

# 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  
h-index

206112  
48  
g-index

68  
all docs

68  
docs citations

68  
times ranked

3039  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dendronized polymersâ€”building a new bridge from molecules to nanoscopic objects. Progress in Polymer Science, 2005, 30, 325-384.	24.7	396
2	Nanostructured Carbonaceous Materials from Molecular Precursors. Angewandte Chemie - International Edition, 2010, 49, 6496-6515.	13.8	144
3	Topochemical Polymerization in Supramolecular Polymers of Oligopeptide-Functionalized Diacetylenes. Angewandte Chemie - International Edition, 2006, 45, 5383-5386.	13.8	137
4	Two-Fold Oddâ€”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
5	Functional carbon nanosheets prepared from hexayne amphiphile monolayers at room temperature. Nature Chemistry, 2014, 6, 468-476.	13.6	97
6	Alternating Diacetylene Copolymer Utilizing Perfluorophenylâ”Phenyl Interactions. Journal of the American Chemical Society, 2006, 128, 5541-5547.	13.7	89
7	Hierarchically Structured Microfibers of â€”Single Stackâ€”Perylene Bisimide and Quaterthiophene Nanowires. ACS Nano, 2013, 7, 8498-8508.	14.6	88
8	Stereospecific Polymerization of Methyl Methacrylate with Single-Component Zirconocene Complexes:â€” Control of Stereospecificity via Catalyst Symmetry. Macromolecules, 2001, 34, 14-19.	4.8	81
9	A General Concept for the Preparation of Hierarchically Structured â€”Conjugated Polymers. Chemistry - A European Journal, 2008, 14, 2942-2955.	3.3	78
10	Selfâ€”Assembled Monolayers as Patterning Tool for Organic Electronic Devices. Advanced Materials, 2017, 29, 1605286.	21.0	72
11	Synthesis of Diacetyleneâ€”Containing Peptide Building Blocks and Amphiphiles, Their Selfâ€”Assembly and Topochemical Polymerization in Organic Solvents. Chemistry - A European Journal, 2009, 15, 388-404.	3.3	66
12	Soluble Poly(diacetylene)s Using the Perfluorophenylâ”Phenyl Motif as a Supramolecular Synthone. Journal of the American Chemical Society, 2008, 130, 11437-11445.	13.7	59
13	A multistep single-crystal-to-single-crystal bromodiacetylene dimerization. Nature Chemistry, 2013, 5, 327-334.	13.6	53
14	Facile synthesis of oligoynes amphiphiles and their rotaxanes. Chemical Science, 2015, 6, 564-574.	7.4	52
15	Development of a robust supramolecular method to prepare well-defined nanofibrils from conjugated molecules. Chemical Science, 2012, 3, 1512.	7.4	51
16	Molecular Level Control over Hierarchical Structure Formation and Polymerization of Oligopeptideâ€”Polymer Conjugates. Advanced Materials, 2008, 20, 409-414.	21.0	46
17	Aâ€”Convenientâ€”Negishiâ€”Protocolâ€”forâ€”the Synthesisâ€”ofâ€”Glycosylatedâ€”Oligo(ethynylene)s. Organic Letters, 2008, 10, 4525-4528.	4.6	44
18	Perfluorophenylâ€”Phenyl Interactions in the Crystallization and Topochemical Polymerization of Triacetylene Monomers. Chemistry - A European Journal, 2009, 15, 9105-9116.	3.3	41

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19	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
20	Low-Temperature Preparation of Tailored Carbon Nanostructures in Water. <i>Nano Letters</i> , 2012, 12, 2573-2578.	9.1	34
21	Templating for hierarchical structure control in carbon materials. <i>Nanoscale</i> , 2016, 8, 18828-18848.	5.6	34
22	Consecutive Conformational Transitions and Deaggregation of Multiple-Helical Poly(diacetylene)s. <i>Nano Letters</i> , 2008, 8, 1660-1666.	9.1	33
23	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
24	Elements for a Rational Polymer Approach towards Carbon Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6569-6571.	13.8	32
25	A toolbox of oligopeptide-modified polymers for tailored elastomers. <i>Nature Communications</i> , 2014, 5, 4728.	12.8	32
26	Functional, Hierarchically Structured Poly(diacetylene)s via Supramolecular Self-Assembly. <i>Macromolecular Bioscience</i> , 2007, 7, 136-143.	4.1	29
27	Droplets Out of Equilibrium. <i>Science</i> , 2013, 341, 243-244.	12.6	29
28	First Synthesis of an AB Block Copolymer with Polyethylene and Poly(methyl methacrylate) Blocks Using a Zirconocene Catalyst. <i>Macromolecular Rapid Communications</i> , 2001, 22, 1147.	3.9	28
29	Optical gap and fundamental gap of oligoynes and carbyne. <i>Nature Communications</i> , 2020, 11, 4797.	12.8	28
30	Soft-landing electrospray ion beam deposition of sensitive oligoynes on surfaces in vacuum. <i>International Journal of Mass Spectrometry</i> , 2015, 377, 228-234.	1.5	25
31	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
32	Multi-Set Point Intermittent Contact (MUSIC) Mode Atomic Force Microscopy of Oligothiophene Fibrils. <i>ACS Macro Letters</i> , 2012, 1, 380-383.	4.8	21
33	Unusually Long-Lived Photocharges in Helical Organic Semiconductor Nanostructures. <i>ACS Nano</i> , 2018, 12, 9116-9125.	14.6	19
34	Aggregates from Perylene Bisimide Oligopeptides as a Test Case for Giant Vibrational Circular Dichroism. <i>Journal of Physical Chemistry B</i> , 2014, 118, 11152-11160.	2.6	15
35	Synthesis and characterization of semiaromatic polyamides comprising benzofurobenzofuran repeating units. <i>Polymer Chemistry</i> , 2017, 8, 2197-2209.	3.9	14
36	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). <i>Macromolecular Rapid Communications</i> , 1998, 19, 391-395.	3.9	13

