Early Stages of Olefin Polymerization. <i>Macromolecular Symposia</i> , 2006 , 236, 249-258	0.8	31
25	Efficient polymer:polymer bulk heterojunction solar cells. <i>Applied Physics Letters</i> , 2006 , 88, 083504	3.4	123
24	Influence of Porosity on the Fragmentation of Ziegler-Natta Catalyst in the Early Stages of Propylene Polymerization. <i>E-Polymers</i> , 2006 , 6,	2.7	4
23	Accurately evaluating Young's modulus of polymers through nanoindentations: A phenomenological correction factor to the Oliver and Pharr procedure. <i>Applied Physics Letters</i> , 2006 , 89, 171905	3.4	56
22	Improving Polymer Based Photovoltaic Devices by Reducing the Voltage Loss at the Donor-Acceptor Interface. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 974, 1		4
21	Quantitative Insight into Morphology Evolution of Thin PPV/PCBM Composite Films upon Thermal Treatment. <i>Macromolecules</i> , 2006 , 39, 218-223	5.5	42
20	Toolbox for Dispersing Carbon Nanotubes into Polymers To Get Conductive Nanocomposites. <i>Chemistry of Materials</i> , 2006 , 18, 1089-1099	9.6	466
19	Effect of 1-hexene comonomer on polyethylene particle growth and copolymer chemical composition distribution. <i>Journal of Polymer Science Part A</i> , 2006 , 44, 2883-2890	2.5	31
18	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> , 2006 , 44, 6652-6657	2.5	16
17	Time-dependent study of the exfoliation process of carbon nanotubes in aqueous dispersions by using UV-visible spectroscopy. <i>Analytical Chemistry</i> , 2005 , 77, 5135-9	7.8	194
16	Fragmentation Behavior of Silica-Supported Metallocene/MAO Catalyst in the Early Stages of Olefin Polymerization. <i>Macromolecules</i> , 2005 , 38, 4673-4678	5.5	60
15	Nanoscale morphology of high-performance polymer solar cells. <i>Nano Letters</i> , 2005 , 5, 579-83	11.5	1424
14	Effect of Spatial Confinement on the Morphology Evolution of Thin Poly(p-phenylenevinylene)/Methanofullerene Composite Films. <i>Macromolecules</i> , 2005 , 38, 4289-4295	5.5	76
13	Strategies for dispersing carbon nanotubes in highly viscous polymers. <i>Journal of Materials Chemistry</i> , 2005 , 15, 2349		108
12	Visualization of single-wall carbon nanotube (SWNT) networks in conductive polystyrene nanocomposites by charge contrast imaging. <i>Ultramicroscopy</i> , 2005 , 104, 160-7	3.1	135
11	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> , 2005 , 97, 1001-1007		
10	Effects of methylaluminoxane immobilization on silica on the performance of zirconocene catalysts in propylene polymerization. <i>Journal of Polymer Science Part A</i> , 2005 , 43, 2734-2748	2.5	25
9	Morphology and Thermal Stability of the Active Layer in Poly(p-phenylenevinylene)/Methanofullerene Plastic Photovoltaic Devices. <i>Macromolecules</i> , 2004 , 37, 2151-2158	5.5	325

8	Automated Scanning Probe Microscopy as a New Tool for Combinatorial Polymer Research: Conductive Carbon Black/Poly(dimethylsiloxane) Composites. <i>Macromolecular Rapid Communications</i> , 2003 , 24, 113-117	4.8	19
7	Melting behavior of nascent polyolefins synthesized at various polymerization conditions. <i>Polymer Bulletin</i> , 2002 , 48, 191-198	2.4	25
6	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> , 2002 , 43, 7493-7496	3.9	41
5	Surface Model for Gas-Phase Polymerizations of Ethylene and Propylene Using Supported Metallocene/Methylalumoxane Catalysts. <i>Israel Journal of Chemistry</i> , 2002 , 42, 367-372	3.4	2
4	Observation of shish crystal growth into nondeformed melts. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000 , 38, 1183-1187	2.6	42
3	Observation of shish crystal growth into nondeformed melts 2000 , 38, 1183		1
2	Observation of shish crystal growth into nondeformed melts 2000 , 38, 1183		2
1	Morphology of Bulk Heterojunction Solar Cells 299-326		