Filip E Du Prez

List of Publications by Year
in descending order

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334 papers	19,252 citations	12303 69 h-index	18075 120 g-index
348 all docs	348 docs citations	348 times ranked	13015 citing authors

#	Article	IF	Citations
1	Photoâ€Crosslinking and Reductive Decrosslinking of Polymethacrylateâ€Based Copolymers Containing 1,2â€Dithiolane Rings. Macromolecular Chemistry and Physics, 2023, 224, .	1.1	6
2	Suppressing Creep and Promoting Fast Reprocessing of Vitrimers with Reversibly Trapped Amines. Angewandte Chemie - International Edition, 2022, 61, e202113872.	7.2	54
3	Rewritable Macromolecular Data Storage with Automated Readâ€out. Angewandte Chemie, 2022, 134, .	1.6	3
4	Rewritable Macromolecular Data Storage with Automated Readâ€out. Angewandte Chemie - International Edition, 2022, 61, .	7.2	18
5	Combining vinylogous urethane and Î²-amino ester chemistry for dynamic material design. Polymer Chemistry, 2022, 13, 2008-2018.	1.9	21
6	Introduction to the themed collection on synthetic methodologies for complex macromolecular structures in honour of Prof. Yusuf Yagci's 70th birthday. Polymer Chemistry, 2022, 13, 1456-1457.	1.9	0
7	Sustainable design of vanillin-based vitrimers using vinylogous urethane chemistry. Polymer Chemistry, 2022, 13, 2665-2673.	1.9	33
8	Internal catalysis on the opposite side of the fence in non-isocyanate polyurethane covalent adaptable networks. European Polymer Journal, 2022, 168, 111100.	2.6	18
9	Sequencing of Uniform Multifunctional Oligoesters via Random Chain Cleavages. Angewandte Chemie, 2022, 134, .	1.6	3
10	Sequencing of Uniform Multifunctional Oligoesters via Random Chain Cleavages. Angewandte Chemie - International Edition, 2022, 61, .	7.2	17
11	Introduction to molecularly defined polymers: synthesis and function. Polymer Chemistry, 2022, 13, 2400-2401.	1.9	3
12	Sequence-Defined Mikto-Arm Star-Shaped Macromolecules. Journal of the American Chemical Society, 2022, 144, 7236-7244.	6.6	12
13	Reversible Transformations of Polymer Topologies through Visible Light and Darkness. Journal of the American Chemical Society, 2022, 144, 6954-6963.	6.6	6
14	Forceâ€“reversible chemical reaction at ambient temperature for designing toughened dynamic covalent polymer networks. Nature Communications, 2022, 13, .	5.8	16
15	Discrete, self-immolativeN-substituted oligourethanes and their use as molecular tags. Polymer Chemistry, 2022, 13, 4178-4185.	1.9	18
16	Fast Dynamic Siloxane Exchange Mechanism for Reshapable Vitrimer Composites. Journal of the American Chemical Society, 2022, 144, 12280-12289.	6.6	58
17	Masked Primary Amines for a Controlled Plastic Flow of Vitrimers. ACS Macro Letters, 2022, 11, 919-924.	2.3	22
18	Recyclable vitrimer epoxy coatings for durable protection. European Polymer Journal, 2022, 176, 111426.	2.6	13

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19	Light-fueled dynamic covalent crosslinking of single polymer chains in non-equilibrium states. Chemical Science, 2021, 12, 1302-1310.	3.7	20
20	Using nickel to fold discrete synthetic macromolecules into single-chain nanoparticles. Polymer Chemistry, 2021, 12, 4924-4933.	1.9	6
21	Applications of Discrete Synthetic Macromolecules in Life and Materials Science: Recent and Future Trends. Advanced Science, 2021, 8, 2004038.	5.6	76
22	Sequence-Encoded Macromolecules with Increased Data Storage Capacity through a Thiol-Epoxy Reaction. ACS Macro Letters, 2021, 10, 616-622.	2.3	25
23	Assembling Lipoic Acid and Nanoclay into Nacre-Mimetic Nanocomposites. Macromolecules, 2021, 54, 4658-4668.	2.2	19
