Jean-Francois Lutz

List of Publications by Year
in descending order

200	21,353	13827 67	9311 143
papers	citations	h-index	g-index

233	233	233	12471
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	1,3-Dipolar Cycloadditions of Azides and Alkynes: A Universal Ligation Tool in Polymer and Materials Science. Angewandte Chemie - International Edition, 2007, 46, 1018-1025.	7.2	1,413
2	Point by Point Comparison of Two Thermosensitive Polymers Exhibiting a Similar LCST:Â Is the Age of Poly(NIPAM) Over?. Journal of the American Chemical Society, 2006, 128, 13046-13047.	6.6	1,125
3	Sequence-Controlled Polymers. Science, 2013, 341, 1238149.	6.0	1,097
4	Polymerization of oligo(ethylene glycol) (meth)acrylates: Toward new generations of smart biocompatible materials. Journal of Polymer Science Part A, 2008, 46, 3459-3470.	2.5	1,079
5	Preparation of Ideal PEG Analogues with a Tunable Thermosensitivity by Controlled Radical Copolymerization of 2-(2-Methoxyethoxy)ethyl Methacrylate and Oligo(ethylene glycol) Methacrylate. Macromolecules, 2006, 39, 893-896.	2.2	792
6	From precision polymers to complex materials and systems. Nature Reviews Materials, 2016, 1, .	23.3	725
7	Modern trends in polymer bioconjugates design. Progress in Polymer Science, 2008, 33, 1-39.	11.8	500
8	Efficient construction of therapeutics, bioconjugates, biomaterials and bioactive surfaces using azideâ€“alkyne â€œclickâ€•chemistry. Advanced Drug Delivery Reviews, 2008, 60, 958-970.	6.6	495
9	Sequence control in polymer synthesis. Chemical Society Reviews, 2009, 38, 3383.	18.7	456
10	About the Phase Transitions in Aqueous Solutions of Thermoresponsive Copolymers and Hydrogels Based on 2-(2-methoxyethoxy)ethyl Methacrylate and Oligo(ethylene glycol) Methacrylate. Macromolecules, 2007, 40, 2503-2508.	2.2	437
11	Sequence-controlled polymerizations: the next Holy Grail in polymer science?. Polymer Chemistry, 2010, 1, 55.	1.9	389
12	Thermoâ€Switchable Materials Prepared Using the OEGMAâ€Platform. Advanced Materials, 2011, 23, 2237-2243.	11.1	378
13	Single-chain technology using discrete synthetic macromolecules. Nature Chemistry, 2011, 3, 917-924.	6.6	348
14	Controlled Cell Adhesion on PEGâ€Based Switchable Surfaces. Angewandte Chemie - International Edition, 2008, 47, 5666-5668.	7.2	347
15	A Facile Procedure for Controlling Monomer Sequence Distribution in Radical Chain Polymerizations. Journal of the American Chemical Society, 2007, 129, 9542-9543.	6.6	304
16	Copperâ€Free Azideâ€“Alkyne Cycloadditions: New Insights and Perspectives. Angewandte Chemie - International Edition, 2008, 47, 2182-2184.	7.2	301
17	Multicompartment Micelles Formed by Self-Assembly of Linear ABC Triblock Copolymers in Aqueous Medium. Angewandte Chemie - International Edition, 2005, 44, 5262-5265.	7.2	285
18	Combining Atom Transfer Radical Polymerization and Click Chemistry: A Versatile Method for the Preparation of End-Functional Polymers. Macromolecular Rapid Communications, 2005, 26, 514-518.	2.0	277

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19	Biocompatible, Thermoresponsive, and Biodegradable:â€‰ Simple Preparation of â€œAll-in-Oneâ€•Biorelevant Polymers. Macromolecules, 2007, 40, 8540-8543.	2.2	274
20	Stereoblock Copolymers and Tacticity Control in Controlled/Living Radical Polymerization. Journal of the American Chemical Society, 2003, 125, 6986-6993.	6.6	264
