

Holger Frauenrath

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,363
citations

186265

28
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206112

48
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68
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68
docs citations

68
times ranked

3039
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced ductility in high performance polyamides due to strain-induced phase transitions. <i>Polymer</i> , 2022, 238, 124424.	3.8	3
2	Blatter-type radicals as polarizing agents for electrochemical overhauser dynamic nuclear polarization. <i>Chemical Communications</i> , 2022, 58, 689-692.	4.1	5
3	Structure-Property Relationships in Bithiophenes with Hydrogen-Bonded Substituents. <i>Chemistry - A European Journal</i> , 2021, 27, 3348-3360.	3.3	5
4	Lamellar carbon-aluminosilicate nanocomposites with macroscopic orientation. <i>Nanoscale</i> , 2021, 13, 13650-13657.	5.6	0
5	Polysiloxanes Modified with Different Types and Contents of Polar Groups: Synthesis, Structure, and Thermal and Dielectric Properties. <i>Macromolecules</i> , 2021, 54, 5737-5749.	4.8	37
6	High-performance polyamides with engineered disorder. <i>Polymer Chemistry</i> , 2021, 12, 6426-6435.	3.9	6
7	Semiaromatic Polyamides with Re-Entrant Chain Folding Templated by α -U-Turn-Repeat Units. <i>Macromolecules</i> , 2021, 54, 11170-11179.	4.8	2
8	Semiaromatic polyamides with enhanced charge carrier mobility. <i>Polymer Chemistry</i> , 2021, 12, 6914-6926.	3.9	1
9	Optical gap and fundamental gap of oligoynes and carbyne. <i>Nature Communications</i> , 2020, 11, 4797.	12.8	28
10	Long-Lived Photocharges in Supramolecular Polymers of Low-Band-Gap Chromophores. <i>Chemistry - A European Journal</i> , 2020, 26, 9506-9517.	3.3	8
11	Engineering polymers with improved charge transport properties from bithiophene-containing polyamides. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6281-6292.	5.5	5
12	Crystallization and Organic Field-Effect Transistor Performance of a Hydrogen-Bonded Quaterthiophene. <i>Chemistry - A European Journal</i> , 2020, 26, 10265-10275.	3.3	5
13	Hexayne Amphiphiles and Bolaamphiphiles. <i>Chemistry - A European Journal</i> , 2020, 26, 8907-8915.	3.3	4
14	Unusually Long-Lived Photocharges in Helical Organic Semiconductor Nanostructures. <i>ACS Nano</i> , 2018, 12, 9116-9125.	14.6	19
15	Self-Assembled Monolayers as Patterning Tool for Organic Electronic Devices. <i>Advanced Materials</i> , 2017, 29, 1605286.	21.0	72
16	Synthesis and characterization of semiaromatic polyamides comprising benzofurobenzofuran repeating units. <i>Polymer Chemistry</i> , 2017, 8, 2197-2209.	3.9	14
17	Charge separation in an acceptor-donor-acceptor triad material with a lamellar structure. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1383-1393.	5.5	8
18	High-temperature copolyamides obtained by the efficient transamidation of crystalline-crystalline polyamide blends. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	12

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19	Synthesis and Use of Reactive Molecular Precursors for the Preparation of Carbon Nanomaterials. ChemistrySelect, 2017, 2, .	1.5	0
20	Templating for hierarchical structure control in carbon materials. Nanoscale, 2016, 8, 18828-18848.	5.6	34
21	Preparation of Carbon Nanosheets at Room Temperature. Journal of Visualized Experiments, 2016, , .	0.3	0
22	Soft-landing electrospray ion beam deposition of sensitive oligoynes on surfaces in vacuum. International Journal of Mass Spectrometry, 2015, 377, 228-234.	1.5	25
23	Solubility and Crystallizability: Facile Access to Functionalized π -Conjugated Compounds with Chlorendylimide Protecting Groups. Chemistry - A European Journal, 2015, 21, 1542-1553.	3.3	10
24	Facile synthesis of oligoyne amphiphiles and their rotaxanes. Chemical Science, 2015, 6, 564-574.	7.4	52
25	Functional carbon nanosheets prepared from hexayne amphiphile monolayers at room temperature. Nature Chemistry, 2014, 6, 468-476.	13.6	97
26	A toolbox of oligopeptide-modified polymers for tailored elastomers. Nature Communications, 2014, 5, 4728.	12.8	32
27	Aggregates from Perylene Bisimide Oligopeptides as a Test Case for Giant Vibrational Circular Dichroism. Journal of Physical Chemistry B, 2014, 118, 11152-11160.	2.6	15
28	Two-Fold Odd-Even Effect in Self-Assembled Nanowires from Oligopeptide-Polymer-Substituted Perylene Bisimides. Journal of the American Chemical Society, 2014, 136, 3919-3927.	13.7	103
29	Hierarchically Structured Microfibers of π -Single Stack π -Perylene Bisimide and Quaterthiophene Nanowires. ACS Nano, 2013, 7, 8498-8508.	14.6	88
30	Droplets Out of Equilibrium. Science, 2013, 341, 243-244.	12.6	29
31	A multistep single-crystal-to-single-crystal bromodiacetylene dimerization. Nature Chemistry, 2013, 5, 327-334.	13.6	53
32	Materials Taking a Lesson from Nature. Chimia, 2013, 67, 782.	0.6	3
33	Low-temperature Preparation of Functional Carbon Nanocapsules π -Self-assembly and Carbonization of Hexayne Amphiphiles. Chimia, 2013, 67, 429-429.	0.6	0
34	Development of a robust supramolecular method to prepare well-defined nanofibrils from conjugated molecules. Chemical Science, 2012, 3, 1512.	7.4	51
35	Multi-Set Point Intermittent Contact (MUSIC) Mode Atomic Force Microscopy of Oligothiophene Fibrils. ACS Macro Letters, 2012, 1, 380-383.	4.8	21
36	Low-Temperature Preparation of Tailored Carbon Nanostructures in Water. Nano Letters, 2012, 12, 2573-2578.	9.1	34

