Michael A.R. Meier

List of Publications by Year
in descending order

277 papers	15,678 citations	17405 63 h-index	22102 113 g-index
315 all docs	315 docs citations	315 times ranked	10688 citing authors

#	Article	IF	Citations
1	Plant oil renewable resources as green alternatives in polymer science. Chemical Society Reviews, 2007, 36, 1788.	18.7	1,288
2	Oils and Fats as Renewable Raw Materials in Chemistry. Angewandte Chemie - International Edition, 2011, 50, 3854-3871.	7.2	871
3	Castor oil as a renewable resource for the chemical industry. European Journal of Lipid Science and Technology, 2010, 112, 10-30.	1.0	587
4	Plant oils: The perfect renewable resource for polymer science?!. European Polymer Journal, 2011, 47, 837-852.	2.6	532
5	Introducing Multicomponent Reactions to Polymer Science: Passerini Reactions of Renewable Monomers. Journal of the American Chemical Society, 2011, 133, 1790-1792.	6.6	337
6	Sustainable routes to polyurethane precursors. Green Chemistry, 2013, 15, 1431.	4.6	332
7	Investigation of the Living Cationic Ring-Opening Polymerization of 2-Methyl-, 2-Ethyl-, 2-Nonyl-, and 2-Phenyl-2-oxazoline in a Single-Mode Microwave Reactorâ€. Macromolecules, 2005, 38, 5025-5034.	2.2	264
8	Acyclic dienemetathesis: a versatile tool for the construction of defined polymer architectures. Chemical Society Reviews, 2011, 40, 1404-1445.	18.7	262
9	Sequence Control in Polymer Chemistry through the Passerini Threeâ€Component Reaction. Angewandte Chemie - International Edition, 2014, 53, 711-714.	7.2	243
10	Renewability is not Enough: Recent Advances in the Sustainable Synthesis of Biomassâ€Derived Monomers and Polymers. Chemistry - A European Journal, 2016, 22, 11510-11521.	1.7	228
11	Terpene-Based Renewable Monomers and Polymers via Thiolâ€“Ene Additions. Macromolecules, 2011, 44, 7253-7262.	2.2	195
12	Combinatorial Methods, Automated Synthesis and High-Throughput Screening in Polymer Research: Past and Present. Macromolecular Rapid Communications, 2003, 24, 15-32.	2.0	178
13	Renewable polycarbonates and polyesters from 1,4-cyclohexadiene. Green Chemistry, 2015, 17, 300-306.	4.6	177
14	Cross-metathesis of fatty acid derivatives with methyl acrylate: renewable raw materials for the chemical industry. Green Chemistry, 2007, 9, 1356.	4.6	172
15	Fatty Acid Derived Monomers and Related Polymers <i>Via</i> Thiolâ€ene (Click) Additions. Macromolecular Rapid Communications, 2010, 31, 1822-1826.	2.0	171
16	Recent Progress in the Design of Monodisperse, Sequence-Defined Macromolecules. Macromolecular Rapid Communications, 2017, 38, 1600711.	2.0	165
17	Multicomponent reactions provide key molecules for secret communication. Nature Communications, 2018, 9, 1439.	5.8	164
18	Metathesis as a versatile tool in oleochemistry. European Journal of Lipid Science and Technology, 2008, 110, 797-804.	1.0	160

#	ARTICLE	IF	CITATIONS
19	Metathesis with Oleochemicals: New Approaches for the Utilization of Plant Oils as Renewable Resources in Polymer Science. Macromolecular Chemistry and Physics, 2009, 210, 1073-1079.	1.1	145
20	Renewable polyamides and polyurethanes derived from limonene. Green Chemistry, 2013, 15, 370-380.	4.6	140
21	A Scalable and Highâ€Yield Strategy for the Synthesis of Sequenceâ€Defined Macromolecules. Angewandte Chemie - International Edition, 2016, 55, 1204-1207.	7.2	140