21	Combining ATRP and â€œClickâ€•Chemistry:Â a Promising Platform toward Functional Biocompatible Polymers and Polymer Bioconjugates. Macromolecules, 2006, 39, 6376-6383.	2.2	264
22	Design and synthesis of digitally encoded polymers that can be decoded and erased. Nature Communications, 2015, 6, 7237.	5.8	260
23	One-Pot Synthesis of PEGylated Ultrasmall Iron-Oxide Nanoparticles and Their in Vivo Evaluation as Magnetic Resonance Imaging Contrast Agents. Biomacromolecules, 2006, 7, 3132-3138.	2.6	243
24	Controlled folding of synthetic polymer chains through the formation of positionable covalent bridges. Nature Chemistry, 2011, 3, 234-238.	6.6	243
25	Information-containing macromolecules. Nature Chemistry, 2014, 6, 455-456.	6.6	189
26	Synthesis of Non-Natural Sequence-Encoded Polymers Using Phosphoramidite Chemistry. Journal of the American Chemical Society, 2015, 137, 5629-5635.	6.6	180
27	Design, Synthesis, and Aqueous Aggregation Behavior of Nonionic Single and Multiple Thermoresponsive Polymers. Langmuir, 2007, 23, 84-93.	1.6	179
28	Ultra-precise insertion of functional monomers in chain-growth polymerizations. Nature Communications, 2012, 3, .	5.8	171
29	Coding Macromolecules: Inputting Information in Polymers Using Monomer-Based Alphabets. Macromolecules, 2015, 48, 4759-4767.	2.2	171
30	Liquid-Phase Synthesis of Block Copolymers Containing Sequence-Ordered Segments. Journal of the American Chemical Society, 2009, 131, 9195-9197.	6.6	169
31	Nuclear magnetic resonance monitoring of chain-end functionality in the atom transfer radical polymerization of styrene. Journal of Polymer Science Part A, 2005, 43, 897-910.	2.5	168
32	Defining the Field of Sequenceâ€Controlled Polymers. Macromolecular Rapid Communications, 2017, 38, 1700582.	2.0	164
33	Reading Polymers: Sequencing of Natural and Synthetic Macromolecules. Angewandte Chemie - International Edition, 2014, 53, 13010-13019.	7.2	152
34	Multicompartment Micelles: Has the Long-Standing Dream Become a Reality?. Macromolecular Chemistry and Physics, 2005, 206, 813-817.	1.1	149
35	Living Radical Polymerization: Use of an Excess of Nitroxide as a Rate Moderator. Macromolecules, 2001, 34, 8866-8871.	2.2	141
36	Writing on Polymer Chains. Accounts of Chemical Research, 2013, 46, 2696-2705.	7.6	141

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37	Synthesis of Monodisperse Sequence-Coded Polymers with Chain Lengths above DP100. ACS Macro Letters, 2015, 4, 1077-1080.	2.3	141
38	A controlled sequence of events. Nature Chemistry, 2010, 2, 84-85.	6.6	137
39	Synthesis of Well-Defined Alternating Copolymers by Controlled/Living Radical Polymerization in the Presence of Lewis Acids. Macromolecules, 2003, 36, 3136-3145.	2.2	135
40	Well-Defined Uncharged Polymers with a Sharp UCST in Water and in Physiological Milieu. Macromolecules, 2011, 44, 413-415.	2.2	131
41	Tailored Polymer Microstructures Prepared by Atom Transfer Radical Copolymerization of Styrene and Nâ€substituted Maleimides. Macromolecular Rapid Communications, 2011, 32, 127-135.	2.0	130
42	Solution self-assembly of tailor-made macromolecular building blocks prepared by controlled radical polymerization techniques. Polymer International, 2006, 55, 979-993.	1.6	129