24	Covalent Adaptable Networks Using Î²-Amino Esters as Thermally Reversible Building Blocks. Journal of the American Chemical Society, 2021, 143, 9140-9150.	6.6	70
25	Biobased acrylic pressure-sensitive adhesives. Progress in Polymer Science, 2021, 117, 101396.	11.8	41
26	Polyaddition Synthesis Using Alkyne Esters for the Design of Vinylogous Urethane Vitrimers. Macromolecules, 2021, 54, 7931-7942.	2.2	29
27	Reprocessing of Covalent Adaptable Polyamide Networks through Internal Catalysis and Ring-Size Effects. Journal of the American Chemical Society, 2021, 143, 15834-15844.	6.6	52
28	Sequence-defined oligoampholytes using hydrolytically stable vinyl sulfonamides: design and UCST behaviour. Polymer Chemistry, 2021, 12, 4193-4204.	1.9	8
29	Substituent effect on the thermophysical properties and thermal dissociation behaviour of 9-substituted anthracene derivatives. Physical Chemistry Chemical Physics, 2021, 23, 2252-2263.	1.3	4
30	Surface Modification of (Non)â€Fluorinated Vitrimers through Dynamic Transamination. Macromolecular Rapid Communications, 2021, 42, e2000644.	2.0	13
31	Fast processing of highly crosslinked, low-viscosity vitrimers. Materials Horizons, 2020, 7, 104-110.	6.4	152
32	Mesoporous TiO2 from poly(N,N-dimethylacrylamide)-b-polystyrene block copolymers for long-term acetaldehyde photodegradation. Journal of Materials Science, 2020, 55, 1933-1945.	1.7	4
33	Covalent Adaptable Networks with Tunable Exchange Rates Based on Reversible Thiolâ€“yne Crossâ€Linking. Angewandte Chemie - International Edition, 2020, 59, 3609-3617.	7.2	118
34	Covalent Adaptable Networks with Tunable Exchange Rates Based on Reversible Thiolâ€“yne Crossâ€Linking. Angewandte Chemie, 2020, 132, 3637-3646.	1.6	19
35	Analysis of sequence-defined oligomers through Advanced Polymer Chromatographyâ„¢ â€“ mass spectrometry hyphenation. RSC Advances, 2020, 10, 35245-35252.	1.7	2
36	On-Demand Dissoluble Diselenide-Containing Hydrogel. Biomacromolecules, 2020, 21, 3308-3317.	2.6	20

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37	Double neighbouring group participation for ultrafast exchange in phthalate monoester networks. Polymer Chemistry, 2020, 11, 5207-5215.	1.9	39
38	Thermal dissociation of anthracene photodimers in the condensed state: kinetic evaluation and complex phase behaviour. Physical Chemistry Chemical Physics, 2020, 22, 17306-17313.	1.3	6
39	Internal catalysis for dynamic covalent chemistry applications and polymer science. Chemical Society Reviews, 2020, 49, 8425-8438.	18.7	128
40	Influence of the polymer matrix on the viscoelastic behaviour of vitrimers. Polymer Chemistry, 2020, 11, 5377-5385.	1.9	73
41	Biosourced terpenoids for the development of sustainable acrylic pressure-sensitive adhesives via emulsion polymerisation. Green Chemistry, 2020, 22, 4561-4569.	4.6	40
42	Stereocontrolled, multi-functional sequence-defined oligomers through automated synthesis. Polymer Chemistry, 2020, 11, 4271-4280.	1.9	32
43	Dynamic Curing Agents for Amine-Hardened Epoxy Vitrimers with Short (Re)processing Times. Macromolecules, 2020, 53, 2485-2495.	2.2	92
44	From Sequenceâ€Defined Macromolecules to Macromolecular Pin Codes. Advanced Science, 2020, 7, 1903698.	5.6	47
45	Shining Light on Poly(ethylene glycol): From Polymer Modification to 3D Laser Printing of Water Erasable Microstructures. Advanced Materials, 2020, 32, e2003060.	11.1	23
46	Introduction to chemistry for covalent adaptable networks. Polymer Chemistry, 2020, 11, 5295-5296.	1.9	30