22	Diversely Substituted Polyamides: Macromolecular Design Using the Ugi Four-Component Reaction. Macromolecules, 2014, 47, 2774-2783.	2.2	139
23	The thiolâ€ene (click) reaction for the synthesis of plant oil derived polymers. European Journal of Lipid Science and Technology, 2013, 115, 41-54.	1.0	138
24	Critical Review on Sustainable Homogeneous Cellulose Modification: Why Renewability Is Not Enough. ACS Sustainable Chemistry and Engineering, 2019, 7, 1826-1840.	3.2	121
25	Acyclic Diene Metathesis with a Monomer from Renewable Resources: Control of Molecular Weight and Oneâ€Step Preparation of Block Copolymers. ChemSusChem, 2008, 1, 542-547.	3.6	118
26	Combinatorial Methods, Automated Synthesis and High-Throughput Screening in Polymer Research: The Evolution Continues. Macromolecular Rapid Communications, 2004, 25, 21-33.	2.0	116
27	A New Class of Materials: Sequenceâ€Defined Macromolecules and Their Emerging Applications. Advanced Materials, 2019, 31, e1806027.	11.1	115
28	Use of a Renewable and Degradable Monomer to Study the Temperature-Dependent Olefin Isomerization during ADMET Polymerizations. Journal of the American Chemical Society, 2009, 131, 1664-1665.	6.6	114
29	Fatty Acids and their Derivatives as Renewable Platform Molecules for the Chemical Industry. Angewandte Chemie - International Edition, 2021, 60, 20144-20165.	7.2	114
30	Combinatorial Synthesis of Star-Shaped Block Copolymers:â€‰ Hostâˆ'Guest Chemistry of Unimolecular Reversed Micelles. Journal of the American Chemical Society, 2004, 126, 11517-11521.	6.6	113
31	Unsaturated PA X,20 from Renewable Resources via Metathesis and Catalytic Amidation. Macromolecular Chemistry and Physics, 2009, 210, 1019-1025.	1.1	108
32	Renewable Polymers from Itaconic Acid by Polycondensation and Ring-Opening-Metathesis Polymerization. Macromolecules, 2015, 48, 1398-1403.	2.2	106
33	Renewable Nonâ€Isocyanate Based Thermoplastic Polyurethanes via Polycondensation of Dimethyl Carbamate Monomers with Diols. Macromolecular Rapid Communications, 2013, 34, 1569-1574.	2.0	102
34	Structurally Diverse Polyamides Obtained from Monomers Derived via the Ugi Multicomponent Reaction. Chemistry - A European Journal, 2012, 18, 5767-5776.	1.7	97
35	Star-Block Copolymers as Templates for the Preparation of Stable Gold Nanoparticles. Langmuir, 2005, 21, 7995-8000.	1.6	96
36	TBD catalysis with dimethyl carbonate: a fruitful and sustainable alliance. Green Chemistry, 2012, 14, 1728.	4.6	95

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37	Renewable co-polymers derived from vanillin and fatty acid derivatives. European Polymer Journal, 2013, 49, 156-166.	2.6	93
38	PEO-b-PCL Block Copolymers: Synthesis, Detailed Characterization, and Selected Micellar Drug Encapsulation Behavior. Macromolecular Rapid Communications, 2005, 26, 1918-1924.	2.0	89
39	Fatty acid derived renewable polyamides via thiolâ€“ene additions. Green Chemistry, 2012, 14, 2577.	4.6	85
40	Tunable Polymers Obtained from Passerini Multicomponent Reaction Derived Acrylate Monomers. Macromolecules, 2013, 46, 6031-6037.	2.2	85
41	Dual side chain control in the synthesis of novel sequence-defined oligomers through the Ugi four-component reaction. Polymer Chemistry, 2015, 6, 3201-3204.	1.9	85
42	A Versatile Approach to Unimolecular Water-Soluble Carriers: ATRP of PEGMA with Hydrophobic Star-Shaped Polymeric Core Molecules as an Alternative for PEGylation. Macromolecules, 2009, 42, 1808-1816.	2.2	84
