

Felix Freire

List of Publications by Year in descending order

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81
papers

2,954
citations

136950

32
h-index

189892

50
g-index

88
all docs

88
docs citations

88
times ranked

1751
citing authors

#	ARTICLE	IF	CITATIONS
1	Supramolecular Assemblies from Poly(phenylacetylene)s. <i>Chemical Reviews</i> , 2016, 116, 1242-1271.	47.7	233
2	Determining the Absolute Stereochemistry of Secondary/Secondary Diols by ¹ H NMR: A Basis and Applications. <i>Journal of Organic Chemistry</i> , 2005, 70, 3778-3790.	3.2	154
3	Chiral Amplification and Helical Sense Tuning by Mono- and Divalent Metals on Dynamic Helical Polymers. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11692-11696.	13.8	150
4	Controlled modulation of the helical sense and the elongation of poly(phenylacetylene)s by polar and donor effects. <i>Chemical Science</i> , 2013, 4, 2735.	7.4	111
5	On the Importance of Carbohydrate-Aromatic Interactions for the Molecular Recognition of Oligosaccharides by Proteins: NMR Studies of the Structure and Binding Affinity of AcAMP2-like Peptides with Non-Natural Naphthyl and Fluoroaromatic Residues. <i>Chemistry - A European Journal</i> , 2005, 11, 7060-7074.	3.3	110
6	Nanospheres with Tunable Size and Chirality from Helical Polymer-Metal Complexes. <i>Journal of the American Chemical Society</i> , 2012, 134, 19374-19383.	13.7	99
7	Architecture of Chiral Poly(phenylacetylene)s: From Compressed/Highly Dynamic to Stretched/Quasi-Static Helices. <i>Journal of the American Chemical Society</i> , 2016, 138, 9620-9628.	13.7	93
8	Three-State Switchable Chiral Stationary Phase Based on Helicity Control of an Optically Active Poly(phenylacetylene) Derivative by Using Metal Cations in the Solid State. <i>Journal of the American Chemical Society</i> , 2019, 141, 8592-8598.	13.7	82
9	The ON/OFF switching by metal ions of the "Sergeants and Soldiers" chiral amplification effect on helical poly(phenylacetylene)s. <i>Chemical Science</i> , 2014, 5, 2170-2176.	7.4	71
10	Nanospheres, Nanotubes, Toroids, and Gels with Controlled Macroscopic Chirality. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13720-13724.	13.8	66
11	A Stimuli-Responsive Macromolecular Gear: Interlocking Dynamic Helical Polymers with Foldamers. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8616-8622.	13.8	59
12	The leading role of cation-π interactions in polymer chemistry: the control of the helical sense in solution. <i>Polymer Chemistry</i> , 2015, 6, 4725-4733.	3.9	55
13	Chiral-to-Chiral Communication in Polymers: A Unique Approach To Control Both Helical Sense and Chirality at the Periphery. <i>Journal of the American Chemical Society</i> , 2018, 140, 12239-12246.	13.7	47
14	Chiral Conflict as a Method to Create Stimuli-Responsive Materials Based on Dynamic Helical Polymers. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13365-13369.	13.8	45
15	The Pattern of Distribution of Amino Groups Modulates the Structure and Dynamics of Natural Aminoglycosides: Implications for RNA Recognition. <i>Journal of the American Chemical Society</i> , 2007, 129, 2849-2865.	13.7	44
16	Predicting the Helical Sense of Poly(phenylacetylene)s from their Electron Circular Dichroism Spectra. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3666-3670.	13.8	44
17	Chiral Nanostructures from Helical Copolymer-Metal Complexes: Tunable Cation-π Interactions and Sergeants and Soldiers Effect. <i>Small</i> , 2016, 12, 238-244.	10.0	43
18	Chiral nanostructure in polymers under different deposition conditions observed using atomic force microscopy of monolayers: poly(phenylacetylene)s as a case study. <i>Chemical Communications</i> , 2017, 53, 481-492.	4.1	43