47	Exploration of the Selectivity and Retention Behavior of Alternative Polyacrylamides in Temperature Responsive Liquid Chromatography. Analytical Chemistry, 2020, 92, 9815-9822.	3.2	19
48	Vitrimers: directing chemical reactivity to control material properties. Chemical Science, 2020, 11, 4855-4870.	3.7	312
49	Urethane polythioether self-crosslinking resins. Progress in Organic Coatings, 2019, 136, 105215.	1.9	3
50	Multi-olefin containing polyethers and triazolinediones: a powerful alliance. Polymer Chemistry, 2019, 10, 4699-4708.	1.9	12
51	Full and Partial Amidation of Poly(methyl acrylate) as Basis for Functional Polyacrylamide (Co)Polymers. Macromolecules, 2019, 52, 5102-5109.	2.2	31
52	Molecular access to multi-dimensionally encoded information. European Polymer Journal, 2019, 120, 109260.	2.6	29
53	Internal Catalysis in Covalent Adaptable Networks: Phthalate Monoester Transesterification As a Versatile Dynamic Cross-Linking Chemistry. Journal of the American Chemical Society, 2019, 141, 15277-15287.	6.6	172
54	Thermoplastic polyacetals: chemistry from the past for a sustainable future?. Polymer Chemistry, 2019, 10, 9-33.	1.9	66

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55	Light-Stabilized Dynamic Materials. Journal of the American Chemical Society, 2019, 141, 12329-12337.	6.6	63
56	Sustainable Synthesis of Renewable Terpenoid-Based (Meth)acrylates Using the CHEM21 Green Metrics Toolkit. ACS Sustainable Chemistry and Engineering, 2019, 7, 11633-11639.	3.2	39
57	Direct comparison of solution and solid phase synthesis of sequence-defined macromolecules. Polymer Chemistry, 2019, 10, 3859-3867.	1.9	31
58	Filler reinforced polydimethylsiloxane-based vitrimers. Polymer, 2019, 172, 239-246.	1.8	59
59	Dynamic covalent chemistry in polymer networks: a mechanistic perspective. Polymer Chemistry, 2019, 10, 6091-6108.	1.9	399
60	Digging into the Sequential Space of Thiolactone Precision Polymers: A Combinatorial Strategy to Identify Functional Domains. Angewandte Chemie - International Edition, 2019, 58, 1960-1964.	7.2	39
61	Automated Synthesis Protocol of Sequenceâ€Defined Oligoâ€Urethaneâ€Amides Using Thiolactone Chemistry. Macromolecular Rapid Communications, 2019, 40, e1800685.	2.0	28
62	Eintauchen in den Sequenzraum der Thiolactonâ€PrÃzisionspolymere: eine kombinatorische Strategie zur Identifizierung funktionaler DomÃnen. Angewandte Chemie, 2019, 131, 1980-1984.	1.6	6
63	A novel donor-Ï€-acceptor anthracene monomer: Towards faster and milder reversible dimerization. Tetrahedron, 2019, 75, 912-920.	1.0	9
64	TAD Click Chemistry on Aliphatic Polycarbonates: A First Step Toward Tailorâ€Made Materials. Macromolecular Rapid Communications, 2019, 40, 1800743.	2.0	9
65	Conformational influence of fluorinated building blocks on the physical properties of polyesters. Polymer, 2019, 164, 134-141.	1.8	2
66	Thiolactone chemistry for the synthesis of functional siliconeâ€based amphiphilic coâ€networks. Journal of Polymer Science Part A, 2019, 57, 322-333.	2.5	11
67	Vinylogous Urea Vitrimers and Their Application in Fiber Reinforced Composites. Macromolecules, 2018, 51, 2054-2064.	2.2	170
68	Bifunctionalized Redox-Responsive Layers Prepared from a Thiolactone Copolymer. Langmuir, 2018, 34, 5234-5244.	1.6	10
69	Fast Healing of Polyurethane Thermosets Using Reversible Triazolinedione Chemistry and Shape-Memory. Macromolecules, 2018, 51, 3405-3414.	2.2	79
70	Tunable Blocking Agents for Temperature-Controlled Triazolinedione-Based Cross-Linking Reactions. Macromolecules, 2018, 51, 3156-3164.	2.2	26
71	Anthracene-containing polymers toward high-end applications. Progress in Polymer Science, 2018, 82, 92-119.	11.8	120