43	Thiol-ene vs. ADMET: a complementary approach to fatty acid-based biodegradable polymers. Green Chemistry, 2011, 13, 314.	4.6	84
44	Cross-metathesis of oleyl alcohol with methyl acrylate: optimization of reaction conditions and comparison of their environmental impact. Green Chemistry, 2008, 10, 1099.	4.6	83
45	Cross-metathesis reactions of allyl chloride with fatty acid methyl esters: Efficient synthesis of Î±,Ï‰-difunctional chemical intermediates from renewable raw materials. Applied Catalysis A: General, 2009, 353, 32-35.	2.2	81
46	High Glass Transition Temperature Renewable Polymers via Biginelli Multicomponent Polymerization. Macromolecular Rapid Communications, 2016, 37, 643-649.	2.0	80
47	Temperature Responsive Cellulose-<i>graft</i>-Copolymers via Cellulose Functionalization in an Ionic Liquid and RAFT Polymerization. Biomacromolecules, 2014, 15, 2563-2572.	2.6	79
48	Data storage in sequence-defined macromolecules via multicomponent reactions. European Polymer Journal, 2018, 104, 32-38.	2.6	79
49	Relative binding strength of terpyridine model complexes under matrix-assisted laser desorption/ionization mass spectrometry conditions. Journal of Mass Spectrometry, 2003, 38, 510-516.	0.7	78
50	Plant Oilâ€Based Longâ€Chain C₂₆ Monomers and Their Polymers. Macromolecular Chemistry and Physics, 2012, 213, 2220-2227.	1.1	76
51	Synthesis of potential bisphenol A substitutes by isomerising metathesis of renewable raw materials. Green Chemistry, 2017, 19, 3051-3060.	4.6	76
52	Bio-derived polymers for coating applications: comparing poly(limonene carbonate) and poly(cyclohexadiene carbonate). Polymer Chemistry, 2017, 8, 6099-6105.	1.9	76
53	Characterization of Defined Metal-Containing Supramolecular Block Copolymers. Macromolecular Rapid Communications, 2003, 24, 852-857.	2.0	74
54	Catalytic transesterification of cellulose in ionic liquids: sustainable access to cellulose esters. Green Chemistry, 2014, 16, 3266.	4.6	74

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55	Accelerating the Living Polymerization of 2-Nonyl-2-oxazoline by Implementing a Microwave Synthesizer into a High-Throughput Experimentation Workflow. ACS Combinatorial Science, 2005, 7, 10-13.	3.3	73
56	Acyclic Triene Metathesis Polymerization with Chainâ€Stoppers: Molecular Weight Control in the Synthesis of Branched Polymers. Macromolecular Rapid Communications, 2008, 29, 1620-1625.	2.0	73
57	Living Cationic Polymerizations Utilizing an Automated Synthesizer: High-Throughput Synthesis of Polyoxazolines. Macromolecular Rapid Communications, 2003, 24, 92-97.	2.0	71
58	Studying and Suppressing Olefin Isomerization Side Reactions During ADMET Polymerizations. Macromolecular Rapid Communications, 2010, 31, 368-373.	2.0	71
59	The Next 100 Years of Polymer Science. Macromolecular Chemistry and Physics, 2020, 221, 2000216.	1.1	69
60	Star-shaped block copolymer stabilized palladium nanoparticles for efficient catalytic Heck cross-coupling reactions. Journal of Materials Chemistry, 2006, 16, 3001.	6.7	68
61	Tuning the Hydrophilicity of Gold Nanoparticles Templated in Star Block Copolymers. Langmuir, 2006, 22, 6690-6695.	1.6	67
62	Acyclic Triene Metathesis Oligoâ€•and Polymerization of High Oleic Sun Flower Oil. Macromolecular Chemistry and Physics, 2010, 211, 854-862.	1.1	67