43	Development of a Library of Nâ€Substituted Maleimides for the Local Functionalization of Linear Polymer Chains. Chemistry - A European Journal, 2008, 14, 10949-10957.	1.7	118
44	Block and random copolymers as surfactants for dispersion polymerization. I. Synthesis via atom transfer radical polymerization and ring-opening polymerization. Journal of Polymer Science Part A, 2005, 43, 1498-1510.	2.5	111
45	Easy Access to Bioactive Peptideâ^'Polymer Conjugates via RAFT. Macromolecules, 2008, 41, 1073-1075.	2.2	109
46	Chemoselective Synthesis of Uniform Sequence-Coded Polyurethanes and Their Use as Molecular Tags. CheM, 2016, 1, 114-126.	5.8	108
47	Synthesis of Molecularly Encoded Oligomers Using a Chemoselective â€œAB + CDâ€•Iterative Approach. Macromolecular Rapid Communications, 2014, 35, 141-145.	2.0	105
48	Orthogonal Synthesis of â€œEasy-to-Readâ€•Information-Containing Polymers Using Phosphoramidite and Radical Coupling Steps. Journal of the American Chemical Society, 2016, 138, 9417-9420.	6.6	104
49	Modular chemical tools for advanced macromolecular engineering. Polymer, 2008, 49, 817-824.	1.8	101
50	Controlled/Living Radical Polymerization of Methacrylic Monomers in the Presence of Lewis Acids: Influence on Tacticity. Macromolecular Rapid Communications, 2004, 25, 486-492.	2.0	100
51	Kinetic modeling of the chain-end functionality in atom transfer radical polymerization. Macromolecular Chemistry and Physics, 2002, 203, 1385-1395.	1.1	99
52	PEG-based thermogels: Applicability in physiological media. Journal of Controlled Release, 2009, 140, 224-229.	4.8	97
53	Mass spectrometry sequencing of long digital polymers facilitated by programmed inter-byte fragmentation. Nature Communications, 2017, 8, 967.	5.8	96
54	Facile Synthesis of Functional Periodic Copolymers: A Step toward Polymer-Based Molecular Arrays.. Macromolecules, 2010, 43, 44-50.	2.2	92

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55	Compartmentalization of Single Polymer Chains by Stepwise Intramolecular Cross-Linking of Sequence-Controlled Macromolecules. Journal of the American Chemical Society, 2014, 136, 12888-12891.	6.6	92
56	Precision Synthesis of Biodegradable Polymers. Angewandte Chemie - International Edition, 2011, 50, 9244-9246.	7.2	91
57	Fabrication of Colloidal Stable, Thermosensitive, and Biocompatible Magnetite Nanoparticles and Study of Their Reversible Agglomeration in Aqueous Milieu. Chemistry of Materials, 2009, 21, 1906-1914.	3.2	90
58	Thermogelation of PEG-Based Macromolecules of Controlled Architecture. Macromolecules, 2009, 42, 33-36.	2.2	90
59	Design of Oligo(ethylene glycol)-Based Thermoresponsive Polymers: an Optimization Study. Designed Monomers and Polymers, 2009, 12, 343-353.	0.7	87
60	Synthesis of Monodisperse Sequenceâ€Defined Polymers Using Protectingâ€Groupâ€Free Iterative Strategies. Macromolecular Chemistry and Physics, 2015, 216, 1498-1506.	1.1	85
61	Preparation and characterization of graft terpolymers with controlled molecular structure. Journal of Polymer Science Part A, 2004, 42, 1939-1952.	2.5	82
62	Synthesis of Well-Defined Alternating Copolymers Poly(methyl methacrylate-alt-styrene) by RAFT Polymerization in the Presence of Lewis Acid. Macromolecules, 2002, 35, 2448-2451.	2.2	79