72	Ultrafast Tailoring of Carbon Surfaces via Electrochemically Attached Triazolinediones. Langmuir, 2018, 34, 2397-2402.	1.6	13

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73	A Thiolactone Strategy for Straightforward Synthesis of Disulfideâ€Linked Sideâ€Chainâ€toâ€Tail Cyclic Peptides Featuring an Nâ€Terminal Modification Handle. ChemBioChem, 2018, 19, 641-646.	1.3	10
74	Enhancing the Possibilities of Comprehensive Two-Dimensional Liquid Chromatography through Hyphenation of Purely Aqueous Temperature-Responsive and Reversed-Phase Liquid Chromatography. Analytical Chemistry, 2018, 90, 4961-4967.	3.2	22
75	Structurally diverse polymers from norbornene and thiolactone containing building blocks. European Polymer Journal, 2018, 98, 246-253.	2.6	15
76	Polycaprolactone-b-poly(N-isopropylacrylamide) nanoparticles: Synthesis and temperature induced coacervation behavior. European Polymer Journal, 2018, 98, 468-474.	2.6	14
77	Double-Modified Glycopolymers from Thiolactones to Modulate Lectin Selectivity and Affinity. ACS Macro Letters, 2018, 7, 1498-1502.	2.3	27
78	Multifunctional sequence-defined macromolecules for chemical data storage. Nature Communications, 2018, 9, 4451.	5.8	137
79	Fluorinated Vitrimer Elastomers with a Dual Temperature Response. Journal of the American Chemical Society, 2018, 140, 13272-13284.	6.6	181
80	Anthracene-based polyurethane networks: Tunable thermal degradation, photochemical cure and stress-relaxation. European Polymer Journal, 2018, 105, 412-420.	2.6	14
81	In Situ Cross-Linked Nanofibers by Aqueous Electrospinning of Selenol-Functionalized Poly(2-oxazoline)s. Macromolecules, 2018, 51, 6149-6156.	2.2	22
82	Dynamic diselenide-containing polyesters from alcoholysis/oxidation of Î³-butyroselenolactone. Polymer Chemistry, 2018, 9, 4044-4051.	1.9	20
83	Anthraceneâ€Based Colloidal Polymer Nanoparticles: Their Photochemical Ligation and Waterborne Coating Applications. Particle and Particle Systems Characterization, 2018, 35, 1800030.	1.2	4
84	Polycycloacetals via polytransacetalization of diglycerol bisacetonide. Polymer Chemistry, 2018, 9, 4789-4797.	1.9	3
85	Thiol-Michael addition in polar aprotic solvents: nucleophilic initiation or base catalysis?. Polymer Chemistry, 2017, 8, 1341-1352.	1.9	22
86	Selenolactone as a Building Block toward Dynamic Diselenide-Containing Polymer Architectures with Controllable Topology. ACS Macro Letters, 2017, 6, 89-92.	2.3	53
87	Anthracene-Based Thiolâ€“Ene Networks with Thermo-Degradable and Photo-Reversible Properties. Macromolecules, 2017, 50, 1930-1938.	2.2	59
88	Immobilization of 2-Deoxy-<scp>d</scp>-ribose-5-phosphate Aldolase in Polymeric Thin Films via the Langmuirâ€“Schaefer Technique. ACS Applied Materials & Interfaces, 2017, 9, 8317-8326.	4.0	18
89	Biodegradable polymer networks via triazolinedione-crosslinking of oleyl-functionalized poly(Îµ-caprolactone). European Polymer Journal, 2017, 89, 230-240.	2.6	13
90	Design of a thermally controlled sequence of triazolinedione-based click and transclick reactions. Chemical Science, 2017, 8, 3098-3108.	3.7	45

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91	Multifunctional Dendrimer Formation Using Thiolactone Chemistry. Macromolecular Chemistry and Physics, 2017, 218, 1600575.	1.1	15
92	Precisely Alternating Functionalized Polyampholytes Prepared in a Single Pot from Sustainable Thiolactone Building Blocks. ACS Macro Letters, 2017, 6, 277-280.	2.3	20
93	Responsive Thiolactone-DerivedN-Substituted Poly(Urethane-Amide)s. Macromolecular Rapid Communications, 2017, 38, 1600783.	2.0	15