63	Fatty acid derived phosphorusâ€containing polyesters via acyclic diene metathesis polymerization. Journal of Polymer Science Part A, 2009, 47, 5760-5771.	2.5	64
64	Introducing Catalytic Lossen Rearrangements: Sustainable Access to Carbamates and Amines. Advanced Synthesis and Catalysis, 2013, 355, 81-86.	2.1	64
65	Phosphorusâ€containing renewable polyesterâ€polyols via ADMET polymerization: Synthesis, functionalization, and radical crosslinking. Journal of Polymer Science Part A, 2010, 48, 1649-1660.	2.5	63
66	Self-metathesis of fatty acid methyl esters: full conversion by choosing the appropriate plant oil. RSC Advances, 2013, 3, 4927.	1.7	62
67	Sustainable succinylation of cellulose in a CO₂-based switchable solvent and subsequent Passerini 3-CR and Ugi 4-CR modification. Green Chemistry, 2018, 20, 214-224.	4.6	62
68	Supramolecular Self-Assembled Ni(II), Fe(II), and Co(II) ABA Triblock Copolymers. Macromolecules, 2008, 41, 2771-2777.	2.2	61
69	Evaluation of a new multiple-layer spotting technique for matrix-assisted laser desorption/ionization time-of-flight mass spectrometry of synthetic polymers. Rapid Communications in Mass Spectrometry, 2003, 17, 713-716.	0.7	60
70	Fluorescent sensing of transition metal ions based on the encapsulation of dithranol in a polymeric core shell architecture. Chemical Communications, 2005, , 4610.	2.2	60
71	Supramolecular ABA Triblock Copolymers via a Polycondensation Approach:Â Synthesis, Characterization, and Micelle Formation. Macromolecules, 2006, 39, 1569-1576.	2.2	60
72	Copolymers derived from rapeseed derivatives via ADMET and thiol-ene addition. European Polymer Journal, 2011, 47, 1804-1816.	2.6	60

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73	Sustainable Transesterification of Cellulose with High Oleic Sunflower Oil in a DBU-CO₂ Switchable Solvent. ACS Sustainable Chemistry and Engineering, 2018, 6, 8826-8835.	3.2	59
74	New Insights into Nickel(II), Iron(II), and Cobalt(II) Bis-Complex-Based Metallo-Supramolecular Polymers. Macromolecular Chemistry and Physics, 2007, 208, 679-689.	1.1	58
75	Highly Orthogonal Functionalization of ADMET Polymers via Photo-Induced Dielsâ€“Alder Reactions. Macromolecules, 2012, 45, 5012-5019.	2.2	58
76	Plantâ€Oilâ€Based Polyamides and Polyurethanes: Toward Sustainable Nitrogenâ€Containing Thermoplastic Materials. Macromolecular Rapid Communications, 2019, 40, e1800524.	2.0	58
77	Automated parallel investigations/optimizations of the reversible addition-fragmentation chain transfer polymerization of methyl methacrylate. Journal of Polymer Science Part A, 2004, 42, 5775-5783.	2.5	57
78	Synthesis of star- and block-copolymers using ADMET: head-to-tail selectivity during step-growth polymerization. Chemical Communications, 2011, 47, 1908-1910.	2.2	57
79	Olefin cross-metathesis as a valuable tool for the preparation of renewable polyesters and polyamides from unsaturated fatty acid esters and carbamates. Green Chemistry, 2014, 16, 3335-3340.	4.6	57
80	Instrumentation for Combinatorial and High-Throughput Polymer Research: A Short Overview. Macromolecular Rapid Communications, 2003, 24, 33-46.	2.0	55
81	An Update on Isocyanide-Based Multicomponent Reactions in Polymer Science. Topics in Current Chemistry, 2017, 375, 66.	3.0	55
82	Improving the selectivity for the synthesis of two renewable platform chemicals via olefin metathesis. Applied Catalysis A: General, 2009, 368, 158-162.	2.2	54