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19	Reversible assembly of enantiomeric helical polymers: from fibers to gels. <i>Chemical Science</i> , 2015, 6, 246-253.	7.4	42
20	Unexpected Chiroptical Thermoresponsive Behavior of Helical Poly(phenylacetylene)s Bearing Elastin-Based Side Chains. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11420-11425.	13.8	41
21	In tube determination of the absolute configuration of $\hat{1}\pm$ - and $\hat{1}^2$ -hydroxy acids by NMR via chiral BINOL borates. <i>Chemical Communications</i> , 2008, , 4147.	4.1	40
22	Poly(phenylacetylene) Amines: A General Route to Water-Soluble Helical Polyamines. <i>Chemistry of Materials</i> , 2018, 30, 6908-6914.	6.7	40
23	The Prediction of the Absolute Stereochemistry of Primary and Secondary 1,2-Diols by ^1H NMR Spectroscopy: Principles and Applications. <i>Chemistry - A European Journal</i> , 2005, 11, 5509-5522.	3.3	39
24	Multistate Chiroptical Switch Triggered by Stimuli-Responsive Chiral Teleinduction. <i>Chemistry of Materials</i> , 2018, 30, 2493-2497.	6.7	39
25	Chiral Coalition in Helical Sense Enhancement of Copolymers: The Role of the Absolute Configuration of Comonomers. <i>Journal of the American Chemical Society</i> , 2018, 140, 667-674.	13.7	39
26	Chiral Overpass Induction in Dynamic Helical Polymers Bearing Pendant Groups with Two Chiral Centers. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4537-4543.	13.8	39
27	Macrocyclic Design Strategies for Small, Stable Parallel $\hat{1}^2$ -Sheet Scaffolds. <i>Journal of the American Chemical Society</i> , 2009, 131, 7970-7972.	13.7	38
28	Chiral 1,2-Diols: The Assignment of Their Absolute Configuration by NMR Made Easy. <i>Organic Letters</i> , 2010, 12, 208-211.	4.6	36
29	A general route to chiral nanostructures from helical polymers: P/M switch via dynamic metal coordination. <i>Polymer Chemistry</i> , 2017, 8, 3740-3745.	3.9	36
30	The role of the secondary structure of helical poly(phenylacetylene)s in the formation of nanoparticles from polymer-metal complexes (HPMCs). <i>Nanoscale</i> , 2017, 9, 17752-17757.	5.6	35
31	Helical sense selective domains and enantiomeric superhelices generated by Langmuir-Schaefer deposition of an axially racemic chiral helical polymer. <i>Nanoscale</i> , 2016, 8, 3362-3367.	5.6	34
32	Diacid Linkers That Promote Parallel $\hat{1}^2$ -Sheet Secondary Structure in Water. <i>Journal of the American Chemical Society</i> , 2008, 130, 7839-7841.	13.7	32
33	Decoding the ECD Spectra of Poly(phenylacetylene)s: Structural Significance. <i>ACS Omega</i> , 2019, 4, 5233-5240.	3.5	32
34	Challenging the absence of observable hydrogens in the assignment of absolute configurations by NMR: application to chiral primary alcohols. <i>Chemical Communications</i> , 2007, , 1456-1458.	4.1	31
35	The Competitive Aggregation Pathway of an Asymmetric Chiral Oligo(phenyleneethynylene) Towards the Formation of Individual P and M Supramolecular Helical Polymers. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9919-9924.	13.8	31
36	Multipodal dynamic coordination involving cation interactions to control the structure of helical polymers. <i>Chemical Communications</i> , 2017, 53, 8573-8576.	4.1	30

