Joachim Loos

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/11430403/publications.pdf

Version: 2024-02-01

76	9,121	76326	79698
papers	citations	40 h-index	73 g-index

83	83	83	9678
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanoscale Morphology of High-Performance Polymer Solar Cells. Nano Letters, 2005, 5, 579-583.	9.1	1,499
2	Controlling the dispersion of multi-wall carbon nanotubes in aqueous surfactant solution. Carbon, 2007, 45, 618-623.	10.3	652
3	Toward High-Performance Polymer Solar Cells:Â The Importance of Morphology Control. Macromolecules, 2007, 40, 1353-1362.	4.8	588
4	Compositional and Electric Field Dependence of the Dissociation of Charge Transfer Excitons in Alternating Polyfluorene Copolymer/Fullerene Blends. Journal of the American Chemical Society, 2008, 130, 7721-7735.	13.7	544
5	The effect of three-dimensional morphology on the efficiency of hybrid polymer solar cells. Nature Materials, 2009, 8, 818-824.	27.5	511
6	Toolbox for Dispersing Carbon Nanotubes into Polymers To Get Conductive Nanocomposites. Chemistry of Materials, 2006, 18, 1089-1099.	6.7	496
7	Three-Dimensional Nanoscale Organization of Bulk Heterojunction Polymer Solar Cells. Nano Letters, 2009, 9, 507-513.	9.1	476
8	Morphology and Thermal Stability of the Active Layer in Poly(p-phenylenevinylene)/Methanofullerene Plastic Photovoltaic Devices. Macromolecules, 2004, 37, 2151-2158.	4.8	339
9	P3HT/PCBM Bulk Heterojunction Solar Cells: Impact of Blend Composition and 3D Morphology on Device Performance. Advanced Functional Materials, 2010, 20, 1458-1463.	14.9	259
10	Time-Dependent Study of the Exfoliation Process of Carbon Nanotubes in Aqueous Dispersions by Using UVâ"Visible Spectroscopy. Analytical Chemistry, 2005, 77, 5135-5139.	6.5	223
11	Highâ€Conductivity Polymer Nanocomposites Obtained by Tailoring the Characteristics of Carbon Nanotube Fillers. Advanced Functional Materials, 2008, 18, 3226-3234.	14.9	217
12	Latex-based concept for the preparation of graphene-based polymer nanocomposites. Journal of Materials Chemistry, 2010, 20, 3035.	6.7	188
13	Relation between Photoactive Layer Thickness, 3D Morphology, and Device Performance in P3HT/PCBM Bulk-Heterojunction Solar Cells. Macromolecules, 2009, 42, 7396-7403.	4.8	180
14	Nanomorphology and Charge Generation in Bulk Heterojunctions Based on Lowâ€Bandgap Dithiophene Polymers with Different Bridging Atoms. Advanced Functional Materials, 2010, 20, 1180-1188.	14.9	173
15	Characterization of conductive multiwall carbon nanotube/polystyrene composites prepared by latex technology. Carbon, 2007, 45, 2897-2903.	10.3	152
16	Visualization of single-wall carbon nanotube (SWNT) networks in conductive polystyrene nanocomposites by charge contrast imaging. Ultramicroscopy, 2005, 104, 160-167.	1.9	146
17	Carbon Nanotube/Isotactic Polypropylene Composites Prepared by Latex Technology: Morphology Analysis of CNT-Induced Nucleation. Macromolecules, 2008, 41, 8081-8085.	4.8	138
18	Efficient polymer:polymer bulk heterojunction solar cells. Applied Physics Letters, 2006, 88, 083504.	3.3	129