83	Detailed Understanding of the DBU/CO₂ Switchable Solvent System for Cellulose Solubilization and Derivatization. ACS Sustainable Chemistry and Engineering, 2018, 6, 1496-1503.	3.2	54
84	Combinatorial polymer research and high-throughput experimentation: powerful tools for the discovery and evaluation of new materials. Journal of Materials Chemistry, 2004, 14, 3289.	6.7	51
85	Combinatorial and high-throughput approaches in polymer science. Measurement Science and Technology, 2005, 16, 203-211.	1.4	50
86	A novel polymerization approach via thiolâ€yne addition. Journal of Polymer Science Part A, 2012, 50, 1689-1695.	2.5	49
87	High-flexibility combinatorial peptide synthesis with laser-based transfer of monomers in solid matrix material. Nature Communications, 2016, 7, 11844.	5.8	49
88	Renewable Polyethylene Mimics Derived from Castor Oil. Macromolecular Rapid Communications, 2011, 32, 1357-1361.	2.0	48
89	Langmuir and Langmuirâˆ'Blodgett Films of Poly(ethylene oxide)-b-Poly(Îµ-caprolactone) Star-Shaped Block Copolymers. Langmuir, 2006, 22, 9264-9271.	1.6	47
90	Polymeric nanocontainers with high loading capacity of hydrophobic drugs. Soft Matter, 2009, 5, 1662.	1.2	46

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91	A Novel Light-Emitting Mixed-Ligand Iridium(III) Complex with a Terpyridine-Poly(ethylene glycol) Macroligand. Macromolecular Rapid Communications, 2004, 25, 1491-1496.	2.0	45
92	Poly(1,20-eicosanediyl 2,5-furandicarboxylate), a biodegradable polyester from renewable resources. European Polymer Journal, 2017, 90, 301-311.	2.6	45
93	Perspective: green polyurethane synthesis for coating applications. Polymer International, 2019, 68, 826-831.	1.6	45
94	Two-Dimensional Self-Assembly of Linear Poly(ethylene oxide)-b-poly(Îµ-caprolactone) Copolymers at the Airâˆ'Water Interface. Langmuir, 2007, 23, 2423-2429.	1.6	44
95	Polymers from renewable resources: Bulk ATRP of fatty alcoholâ€derived methacrylates. European Journal of Lipid Science and Technology, 2008, 110, 853-859.	1.0	44
96	Divergent Dendrimer Synthesis via the Passerini Threeâ€Component Reaction and Olefin Crossâ€Metathesis. Macromolecular Rapid Communications, 2014, 35, 317-322.	2.0	44
97	Unique adhesive properties of pressure sensitive adhesives from plant oils. International Journal of Adhesion and Adhesives, 2016, 64, 65-71.	1.4	44
98	Renewable Aromaticâ€"Aliphatic Copolyesters Derived from Rapeseed. Macromolecular Chemistry and Physics, 2013, 214, 1452-1464.	1.1	42
99	Automated MALDI-TOF-MS Sample Preparation in Combinatorial Polymer Research. ACS Combinatorial Science, 2003, 5, 369-374.	3.3	41
100	Renewability â€" a principle of utmost importance!. Green Chemistry, 2016, 18, 4800-4803.	4.6	41
101	Sustainable allylation of organosolv lignin with diallyl carbonate and detailed structural characterization of modified lignin. Green Chemistry, 2016, 18, 197-207.	4.6	41
102	Grafting onto a renewable unsaturated polyester via thiolâ€"ene chemistry and cross-metathesis. European Polymer Journal, 2013, 49, 843-852.	2.6	40
103	Passerini and Ugi Multicomponent Reactions in Polymer Science. Advances in Polymer Science, 2014, , 61-86.	0.4	40
104	Sulfur-containing fatty acid-based plasticizers via thiolâ€"ene addition and oxidation: synthesis and evaluation in PVC formulations. Green Chemistry, 2014, 16, 1883-1896.	4.6	40