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37	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
38	Chiroptical Properties of Multiple-Helical, Oligopeptide-Substituted Poly(diacetylene)s in Solution. <i>Macromolecular Rapid Communications</i> , 2008, 29, 330-339.	3.9	11
39	Deviation from Single-Site Behavior in Zirconocene/MAO Catalyst Systems, 2. Influence of Polymerization Temperature. <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 3551-3559.	2.2	10
40	Solubility and Crystallizability: Facile Access to Functionalized $\pi$ -Conjugated Compounds with Chlorendylimide Protecting Groups. <i>Chemistry - A European Journal</i> , 2015, 21, 1542-1553.	3.3	10
41	Deviation from Single-Site Behavior in Zirconocene/MAO Catalyst Systems, 1. Influence of Monomer, Catalyst, and Cocatalyst Concentration. <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 3543-3550.	2.2	8
42	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
43	Long-Lived Photocharges in Supramolecular Polymers of Low-Band-Gap Chromophores. <i>Chemistry - A European Journal</i> , 2020, 26, 9506-9517.	3.3	8
44	High-performance polyamides with engineered disorder. <i>Polymer Chemistry</i> , 2021, 12, 6426-6435.	3.9	6
45	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
46	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
47	Structure-Property Relationships in Bithiophenes with Hydrogen-Bonded Substituents. <i>Chemistry - A European Journal</i> , 2021, 27, 3348-3360.	3.3	5
48	Blatter-type radicals as polarizing agents for electrochemical overhauser dynamic nuclear polarization. <i>Chemical Communications</i> , 2022, 58, 689-692.	4.1	5
49	Glycosylated Oligo(ethynylene)s via a Pd/Zn-Mediated Cross-Coupling Reaction. <i>Chimia</i> , 2009, 63, 208-210.	0.6	4
50	Hexayne Amphiphiles and Bolaamphiphiles. <i>Chemistry - A European Journal</i> , 2020, 26, 8907-8915.	3.3	4
51	Materials Taking a Lesson from Nature. <i>Chimia</i> , 2013, 67, 782.	0.6	3
52	Enhanced ductility in high performance polyamides due to strain-induced phase transitions. <i>Polymer</i> , 2022, 238, 124424.	3.8	3
53	Semiaromatic Polyamides with Re-Entrant Chain Folding Templated by $\alpha$ -Turn-Repeat Units. <i>Macromolecules</i> , 2021, 54, 11170-11179.	4.8	2
54	Semiaromatic polyamides with enhanced charge carrier mobility. <i>Polymer Chemistry</i> , 2021, 12, 6914-6926.	3.9	1

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55	Poly(diacetylene)s from Preorganized Monomers. <i>Synfacts</i> , 2008, 2008, 1273-1273.	0.0	0
56	Carbon-Rich Nanostructures from Molecular Precursors. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1304, 1.	0.1	0
57	Low-temperature Preparation of Functional Carbon Nanocapsules <I>via</I> Self-assembly and Carbonization of Hexayne Amphiphiles. <i>Chimia</i> , 2013, 67, 429-429.	0.6	0
58	Preparation of Carbon Nanosheets at Room Temperature. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	0
59	Synthesis and Use of Reactive Molecular Precursors for the Preparation of Carbon Nanomaterials. <i>ChemistrySelect</i> , 2017, 2, .	1.5	0
60	Lamellar carbon-aluminosilicate nanocomposites with macroscopic orientation. <i>Nanoscale</i> , 2021, 13, 13650-13657.	5.6	0