#	Article	IF	Citations
19	Isotactic Polypropylene/Carbon Nanotube Composites Prepared by Latex Technology. Thermal Analysis of Carbon Nanotube-Induced Nucleation. Macromolecules, 2008, 41, 5753-5762.	4.8	126
20	Strategies for dispersing carbon nanotubes in highly viscous polymers. Journal of Materials Chemistry, 2005, 15, 2349.	6.7	115
21	On the influence of the processing conditions on the performance of electrically conductive carbon nanotube/polymer nanocomposites. Polymer, 2008, 49, 2866-2872.	3.8	94
22	The formation of crystalline P3HT fibrils upon annealing of a PCBM:P3HT bulk heterojunction. Thin Solid Films, 2006, 511-512, 2-6.	1.8	93
23	Triplet Exciton Generation in Bulk-Heterojunction Solar Cells Based on Endohedral Fullerenes. Journal of the American Chemical Society, 2011, 133, 9088-9094.	13.7	91
24	On the Crucial Role of Wetting in the Preparation of Conductive Polystyreneâ^'Carbon Nanotube Composites. Chemistry of Materials, 2007, 19, 3787-3792.	6.7	84
25	Effect of Spatial Confinement on the Morphology Evolution of Thin Poly(p-phenylenevinylene)/Methanofullerene Composite Films. Macromolecules, 2005, 38, 4289-4295.	4.8	81
26	Controlling the Morphology and Efficiency of Hybrid ZnO:Polythiophene Solar Cells Via Side Chain Functionalization. Advanced Energy Materials, 2011, 1, 90-96.	19.5	80
27	Nanoscale structure of solar cells based on pure conjugated polymer blends. Progress in Photovoltaics: Research and Applications, 2007, 15, 727-740.	8.1	78
28	On the Importance of Morphology Control in Polymer Solar Cells. Macromolecular Rapid Communications, 2010, 31, 1835-1845.	3.9	77
29	Fragmentation Behavior of Silica-Supported Metallocene/MAO Catalyst in the Early Stages of Olefin Polymerization. Macromolecules, 2005, 38, 4673-4678.	4.8	70
30	Accurately evaluating Youngâ€™s modulus of polymers through nanoindentations: A phenomenological correction factor to the Oliver and Pharr procedure. Applied Physics Letters, 2006, 89, 171905.	3.3	62
31	Three-dimensional nanoscale organization of polymer solar cells. Journal of Materials Chemistry, 2009, 19, 5388.	6.7	62
32	High-Resolution Chemical Identification of Polymer Blend Thin Films Using Tip-Enhanced Raman Mapping. Macromolecules, 2011, 44, 2852-2858.	4.8	56
33	Imaging Polymer Systems with High-Angle Annular Dark Field Scanning Transmission Electron Microscopy (HAADFâ^'STEM). Macromolecules, 2009, 42, 2581-2586.	4.8	54
34	Block-Copolymer-Assisted Solubilization of Carbon Nanotubes and Exfoliation Monitoring Through Viscosity. Macromolecular Rapid Communications, 2006, 27, 1073-1078.	3.9	52
35	Observation of shish crystal growth into nondeformed melts. Journal of Polymer Science, Part B: Polymer Physics, 2000, 38, 1183-1187.	2.1	46
36	Quantitative Insight into Morphology Evolution of Thin PPV/PCBM Composite Films upon Thermal Treatment. Macromolecules, 2006, 39, 218-223.	4.8	46

#	Article	IF	Citations
37	The use of the focused ion beam technique to prepare cross-sectional transmission electron microscopy specimen of polymer solar cells deposited on glass. Polymer, 2002, 43, 7493-7496.	3.8	45
38	Local Organization of Graphene Network Inside Graphene/Polymer Composites. Advanced Functional Materials, 2012, 22, 1311-1318.	14.9	44
39	Morphology Evolution in the Early Stages of Olefin Polymerization. Macromolecular Symposia, 2006, 236, 249-258.	0.7	42
40	Isotactic polypropylene/carbon nanotube composites prepared by latex technology: Electrical conductivity study. European Polymer Journal, 2010, 46, 1833-1843.	5.4	42
41	Epitaxy-Induced Crystallization of Olefin Block Copolymers. Macromolecules, 2012, 45, 5979-5985.	4.8	42
42	Threeâ€dimensional Electrical Property Mapping with Nanometer Resolution. Advanced Materials, 2009, 21, 4915-4919.	21.0	41
43	Characterization of latex-based isotactic polypropylene/clay nanocomposites. Polymer, 2009, 50, 3739-3746.	3.8	41
44	Graphene Network Organisation in Conductive Polymer Composites. Macromolecular Chemistry and Physics, 2012, 213, 1251-1258.	2.2	41
45	Volume Organization of Polymer and Hybrid Solar Cells as Revealed by Electron Tomography. Advanced Functional Materials, 2010, 20, 3217-3234.	14.9	39
46	Influence of Copolymerization on Fragmentation Behavior Using Ziegler-Natta Catalysts. Macromolecular Rapid Communications, 2006, 27, 15-20.	3.9	38
47	Structureâ€“function relations in diF-TES-ADT blend organic field effect transistors studied by scanning probe microscopy. Journal of Materials Chemistry C, 2014, 2, 245-255.	5.5	37
48	Effect of 1-hexene comonomer on polyethylene particle growth and copolymer chemical composition distribution. Journal of Polymer Science Part A, 2006, 44, 2883-2890.	2.3	34
49	Melting behavior of nascent polyolefins synthesized at various polymerization conditions. Polymer Bulletin, 2002, 48, 191-198.	3.3	32
50	Effects of methylaluminoxane immobilization on silica on the performance of zirconocene catalysts in propylene polymerization. Journal of Polymer Science Part A, 2005, 43, 2734-2748.	2.3	30
51	Conductive atomic force microscopy (C-AFM) analysis of photoactive layers in inert atmosphere. Organic Electronics, 2008, 9, 149-154.	2.6	26
52	Automated Scanning Probe Microscopy as a New Tool for Combinatorial Polymer Research: Conductive Carbon Black/Poly(dimethylsiloxane) Composites. Macromolecular Rapid Communications, 2003, 24, 113-117.	3.9	25
53	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,5-(3,7-dimeth blends as used for all-polymer solar cells. Journal of Applied Polymer Science, 2005, 97, 1001-1007.	2.6	25
54	On the overdrawing of melt-spun isotactic polypropylene tapes. Journal of Applied Polymer Science, 2007, 103, 2920-2931.	2.6	25