105	Long-chain polyesters and polyamides from biochemically derived fatty acids. European Polymer Journal, 2014, 51, 159-166.	2.6	40
106	Initiation of Radical Chain Reactions of Thiol Compounds and Alkenes without any Added Initiator: Thiolâ€Catalyzed <i>cis</i>/<i>trans</i> Isomerization of Methyl Oleate. Chemistry - A European Journal, 2012, 18, 8201-8207.	1.7	39
107	Versatile side chain modification <i>via</i> isocyanide-based multicomponent reactions: tuning the LCST of poly(2-oxazoline)s. Polymer Chemistry, 2015, 6, 3828-3836.	1.9	39
108	Sustainable Approach for Cellulose Aerogel Preparation from the DBUâ€"CO₂ Switchable Solvent. ACS Sustainable Chemistry and Engineering, 2019, 7, 3329-3338.	3.2	38

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109	A more sustainable and highly practicable synthesis of aliphatic isocyanides. Green Chemistry, 2020, 22, 933-941.	4.6	38
110	Polyurethanes from polyols obtained by ADMET polymerization of a castor oilâ€based diene: Characterization and shape memory properties. Journal of Polymer Science Part A, 2011, 49, 518-525.	2.5	37
111	A new approach for modular polymerâ€“polymer conjugations via Heck coupling. Chemical Science, 2012, 3, 2607.	3.7	37
112	Ugi Reactions with CO₂: Access to Functionalized Polyurethanes, Polycarbonates, Polyamides, and Polyhydantoins. Macromolecular Rapid Communications, 2014, 35, 1866-1871.	2.0	37
113	Controlling molecular weight and polymer architecture during the Passerini three component step-growth polymerization. Polymer Chemistry, 2016, 7, 1857-1860.	1.9	37
114	Synthesis and Characterization of Epoxy Thermosetting Polymers from Glycidylated Organosolv Lignin and Bisphenol A. Macromolecular Chemistry and Physics, 2017, 218, 1600411.	1.1	37
115	A Combined Photochemical and Multicomponent Reaction Approach to Precision Oligomers. Chemistry - A European Journal, 2018, 24, 3413-3419.	1.7	37
116	A Mixed Ruthenium Polypyridyl Complex Containing a PEG-Bipyridine Macroligand. Macromolecular Rapid Communications, 2004, 25, 793-798.	2.0	36
117	A Designâ€ofâ€Experiments Approach for the Optimization and Understanding of the Crossâ€Metathesis Reaction of Methyl Ricinoleate with Methyl Acrylate. ChemSusChem, 2009, 2, 749-754.	3.6	36
118	Passerini addition polymerization of an AB-type monomer â€“ A convenient route to versatile polyesters. European Polymer Journal, 2014, 50, 150-157.	2.6	36
119	Renewable coâ€polymers derived from castor oil and limonene. European Journal of Lipid Science and Technology, 2014, 116, 31-36.	1.0	35
120	Sustainable functionalization of cellulose and starch with diallyl carbonate in ionic liquids. Green Chemistry, 2017, 19, 3899-3907.	4.6	35
121	Ring-Opening Metathesis Polymerization of a Naturally Derived Macrocyclic Glycolipid. Macromolecules, 2013, 46, 3293-3300.	2.2	34
122	Highly efficient oxyfunctionalization of unsaturated fatty acid esters: an attractive route for the synthesis of polyamides from renewable resources. Green Chemistry, 2014, 16, 1784-1788.	4.6	34
123	Iridium(III) Complexes with PEO and PS Polymer Macroligands and Light-Emitting Properties: Synthesis and Characterization. Macromolecular Chemistry and Physics, 2005, 206, 989-997.	1.1	33
124	Cross-metathesis of unsaturated triglycerides with methyl acrylate: Synthesis of a dimeric metathesis product. European Journal of Lipid Science and Technology, 2011, 113, 39-45.	1.0	33