63	Metal-Free â€œClickâ€•Chemistry: Efficient Polymer Modification via 1,3-Dipolar Cycloaddition of Nitrile Oxides and Alkynes. Macromolecules, 2009, 42, 5411-5413.	2.2	75
64	Smart bioactive surfaces. Soft Matter, 2010, 6, 705-713.	1.2	72
65	'Click' Bioconjugation of a Well-Defined Synthetic Polymer and a Protein Transduction Domain. Australian Journal of Chemistry, 2007, 60, 410.	0.5	70
66	The Next 100 Years of Polymer Science. Macromolecular Chemistry and Physics, 2020, 221, 2000216.	1.1	69
67	The Persistent Radical Effect in Nitroxide Mediated Polymerization: Experimental Validity. Macromolecular Rapid Communications, 2001, 22, 189-193.	2.0	68
68	Smart PEGylation of Trypsin. Biomacromolecules, 2010, 11, 2130-2135.	2.6	67
69	Coding in 2D: Using Intentional Dispersity to Enhance the Information Capacity of Sequenceâ€Coded Polymer Barcodes. Angewandte Chemie - International Edition, 2016, 55, 10722-10725.	7.2	67
70	Influence of Strong Electron-Donor Monomers in Sequence-Controlled Polymerizations. ACS Macro Letters, 2012, 1, 589-592.	2.3	66
71	Polymerâ€Chain Encoding: Synthesis of Highly Complex Monomer Sequence Patterns by Using Automated Protocols. Angewandte Chemie - International Edition, 2012, 51, 12254-12257.	7.2	66
72	Synthesis of Singleâ€Chain Sugar Arrays. Angewandte Chemie - International Edition, 2013, 52, 2335-2339.	7.2	66

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73	Preparation by controlled radical polymerization and self-assembly via base-recognition of synthetic polymers bearing complementary nucleobases. Journal of Polymer Science Part A, 2005, 43, 4805-4818.	2.5	65
74	Anionic Polymerization of Phenyl Glycidyl Ether in Miniemulsion. Macromolecules, 2000, 33, 7730-7736.	2.2	64
75	Thermoresponsive PEG-Based Polymer Layers: Surface Characterization with AFM Force Measurements. Langmuir, 2010, 26, 3462-3467.	1.6	64
76	Controlled folding of polystyrene single chains: design of asymmetric covalent bridges. Polymer Chemistry, 2012, 3, 1796-1802.	1.9	62
77	MS/MS Sequencing of Digitally Encoded Poly(alkoxyamine amide)s. Macromolecules, 2015, 48, 4319-4328.	2.2	62
78	Characterization of Tailor-Made Copolymers of Oligo(ethylene glycol) Methyl Ether Methacrylate and N,N-Dimethylaminoethyl Methacrylate as Nonviral Gene Transfer Agents: Influence of Macromolecular Structure on Gene Vector Particle Properties and Transfection Efficiency. Biomacromolecules, 2010, 11, 39-50.	2.6	61
79	Aperiodic Copolymers. ACS Macro Letters, 2014, 3, 1020-1023.	2.3	60
80	DNA-like â€œMeltingâ€•of Adenine- and Thymine-Functionalized Synthetic Copolymers. Macromolecules, 2005, 38, 8124-8126.	2.2	58
81	Microstructure Control: An Underestimated Parameter in Recent Polymer Design. Macromolecular Chemistry and Physics, 2013, 214, 135-142.	1.1	58
82	Use of an Immobilized/Soluble Hybrid ATRP Catalyst System for the Preparation of Block Copolymers, Random Copolymers, and Polymers with High Degree of Chain End Functionality. Macromolecules, 2003, 36, 1075-1082.	2.2	57
83	Preparation of Well-Defined Diblock Copolymers with Short Polypeptide Segments by Polymerization ofN-Carboxy Anhydrides. Macromolecular Rapid Communications, 2005, 26, 23-28.	2.0	57
84	Aerolysin nanopores decode digital information stored in tailored macromolecular analytes. Science Advances, 2020, 6, .	4.7	57