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37	Elements for a Rational Polymer Approach towards Carbon Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6569-6571.	13.8	32
38	Carbon-Rich Nanostructures from Molecular Precursors. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1304, 1.	0.1	0
39	Nanostructured Carbonaceous Materials from Molecular Precursors. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6496-6515.	13.8	144
40	Synthesis of Diacetylene-Containing Peptide Building Blocks and Amphiphiles, Their Self-Assembly and Topochemical Polymerization in Organic Solvents. <i>Chemistry - A European Journal</i> , 2009, 15, 388-404.	3.3	66
41	Perfluorophenyl-Phenyl Interactions in the Crystallization and Topochemical Polymerization of Triacetylene Monomers. <i>Chemistry - A European Journal</i> , 2009, 15, 9105-9116.	3.3	41
42	Coordination-Driven Self-Assembly of PEO-Functionalized Perylene Bisimides: Supramolecular Diversity from a Limited Set of Molecular Building Blocks. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4480-4483.	13.8	33
43	Glycosylated Oligo(ethynylene)s via a Pd/Zn-Mediated Cross-Coupling Reaction. <i>Chimia</i> , 2009, 63, 208-210.	0.6	4
44	Chiroptical Properties of Multiple-Helical, Oligopeptide-Substituted Poly(diacetylene)s in Solution. <i>Macromolecular Rapid Communications</i> , 2008, 29, 330-339.	3.9	11
45	A General Concept for the Preparation of Hierarchically Structured Conjugated Polymers. <i>Chemistry - A European Journal</i> , 2008, 14, 2942-2955.	3.3	78
46	Molecular Level Control over Hierarchical Structure Formation and Polymerization of Oligopeptide-Polymer Conjugates. <i>Advanced Materials</i> , 2008, 20, 409-414.	21.0	46
47	Soluble Poly(diacetylene)s Using the Perfluorophenyl-Phenyl Motif as a Supramolecular Synthone. <i>Journal of the American Chemical Society</i> , 2008, 130, 11437-11445.	13.7	59
48	Consecutive Conformational Transitions and Deaggregation of Multiple-Helical Poly(diacetylene)s. <i>Nano Letters</i> , 2008, 8, 1660-1666.	9.1	33
49	A Convenient Negishi Protocol for the Synthesis of Glycosylated Oligo(ethynylene)s. <i>Organic Letters</i> , 2008, 10, 4525-4528.	4.6	44
50	Poly(diacetylene)s from Preorganized Monomers. <i>Synfacts</i> , 2008, 2008, 1273-1273.	0.0	0
51	Functional, Hierarchically Structured Poly(diacetylene)s via Supramolecular Self-Assembly. <i>Macromolecular Bioscience</i> , 2007, 7, 136-143.	4.1	29
52	1-O-Vinyl Glycosides via Tebbe Olefination, Their Use as Chiral Auxiliaries and Monomers. <i>Journal of Organic Chemistry</i> , 2006, 71, 5457-5467.	3.2	21
53	Alternating Diacetylene Copolymer Utilizing Perfluorophenyl-Phenyl Interactions. <i>Journal of the American Chemical Society</i> , 2006, 128, 5541-5547.	13.7	89
54	Topochemical Polymerization in Supramolecular Polymers of Oligopeptide-Functionalized Diacetylenes. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 5383-5386.	13.8	137

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55	Dendronized polymers – building a new bridge from molecules to nanoscopic objects. Progress in Polymer Science, 2005, 30, 325-384.	24.7	396
56	Stereospecific Polymerization of Methyl Methacrylate with Single-Component Zirconocene Complexes: Control of Stereospecificity via Catalyst Symmetry. Macromolecules, 2001, 34, 14-19.	4.8	81
57	First Synthesis of an AB Block Copolymer with Polyethylene and Poly(methyl methacrylate) Blocks Using a Zirconocene Catalyst. Macromolecular Rapid Communications, 2001, 22, 1147.	3.9	28
58	Deviation from Single-Site Behavior in Zirconocene/MAO Catalyst Systems, 1. Influence of Monomer, Catalyst, and Cocatalyst Concentration. Macromolecular Chemistry and Physics, 2001, 202, 3543-3550.	2.2	8
59	Deviation from Single-Site Behavior in Zirconocene/MAO Catalyst Systems, 2. Influence of Polymerization Temperature. Macromolecular Chemistry and Physics, 2001, 202, 3551-3559.	2.2	10
60	Polymerization of 1-hexene catalyzed by bis(cyclopentadienyl)zirconium dichloride/methylaluminumoxane; effect of temperature on the molecular weight and the microstructure of poly(1-hexene). Macromolecular Rapid Communications, 1998, 19, 391-395.	3.9	13