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37	The Assignment of the Absolute Configuration of 1,2-Diols by Low-Temperature NMR of a Single MPA Derivative. <i>Organic Letters</i> , 2005, 7, 4855-4858.	4.6	28
38	Sequential Induction of Chirality in Helical Polymers: From the Stereocenter to the Achiral Solvent. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2266-2270.	4.6	28
39	Chiral information harvesting in helical poly(acetylene) derivatives using oligo(<i>p</i> -phenyleneethynylene)s as spacers. <i>Chemical Science</i> , 2020, 11, 7182-7187.	7.4	28
40	Simultaneous Adjustment of Size and Helical Sense of Chiral Nanospheres and Nanotubes Derived from an Axially Racemic Poly(phenylacetylene). <i>Small</i> , 2017, 13, 1602398.	10.0	26
41	From Sergeants and Soldiers to Chiral Conflict Effects in Helical Polymers by Acting on the Conformational Composition of the Comonomers. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23724-23730.	13.8	26
42	Relative and Absolute Stereochemistry of Secondary/Secondary Diols: A Low-Temperature ¹ H NMR of Their bis-MPA Esters. <i>Journal of Organic Chemistry</i> , 2007, 72, 2297-2301.	3.2	25
43	Macromolecular helicity control of poly(phenyl isocyanate)s with a single stimuli-responsive chiral switch. <i>Chemical Communications</i> , 2019, 55, 7906-7909.	4.1	25
44	Merging Supramolecular and Covalent Helical Polymers: Four Helices Within a Single Scaffold. <i>Journal of the American Chemical Society</i> , 2021, 143, 20962-20969.	13.7	25
45	The ¹ H NMR Method for the Determination of the Absolute Configuration of 1,2,3-prim,sec,sec-Triols. <i>Organic Letters</i> , 2006, 8, 4449-4452.	4.6	24
46	A simple NMR analysis of the protonation equilibrium that accompanies aminoglycoside recognition: Dramatic alterations in the neomycin-B protonation state upon binding to a 23-mer RNA aptamer. <i>Chemical Communications</i> , 2007, , 174-176.	4.1	23
47	Thermodynamic Analysis of β -Sheet Secondary Structure by Backbone Thioester Exchange. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7056-7059.	13.8	23
48	Stimuli-Directed Colorimetric Interconversion of Helical Polymers Accompanied by a Tunable Self-Assembly Process. <i>Small</i> , 2019, 15, 1805413.	10.0	22
49	Raman Optical Activity (ROA) as a New Tool to Elucidate the Helical Structure of Poly(phenylacetylene)s. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9080-9087.	13.8	22
50	Polymeric Helical Structures À la Carte by Rational Design of Monomers. <i>Macromolecules</i> , 2020, 53, 3182-3193.	4.8	22
51	Impact of Strand Length on the Stability of Parallel β -Sheet Secondary Structure. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8735-8738.	13.8	21
52	Helical Polymer-Metal Complexes: The Role of Metal Ions on the Helicity and the Supramolecular Architecture of Poly(phenylacetylene)s. <i>Advances in Polymer Science</i> , 2013, , 123-140.	0.8	20
53	Chiral Conflict as a Method to Create Stimuli-Responsive Materials Based on Dynamic Helical Polymers. <i>Angewandte Chemie</i> , 2019, 131, 13499-13503.	2.0	20
54	A Stimuli-Responsive Macromolecular Gear: Interlocking Dynamic Helical Polymers with Foldamers. <i>Angewandte Chemie</i> , 2020, 132, 8694-8700.	2.0	20