85	Assembly and Degradation of Lowâ€Fouling Clickâ€Functionalized Poly(ethylene glycol)â€Based Multilayer Films and Capsules. Small, 2011, 7, 1075-1085.	5.2	55
86	Identification-Tagging of Methacrylate-Based Intraocular Implants Using Sequence Defined Polyurethane Barcodes. Advanced Functional Materials, 2017, 27, 1604595.	7.8	53
87	Complex single-chain polymer topologies locked by positionable twin disulfide cyclic bridges. Chemical Communications, 2014, 50, 1570.	2.2	52
88	Model-Based Design To Push the Boundaries of Sequence Control. Macromolecules, 2016, 49, 9336-9344.	2.2	51
89	Photo-editable macromolecular information. Nature Communications, 2019, 10, 3774.	5.8	51
90	Controlled Positioning of Activated Ester Moieties on Wellâ€Defined Linear Polymer Chains. Macromolecular Rapid Communications, 2012, 33, 54-60.	2.0	50

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91	Preparation of Informationâ€Containing Macromolecules by Ligation of Dyadâ€Encoded Oligomers. Chemistry - A European Journal, 2015, 21, 11961-11965.	1.7	50
92	MS/MS Digital Readout: Analysis of Binary Information Encoded in the Monomer Sequences of Poly(triazole amide)s. Analytical Chemistry, 2016, 88, 3715-3722.	3.2	50
93	A Simple Postâ€Polymerization Modification Method for Controlling Sideâ€Chain Information in Digital Polymers. Angewandte Chemie - International Edition, 2017, 56, 7297-7301.	7.2	50
94	N-tert-Butyl-1-diethylphosphono-2,2-dimethylpropyl nitroxide as counter radical in the controlled free radical polymerization of styrene: kinetic aspects. Macromolecular Chemistry and Physics, 2000, 201, 662-669.	1.1	49
95	Abiotic Sequenceâ€Coded Oligomers as Efficient Inâ€...Vivo Taggants for the Identification of Implanted Materials. Angewandte Chemie - International Edition, 2018, 57, 10574-10578.	7.2	48
96	Well-defined synthetic polymers with a protein-like gelation behavior in water. Chemical Communications, 2010, 46, 4517.	2.2	47
97	PEGylated Chromatography: Efficient Bioseparation on Silica Monoliths Grafted with Smart Biocompatible Polymers. ACS Applied Materials & Interfaces, 2009, 1, 1869-1872.	4.0	45
98	Catalytic accordions. Nature, 2011, 473, 40-41.	13.7	45
99	Convergent synthesis of digitally-encoded poly(alkoxyamine amide)s. Chemical Communications, 2015, 51, 15677-15680.	2.2	44
100	Cleavable Binary Dyads: Simplifying Data Extraction and Increasing Storage Density in Digital Polymers. Angewandte Chemie - International Edition, 2018, 57, 6266-6269.	7.2	44
101	Synthesis and Properties of Copolymers with Tailored Sequence Distribution by Controlled/Living Radical Polymerization. ACS Symposium Series, 2003, , 268-282.	0.5	43
102	Monitoring cell detachment on PEG-based thermoresponsive surfaces using TIRF microscopy. Soft Matter, 2010, 6, 4262.	1.2	43
103	PEGylation Improves Nanoparticle Formation and Transfection Efficiency of Messenger RNA. Pharmaceutical Research, 2011, 28, 2223-2232.	1.7	43
104	MS-DECODER: Milliseconds Sequencing of Coded Polymers. Macromolecules, 2017, 50, 8290-8296.	2.2	43
105	2D Sequenceâ€Coded Oligourethane Barcodes for Plastic Materials Labeling. Macromolecular Rapid Communications, 2017, 38, 1700426.	2.0	43
106	Tuning the lower critical solution temperature of thermoresponsive polymers by biospecific recognition. Polymer Chemistry, 2011, 2, 1486.	1.9	41