125	Monomers and their polymers derived from saturated fatty acid methyl esters and dimethyl carbonate. Green Chemistry, 2012, 14, 2429.	4.6	33
126	Modified Poly(Îµ-caprolactone)s: An Efficient and Renewable Access via Thia-Michael Addition and Baeyerâ€“Villiger Oxidation. Macromolecules, 2014, 47, 2842-2846.	2.2	33

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127	Aerobic oxidation of Î±-pinene catalyzed by homogeneous and MOF-based Mn catalysts. Applied Catalysis A: General, 2017, 546, 1-6.	2.2	33
128	Progress Toward Sustainable Reversible Deactivation Radical Polymerization. Macromolecular Rapid Communications, 2020, 41, e2000266.	2.0	33
129	New soluble functional polymers by free-radical copolymerization of methacrylates and bipyridine ruthenium complexes. Journal of Polymer Science Part A, 2003, 41, 3954-3964.	2.5	32
130	Synthesis of Terpyridine-Terminated Polymers by Anionic Polymerization. Macromolecules, 2005, 38, 10388-10396.	2.2	32
131	A simple approach to reduce the environmental impact of olefinmetathesis reactions: a green and renewable solvent compared to solvent-free reactions. Green Chemistry, 2010, 12, 169-173.	4.6	32
132	Novel Insights into Pressureâ€Sensitive Adhesives Based on Plant Oils. Macromolecular Chemistry and Physics, 2015, 216, 1609-1618.	1.1	32
133	Fluorescent Covalently Cross-Linked Cellulose Networks via Light-Induced Ligation. ACS Macro Letters, 2016, 5, 139-143.	2.3	32
134	Statistical Approach To Understand MALDI-TOFMS Matrices:Â Discovery and Evaluation of New MALDI Matrices. Analytical Chemistry, 2007, 79, 863-869.	3.2	31
135	Shape Memory Polyurethanes from Renewable Polyols Obtained by ATMET Polymerization of Glyceryl Triundecâ€10â€enoate and 10â€Undecenol. Macromolecular Chemistry and Physics, 2011, 212, 1392-1399.	1.1	31
136	Poly-Î±,Î²-unsaturated aldehydes derived from castor oil via ADMET polymerization. European Journal of Lipid Science and Technology, 2011, 113, 31-38.	1.0	31
137	Olefin Metathesis of Renewable Platform Chemicals. Topics in Organometallic Chemistry, 2012, , 1-44.	0.7	31
138	Fatty Acidâ€"Derived Aliphatic Long Chain Polyethers by a Combination of Catalytic Ester Reduction and ADMET or Thiolâ€Ene Polymerization. Macromolecular Chemistry and Physics, 2019, 220, 1800440.	1.1	31
139	Direct comparison of solution and solid phase synthesis of sequence-defined macromolecules. Polymer Chemistry, 2019, 10, 3859-3867.	1.9	31
140	Terpyridine-modified poly(vinyl chloride): Possibilities for supramolecular grafting and crosslinking. Journal of Polymer Science Part A, 2003, 41, 2964-2973.	2.5	30
141	Automated multiple-layer spotting for matrix-assisted laser desorption/ionization time-of-flight mass spectrometry of synthetic polymers utilizing ink-jet printing technology. Rapid Communications in Mass Spectrometry, 2003, 17, 2349-2353.	0.7	30
142	Encapsulation and release by starâ€shaped block copolymers as unimolecular nanocontainers. Journal of Polymer Science Part A, 2008, 46, 650-660.	2.5	30
143	Ringâ€opening metathesis polymerization of fatty acid derived monomers. Journal of Polymer Science Part A, 2010, 48, 5899-5906.	2.5	30
144	On the Polymerization Behavior of Telomers: Metathesis versus Thiolâ€"Ene Chemistry. Macromolecules, 2012, 45, 1866-1878.	2.2	30

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145	Biocompatible Polymeric Nanoparticles From Castor Oil Derivatives via Thiolâ€Ene Miniemulsion Polymerization. European Journal of Lipid Science and Technology, 2018, 120, 1700212.	1.0	30