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55	Absolute configuration of amino alcohols by ¹ H-NMR. <i>Chemical Communications</i> , 2005, , 5554.	4.1	19
56	The Stereochemistry of 1,2,3-Triols Revealed by ¹ H-NMR Spectroscopy: Principles and Applications. <i>Chemistry - A European Journal</i> , 2009, 15, 11963-11975.	3.3	19
57	Photochemical Electrocyclization of Poly(phenylacetylene)s: Unwinding Helices to Elucidate their 3D Structure in Solution. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8095-8103.	13.8	19
58	Dynamic Chiral PPA-AgNP Nanocomposites: Aligned Silver Nanoparticles Decorating Helical Polymers. <i>Chemistry of Materials</i> , 2021, 33, 4805-4812.	6.7	18
59	Dissymmetric Chiral Poly(diphenylacetylene)s: Secondary Structure Elucidation and Dynamic Luminescence. <i>Angewandte Chemie - International Edition</i> , 2022, , .	13.8	18
60	Unexpected Chirothermoresponsive Behavior of Helical Poly(phenylacetylene)s Bearing Elastin-Based Side Chains. <i>Angewandte Chemie</i> , 2017, 129, 11578-11583.	2.0	17
61	Chiral gold-PPA nanocomposites with tunable helical sense and morphology. <i>Nanoscale Horizons</i> , 2020, 5, 495-500.	8.0	17
62	Predicting the Helical Sense of Poly(phenylacetylene)s from their Electron Circular Dichroism Spectra. <i>Angewandte Chemie</i> , 2018, 130, 3728-3732.	2.0	16
63	Tuning the helical sense and elongation of polymers through the combined action of the two components of tetraalkylammonium-anion salts. <i>Giant</i> , 2021, 7, 100068.	5.1	16
64	Chiral Overpass Induction in Dynamic Helical Polymers Bearing Pendant Groups with Two Chiral Centers. <i>Angewandte Chemie</i> , 2020, 132, 4567-4573.	2.0	13
65	Raman Optical Activity (ROA) as a New Tool to Elucidate the Helical Structure of Poly(phenylacetylene)s. <i>Angewandte Chemie</i> , 2020, 132, 9165-9172.	2.0	13
66	Elucidating the Supramolecular Copolymerization of N- and C-Centered Benzene-1,3,5-Tricarboxamides: The Role of Parallel and Antiparallel Packing of Amide Groups in the Copolymer Microstructure. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	13
67	Helical Colorimetric Sensors: Stimuli-Directed Colorimetric Interconversion of Helical Polymers Accompanied by a Tunable Self-Assembly Process (Small 13/2019). <i>Small</i> , 2019, 15, 1970070.	10.0	10
68	Photochemical Electrocyclization of Poly(phenylacetylene)s: Unwinding Helices to Elucidate their 3D Structure in Solution. <i>Angewandte Chemie</i> , 2021, 133, 8176-8184.	2.0	8
69	Photostability and Dynamic Helical Behavior in Chiral Poly(phenylacetylene)s with a Preferred Screw Sense. <i>Angewandte Chemie - International Edition</i> , 0, , .	13.8	8
70	Thermodynamic Analysis of β -Sheet Secondary Structure by Backbone Thioester Exchange. <i>Angewandte Chemie</i> , 2007, 119, 7186-7189.	2.0	7
71	Macrocyclic Design Strategies for Small, Stable Parallel β -Sheet Scaffolds. <i>Journal of the American Chemical Society</i> , 2011, 133, 12318-12318.	13.7	6
72	From Sergeants and Soldiers to Chiral Conflict Effects in Helical Polymers by Acting on the Conformational Composition of the Comonomers. <i>Angewandte Chemie</i> , 2020, 132, 23932-23938.	2.0	6

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73	Dissymmetric Chiral Poly(diphenylacetylene)s: Secondary Structure Elucidation and Dynamic Luminescence. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	5
74	The Role of Polymer–AuNP Interaction in the Stimuli–Response Properties of PPA–AuNP Nanocomposites. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100616.	3.9	4
75	From Oligo(Phenyleneethynylene) Monomers to Supramolecular Helices: The Role of Intermolecular Interactions in Aggregation. <i>Molecules</i> , 2021, 26, 3530.	3.8	2
76	Photostability and Dynamic Helical Behavior in Chiral Poly(phenylacetylene)s with a Preferred Screw–Sense. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	2
77	The Competitive Aggregation Pathway of an Asymmetric Chiral Oligo(phenyleneethynylene) Towards the Formation of Individual <i>P</i> and <i>M</i> Supramolecular Helical Polymers. <i>Angewandte Chemie</i> , 2021, 133, 10007-10012.	2.0	1
78	The Assignment of the Absolute Configuration of 1,2-Diols by Low-Temperature NMR of a Single MPA Derivative.. <i>ChemInform</i> , 2006, 37, no.	0.0	0
79	Enantiomeric Nanostructures: Chiral Nanostructures from Helical Copolymer-Metal Complexes: Tunable Cation–Interactions and Sergeants and Soldiers Effect (<i>Small</i> 2/2016). <i>Small</i> , 2016, 12, 237-237.	10.0	0
80	Titelbild: Photochemical Electrocyclization of Poly(phenylacetylene)s: Unwinding Helices to Elucidate their 3D Structure in Solution (<i>Angew. Chem.</i> 15/2021). <i>Angewandte Chemie</i> , 2021, 133, 8061-8061.	2.0	0
81	Titelbild: Dissymmetric Chiral Poly(diphenylacetylene)s: Secondary Structure Elucidation and Dynamic Luminescence (<i>Angew. Chem.</i> 9/2022). <i>Angewandte Chemie</i> , 2022, 134, .	2.0	0