107	Synthesis and Characterization of Sequence-Controlled Semicrystalline Comb Copolymers: Influence of Primary Structure on Materials Properties. Macromolecules, 2014, 47, 1570-1577.	2.2	41
108	100th Anniversary of Macromolecular Science Viewpoint: Toward Artificial Life-Supporting Macromolecules. ACS Macro Letters, 2020, 9, 185-189.	2.3	40

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109	High-Capacity Digital Polymers: Storing Images in Single Molecules. Macromolecules, 2020, 53, 4022-4029.	2.2	39
110	Properties of well-defined alternating and random copolymers of methacrylates and styrene prepared by controlled/living radical polymerization. Journal of Polymer Science Part A, 2005, 43, 3440-3446.	2.5	37
111	Preparation of Segmented Copolymers in the Presence of an Immobilized/Soluble Hybrid ATRP Catalyst System. Macromolecules, 2003, 36, 27-35.	2.2	36
112	â€œInverseâ€•synthesis of polymer bioconjugates using soluble supports. Chemical Communications, 2012, 48, 3887.	2.2	36
113	Precision PEGylated Polymers Obtained by Sequenceâ€Controlled Copolymerization and Postpolymerization Modification. Angewandte Chemie - International Edition, 2014, 53, 9231-9235.	7.2	36
114	MS/MS-Assisted Design of Sequence-Controlled Synthetic Polymers for Improved Reading of Encoded Information. Journal of the American Society for Mass Spectrometry, 2017, 28, 1149-1159.	1.2	36
115	In Situ Functionalization of Thermoresponsive Polymeric Micelles using the â€œClickâ€• Cycloaddition of Azides and Alkynes. QSAR and Combinatorial Science, 2007, 26, 1151-1158.	1.5	35
116	Tuning the Thickness of Polymer Brushes Grafted from Nonlinearly Growing Multilayer Assemblies. Langmuir, 2009, 25, 5949-5956.	1.6	35
117	Precision polyelectrolytes. Chemical Communications, 2012, 48, 1517-1519.	2.2	35
118	Orthogonal modification of polymer chain-ends via sequential nitrile oxideâ€“alkyne and azideâ€“alkyne Huisgen cycloadditions. Polymer Chemistry, 2011, 2, 372-375.	1.9	34
119	Sequences of Sequences: Spatial Organization of Coded Matter through Layerâ€byâ€Layer Assembly of Digital Polymers. Angewandte Chemie - International Edition, 2018, 57, 15817-15821.	7.2	32
120	Synthesis and self-assembly of amphiphilic semi-brush and dual brush block copolymers in solution and on surfaces. Polymer Chemistry, 2011, 2, 137-147.	1.9	31
121	On the influence of the architecture of poly(ethylene glycol)-based thermoresponsive polymers on cell adhesion. Biomicrofluidics, 2012, 6, 024129.	1.2	30
122	Controlling the structure of sequenceâ€defined poly(phosphodiester)s for optimal MS/MS reading of digital information. Journal of Mass Spectrometry, 2017, 52, 788-798.	0.7	29
123	H-Bonding-Directed Self-Assembly of Synthetic Copolymers Containing Nucleobases:Â Organization and Colloidal Fusion in a Noncompetitive Solvent. Langmuir, 2006, 22, 7411-7415.	1.6	28
124	Smart Polymer Surfaces: Concepts and Applications in Biosciences. Advances in Polymer Science, 2010, , 1-33.	0.4	27
125	Tandem mass spectrometry sequencing in the negative ion mode to read binary information encoded in sequenceâ€defined poly(alkoxyamine amide)s. Rapid Communications in Mass Spectrometry, 2016, 30, 22-28.	0.7	27
126	Translocation of Precision Polymers through Biological Nanopores. Macromolecular Rapid Communications, 2017, 38, 1700680.	2.0	27