94	Acrylate-based coatings to protect lead substrates. Electrochimica Acta, 2017, 229, 8-21.	2.6	6
95	Covalent Fluorination Strategies for the Surface Modification of Polydienes. Macromolecular Rapid Communications, 2017, 38, 1700122.	2.0	25
96	Triazolinedione-â€œclickedâ€•poly(phosphoester)s: systematic adjustment of thermal properties. Polymer Chemistry, 2017, 8, 4074-4078.	1.9	18
97	High-Throughput Platform for Synthesis of Melamine-Formaldehyde Microcapsules. ACS Combinatorial Science, 2017, 19, 447-454.	3.8	4
98	UV-cured multifunctional coating resins prepared from renewable thiolactone derivatives. Progress in Organic Coatings, 2017, 107, 75-82.	1.9	10
99	Chemical control of the viscoelastic properties of vinylogous urethane vitrimers. Nature Communications, 2017, 8, 14857.	5.8	365
100	Easy access to triazolinedione-endcapped peptides for chemical ligation. Chemical Communications, 2017, 53, 593-596.	2.2	19
101	Tailored Modification of Thioacrylates in a Versatile, Sequenceâ€Ðefined Procedure. Macromolecular Rapid Communications, 2017, 38, 1700500.	2.0	24
102	Sustainable synthesis routes towards urazole compounds. Green Chemistry, 2017, 19, 5659-5664.	4.6	9
103	Polydimethylsiloxane quenchable vitrimers. Polymer Chemistry, 2017, 8, 6590-6593.	1.9	136
104	Click and Clickâ€Inspired Chemistry for the Design of Sequenceâ€Controlled Polymers. Macromolecular Rapid Communications, 2017, 38, 1700469.	2.0	89
105	Thiolâ€“ene chemistry for polymer coatings and surface modification â€“ building in sustainability and performance. Materials Horizons, 2017, 4, 1041-1053.	6.4	111
106	Lignin inspired phenolic polyethers synthesized via ADMET: Systematic structure-property investigation. European Polymer Journal, 2017, 95, 503-513.	2.6	17
107	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
108	Polyamides based on a partially bio-based spirodiamine. European Polymer Journal, 2017, 96, 221-231.	2.6	15

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109	Preparation of Janus nanoparticles from block copolymer thin films using triazolinedione chemistry. RSC Advances, 2017, 7, 37048-37054.	1.7	7
110	Poly(thioether) Vitrimers via Transalkylation of Trialkylsulfonium Salts. ACS Macro Letters, 2017, 6, 930-934.	2.3	207
111	Tyrosine-Triazolinedione Bioconjugation as Site-Selective Protein Modification Starting from RAFT-Derived Polymers. ACS Macro Letters, 2017, 6, 1368-1372.	2.3	25
112	Controlling thermal reactivity with different colors of light. Nature Communications, 2017, 8, 1869.	5.8	34
113	PEGylated Precision Segments Based on Sequenceâ€Defined Thiolactone Oligomers. Macromolecular Rapid Communications, 2017, 38, 1700688.	2.0	10
114	Rigid Polyurethanes, Polyesters, and Polycarbonates from Renewable Ketal Monomers. Macromolecules, 2017, 50, 5346-5352.	2.2	42
115	Reversible TAD Chemistry as a Convenient Tool for the Design of (Re)processable PCLâ€Based Shapeâ€Memory Materials. Macromolecular Rapid Communications, 2017, 38, 1600517.	2.0	25
116	Protected thiol strategies in macromolecular design. Progress in Polymer Science, 2017, 64, 76-113.	11.8	66
117	Melamineâ€“Formaldehyde Microcapsules: Micro- and Nanostructural Characterization with Electron Microscopy. Microscopy and Microanalysis, 2016, 22, 1222-1232.	0.2	3
118	Simple design of chemically crosslinked plant oil nanoparticles by triazolinedione- ene chemistry. European Polymer Journal, 2016, 81, 77-85.	2.6	20
119	Comparison of metal free polymerâ€“dye conjugation strategies in protic solvents. Polymer Chemistry, 2016, 7, 3046-3055.	1.9	19