146	Sustainable polymers: reduced environmental impact, renewable raw materials and catalysis. Green Chemistry, 2014, 16, 1672.	4.6	29
147	Sophorolipids: Expanding structural diversity by ringâ€opening crossâ€metathesis. European Journal of Lipid Science and Technology, 2015, 117, 217-228.	1.0	29
148	Combining Two Methods of Sequence Definition in a Convergent Approach: Scalable Synthesis of Highly Defined and Multifunctionalized Macromolecules. Chemistry - A European Journal, 2017, 23, 13906-13909.	1.7	29
149	A more sustainable synthesis approach for cellulose acetate using the DBU/CO₂ switchable solvent system. Green Chemistry, 2021, 23, 4410-4420.	4.6	29
150	Highly efficient Tsujiâ€"Trost allylation in water catalyzed by Pd-nanoparticles. Chemical Communications, 2017, 53, 5175-5178.	2.2	28
151	Dual sequence definition increases the data storage capacity of sequence-defined macromolecules. Communications Chemistry, 2020, 3, .	2.0	28
152	Synthesis of Diverse Asymmetric Î±,Ï‰â€Dienes Via the Passerini Threeâ€Component Reaction for Headâ€toâ€Tail ADMET Polymerization. Macromolecular Chemistry and Physics, 2013, 214, 2821-2828.	1.1	27
153	Sustainable One-Pot Cellulose Dissolution and Derivatization via a Tandem Reaction in the DMSO/DBU/CO₂ Switchable Solvent System. Journal of the American Chemical Society, 2021, 143, 18693-18702.	6.6	27
154	Functional Polyethylene (PE) and PE-Based Block Copolymers by Organometallic-Mediated Radical Polymerization. Macromolecules, 2019, 52, 9053-9063.	2.2	25
155	A more sustainable isothiocyanate synthesis by amine catalyzed sulfurization of isocyanides with elemental sulfur. RSC Advances, 2021, 11, 3134-3142.	1.7	25
156	Organic carbonates: sustainable and environmentally-friendly ethylation, allylation, and benzylation reagents. Tetrahedron, 2015, 71, 293-300.	1.0	24
157	Eine skalierbare Synthese sequenzdefinierter MakromolekÃ¼le mit hohen Ausbeuten. Angewandte Chemie, 2016, 128, 1222-1225.	1.6	24
158	Direct Catalytic Route to Biomass-Derived 2,5-Furandicarboxylic Acid and Its Use as Monomer in a Multicomponent Polymerization. ACS Omega, 2019, 4, 16972-16979.	1.6	24
159	Acyclic Diene Metathesis Polymerization and Heck Polymerâ€"Polymer Conjugation for the Synthesis of Starâ€shaped Block Copolymers. Macromolecular Rapid Communications, 2013, 34, 1381-1386.	2.0	23
160	Multicomponent Reactions with a Convertible Isocyanide: Efficient and Versatile Grafting of ADMETâ€Derived Polymers. Macromolecular Chemistry and Physics, 2014, 215, 2207-2220.	1.1	23
161	Tuning the polarity of ADMET derived star-shaped polymers via thiol-ene chemistry. Polymer, 2014, 55, 5571-5575.	1.8	22
162	Catalytic Transesterification of Starch with Plant Oils: A Sustainable and Efficient Route to Fatty Acid Starch Esters. ChemSusChem, 2017, 10, 182-188.	3.6	21

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163	Biocompatible Unimolecular Micelles Obtained via the Passerini Reaction as Versatile Nanocarriers for Potential Medical Applications. Biomacromolecules, 2019, 20, 90-101.	2.6	21
164	Sustainable Functionalization of 2,3-Dialdehyde Cellulose via the Passerini Three-Component Reaction. ACS Sustainable Chemistry and Engineering, 2020, 8, 15755-15760.	3.2	21
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