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127	Intramolecular Hydrogen Bonding: The Case ofÎ²-Phosphorylated Nitroxide (=â€‰Aminoxyl) Radical. Helvetica Chimica Acta, 2006, 89, 2119-2132.	1.0	26
128	Design of Thermoresponsive Materials by ATRP of Oligo(ethylene glycol)-based (Macro)monomers. ACS Symposium Series, 2009, , 189-202.	0.5	26
129	Efficient Protocol for the Synthesis of â€œN-Codedâ€•Oligo- and Poly(N-Substituted) Tj ETQq1 1 0.784314 rgBT /Overlock	2.3	26
130	Design of Abiological Digital Poly(phosphodiester)s. Accounts of Chemical Research, 2021, 54, 1791-1800.	7.6	25
131	A â€œClickâ€•Strategy for Tuning in situ the Hydrophilicâ€“Hydrophobic Balance of AB Macrosurfactants. Macromolecular Rapid Communications, 2008, 29, 1161-1166.	2.0	23
132	Slow science. Nature Chemistry, 2012, 4, 588-589.	6.6	23
133	On the synthesis of sequence-controlled poly(vinyl benzyl amine-co-N-substituted maleimides) copolymers. European Polymer Journal, 2015, 62, 338-346.	2.6	22
134	Damage and Repair in Informational Poly(Nâ€substituted urethane)s. Angewandte Chemie - International Edition, 2020, 59, 20390-20393.	7.2	22
135	Kinetics and Molar Mass Evolution during Atom Transfer Radical Polymerization ofn-Butyl Acrylate Using Automatic Continuous Online Monitoring. Macromolecules, 2005, 38, 9556-9563.	2.2	21
136	On the Interaction of Adherent Cells with Thermoresponsive Polymer Coatings. Polymers, 2014, 6, 1164-1177.	2.0	20
137	Primary Structure Control of Oligomers Based on Natural and Synthetic Building Blocks. ACS Macro Letters, 2014, 3, 291-294.	2.3	20
138	Synthesis of oligoarylacetylenes with defined conjugated sequences using tailor-made soluble polymer supports. Chemical Communications, 2017, 53, 8312-8315.	2.2	20
139	Revealing Data Encrypted in Sequence-Controlled Poly(Alkoxyamine Phosphodiester)s by Combining Ion Mobility with Tandem Mass Spectrometry. Analytical Chemistry, 2019, 91, 7266-7272.	3.2	20
140	Investigation of a dual set of driving forces (hydrophobic + electrostatic) for the two-step fabrication of defined block copolymer micelles. Soft Matter, 2007, 3, 694-698.	1.2	19
141	Tailorâ€Made Soluble Polymer Supports: Synthesis of a Series of ATRP Initiators Containing Labile Wang Linkers. Macromolecular Chemistry and Physics, 2010, 211, 940-947.	1.1	19
142	Effects of PEG-Based Thermoresponsive Polymer Brushes on Fibroblast Spreading and Gene Expression. Cellular and Molecular Bioengineering, 2013, 6, 287-298.	1.0	18
143	Sequence-controlled polymerization using dendritic macromonomers: precise chain-positioning of bulky functional clusters. Chemical Communications, 2013, 49, 7280.	2.2	18
144	Synthesis of Wellâ€Defined Polystyrene Rink Amide Soluble Supports and Their Use in Peptide Synthesis. Macromolecular Chemistry and Physics, 2014, 215, 1984-1990.	1.1	18

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145	Coding in 2D: Using Intentional Dispersity to Enhance the Information Capacity of Sequenceâ€Coded Polymer Barcodes. Angewandte Chemie, 2016, 128, 10880-10883.	1.6	18
146	Eine einfache Methode der nachtrÃglichen Modifizierung zur Kontrolle der Seitenketteninformation digitaler Polymere. Angewandte Chemie, 2017, 129, 7403-7407.	1.6	18
147	Chemical conjugation of nucleic acid aptamers and synthetic polymers. Polymer Chemistry, 2021, 12, 3498-3509.	1.9	18