#	Article	IF	Citations
55	On the fate of carbon nanotubes: Morphological characterisations. Composites Science and Technology, 2007, 67, 783-788.	7.8	25
56	Three-dimensional imaging of polymer materials by Scanning Probe Tomography. European Polymer Journal, 2014, 52, 154-165.	5.4	25
57	High-Angle Annular Dark Field Scanning Transmission Electron Microscopy on Carbon-Based Functional Polymer Systems. Microscopy and Microanalysis, 2009, 15, 251-258.	0.4	18
58	Effects of propylene prepolymerization on ethylene/1-hexene and ethylene/1-octene copolymerization with an immobilized metallocene catalyst. Journal of Polymer Science Part A, 2006, 44, 6652-6657.	2.3	16
59	Volume morphology of printable solar cells. Materials Today, 2010, 13, 14-20.	14.2	16
60	Nano-morphology characterization of organic bulk heterojunctions based on mono and bis-adduct fullerenes. Organic Electronics, 2012, 13, 1315-1321.	2.6	16
61	Characterization of polypropylene/layered silicate nanocomposites prepared by single-step method. Journal of Thermal Analysis and Calorimetry, 2010, 100, 629-639.	3.6	15
62	A MULTISCALE APPROACH TO THE REPRESENTATION OF 3D IMAGES, WITH APPLICATION TO POLYMER SOLAR CELLS. Image Analysis and Stereology, 2011, 30, 19.	0.9	8
63	Morphology and Performance of Poly(2â€methoxyâ€5â€(20â€ethylâ€hexyloxy)â€pâ€phenylenevinylene) (MEHâ€PPV):(6,6)â€phenylâ€C₆₁â€butyric Acid Methyl Ester (PCBM) Based Polymer Solar Cells. Chinese Journal of Chemistry, 2013, 31, 731-736.	4.9	8
64	Modification of EPDM with Alkylphenol Polysulfide for Use in Tire Sidewalls, 2 â€“ Mechanistic and Morphological Characterizations. Macromolecular Materials and Engineering, 2010, 295, 76-83.	3.6	6
65	Improving Polymer Based Photovoltaic Devices by Reducing the Voltage Loss at the Donor-Acceptor Interface. Materials Research Society Symposia Proceedings, 2006, 974, 1.	0.1	4
66	Influence of Porosity on the Fragmentation of Ziegler-Natta Catalyst in the Early Stages of Propylene Polymerization. E-Polymers, 2006, 6, .	3.0	4
67	Ternary Donorâ€“Insulatorâ€“Acceptor Systems for Polymer Solar Cells. Macromolecular Rapid Communications, 2012, 33, 1882-1887.	3.9	4
68	A Latexâ€<scp>B</scp>ased Route to Disperse Carbon Nanotubes in Poly(2,6â€<scp>D</scp>imethylâ€1,4â€<scp>P</scp>henylene Ether)/<scp>P</scp>olystyrene Blends. Macromolecular Materials and Engineering, 2014, 299, 228-236.	3.6	4
69	Photoconductance of Bulk Heterojunctions with Tunable Nanomorphology Consisting of P3HT and Naphthalene Diimide Siloxane Oligomers. Journal of Physical Chemistry C, 2009, 113, 7863-7869.	3.1	3
70	Surface Model for Gas-Phase Polymerizations of Ethylene and Propylene Using Supported Metallocene/Methylalumoxane Catalysts. Israel Journal of Chemistry, 2002, 42, 367-372.	2.3	2
71	Observation of shish crystal growth into nondeformed melts. Journal of Polymer Science, Part B: Polymer Physics, 2000, 38, 1183.	2.1	2
72	Organisation and melting of solution grown truncated lozenge polyethylene single crystals. E-Polymers, 2003, 3, .	3.0	1

#	Article	IF	Citations
73	Observation of shish crystal growth into nondeformed melts. , 2000, 38, 1183.		1
74	Scanning Probe Microscopy on Polymer Solar Cells. , 2008, , 183-215.		1
75	On the Importance of Morphology Control for Printable Solar Cells. Green Energy and Technology, 2011, , 227-249.	0.6	0
76	Analysis of nano-composites based on carbon nanoparticles imbedded in polymers. , 2008, , 769-770.		0