148	Negative mode MS/MS to read digital information encoded in sequence-defined oligo(urethane)s: A mechanistic study. International Journal of Mass Spectrometry, 2017, 421, 271-278.	0.7	17
149	Can Life Emerge from Synthetic Polymers?. Israel Journal of Chemistry, 2020, 60, 151-159.	1.0	16
150	Precision Macromolecular Chemistry. Macromolecular Rapid Communications, 2011, 32, 113-114.	2.0	15
151	About the Crystallization of Abiotic Coded Matter. ACS Macro Letters, 2019, 8, 779-782.	2.3	15
152	Cleavable Binary Dyads: Simplifying Data Extraction and Increasing Storage Density in Digital Polymers. Angewandte Chemie, 2018, 130, 6374-6377.	1.6	14
153	Precise Alkoxyamine Design to Enable Automated Tandem Mass Spectrometry Sequencing of Digital Poly(phosphodiester)s. Angewandte Chemie - International Edition, 2021, 60, 917-926.	7.2	14
154	Desorption Electrospray Ionization (DESI) of Digital Polymers: Direct Tandem Mass Spectrometry Decoding and Imaging from Materials Surfaces. Advanced Materials Technologies, 2021, 6, 2001088.	3.0	14
155	New methods of polymer synthesis. Polymer Chemistry, 2012, 3, 1677.	1.9	13
156	Programmable Thermoresponsive Micelle-Inspired Polymer Ionic Liquids as Molecular Shuttles for Anionic Payloads. Macromolecules, 2019, 52, 9672-9681.	2.2	13
157	Precisely Controlled Polymer Architectures. Macromolecular Rapid Communications, 2014, 35, 122-122.	2.0	12
158	Photocontrolled Synthesis of Abiotic Sequenceâ€Defined Oligo(Phosphodiester)s. Macromolecular Rapid Communications, 2017, 38, 1700651.	2.0	12
159	Abiotic Sequenceâ€Coded Oligomers as Efficient Inâ€...Vivo Taggants for the Identification of Implanted Materials. Angewandte Chemie, 2018, 130, 10734-10738.	1.6	12
160	Large Sequence-Defined Supramolecules Obtained by the DNA-Guided Assembly of Biohybrid Poly(phosphodiester)s. Macromolecules, 2021, 54, 3423-3429.	2.2	12
161	Precisely Defined Aptamer-b-Poly(phosphodiester) Conjugates Prepared by Phosphoramidite Polymer Chemistry. ACS Macro Letters, 2021, 10, 481-485.	2.3	12
162	Convenient Routes to Efficiently N-PEGylated Peptides. ACS Macro Letters, 2013, 2, 641-644.	2.3	11

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163	Sequences of Sequences: Spatial Organization of Coded Matter through Layerâ€byâ€Layer Assembly of Digital Polymers. Angewandte Chemie, 2018, 130, 16043-16047.	1.6	11
164	Chain Entropy Beats Hydrogen Bonds to Unfold and Thread Dialcohol Phosphates inside Cyanostar Macrocycles To Form [3]Pseudorotaxanes. Journal of Organic Chemistry, 2021, 86, 4532-4546.	1.7	10
165	Storing the portrait of Antoine de Lavoisier in a single macromolecule. Comptes Rendus Chimie, 2021, 24, 69-76.	0.2	10
166	Multistep Growth â€œPolymerizationsâ€• Macromolecular Chemistry and Physics, 2022, 223, 2100368.	1.1	10
167	Debromination of ATRP-made Wang soluble polymer supports. Polymer, 2015, 72, 341-347.	1.8	9
168	Optimal ATRPâ€Made Soluble Polymer Supports for Phosphoramidite Chemistry. Chemistry - A European Journal, 2016, 22, 3462-3469.	1.7	9
169	Sequence-coded ATRP macroinitiators. Polymer Chemistry, 2017, 8, 4988-4991.	1.9	9
170	Adsorption of phenylalanine-rich sequence-defined oligomers onto Kevlar fibers for fiber-reinforced polyolefin composite materials. Polymer, 2021, 217, 123465.	1.8	9
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