120	Biomass Approach toward Robust, Sustainable, Multiple-Shape-Memory Materials. ACS Macro Letters, 2016, 5, 602-606.	2.3	62
121	Oneâ€Pot Automated Synthesis of Quasi Triblock Copolymers for Selfâ€Healing Physically Crosslinked Hydrogels. Macromolecular Rapid Communications, 2016, 37, 1682-1688.	2.0	17
122	Click reactive microgels as a strategy towards chemically injectable hydrogels. Polymer Chemistry, 2016, 7, 6752-6760.	1.9	12
123	High molecular weight poly(cycloacetals) towards processable polymer materials. Polymer, 2016, 103, 98-103.	1.8	6
124	The microstructure of capsule containing self-healing materials: A micro-computed tomography study. Materials Characterization, 2016, 119, 99-109.	1.9	26
125	Synthesis of thiolactone building blocks as potential precursors for sustainable functional materials. Tetrahedron, 2016, 72, 6616-6625.	1.0	24
126	ADMET and TAD chemistry: a sustainable alliance. Polymer Chemistry, 2016, 7, 5655-5663.	1.9	23

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127	Quantitative First-Principles Kinetic Modeling of the Aza-Michael Addition to Acrylates in Polar Aprotic Solvents. Journal of Organic Chemistry, 2016, 81, 12291-12302.	1.7	31
128	Thiolactone-based polymers for formaldehyde scavenging coatings. European Polymer Journal, 2016, 82, 166-174.	2.6	22
129	One-Pot Modular Synthesis of Functionalized RAFT Agents Derived from a Single Thiolactone Precursor. ACS Macro Letters, 2016, 5, 942-945.	2.3	9
130	Automated Synthesis of Monodisperse Oligomers, Featuring Sequence Control and Tailored Functionalization. Journal of the American Chemical Society, 2016, 138, 14182-14185.	6.6	151
131	Squaric ester amides as hydrolysis-resistant functional groups for protein-conjugation of RAFT-derived polymers. Polymer Chemistry, 2016, 7, 7242-7248.	1.9	17
132	Macromolecular Coupling in Seconds of Triazolinedione End-Functionalized Polymers Prepared by RAFT Polymerization. ACS Macro Letters, 2016, 5, 766-771.	2.3	35
133	Synthesis and evaluation of 9-substituted anthracenes with potential in reversible polymer systems. Tetrahedron, 2016, 72, 4303-4311.	1.0	37
134	Double Modification of Polymer End Groups through Thiolactone Chemistry. Macromolecular Rapid Communications, 2016, 37, 947-951.	2.0	19
135	Thiolactone chemistry and copper-mediated CRP for the development of well-defined amphiphilic dispersing agents. Polymer Chemistry, 2016, 7, 1632-1641.	1.9	20
136	Triazolinediones as Highly Enabling Synthetic Tools. Chemical Reviews, 2016, 116, 3919-3974.	23.0	160
137	Vitrimers: permanent organic networks with glass-like fluidity. Chemical Science, 2016, 7, 30-38.	3.7	1,115
138	Rewritable Polymer Brush Micropatterns Grafted by Triazolinedione Click Chemistry. Angewandte Chemie - International Edition, 2015, 54, 13126-13129.	7.2	86
139	Precision Multisegmented Macromolecular Lineups: A Display of Unique Control over Backbone Structure and Functionality. ACS Macro Letters, 2015, 4, 616-619.	2.3	30
140	Tunable temperature responsive liquid chromatography through thiolactone-based immobilization of poly(N-isopropylacrylamide). Journal of Chromatography A, 2015, 1426, 126-132.	1.8	14
141	Thermoresponsive hyperbranched glycopolymers: Synthesis, characterization and lectin interaction studies. European Polymer Journal, 2015, 69, 490-498.	2.6	20
142	A Shape-Recovery Polymer Coating for the Corrosion Protection of Metallic Surfaces. ACS Applied Materials & Interfaces, 2015, 7, 175-183.	4.0	106
143	Ultrafast Layer-by-Layer Assembly of Thin Organic Films Based on Triazolinedione Click Chemistry. ACS Macro Letters, 2015, 4, 331-334.	2.3	39
144	Renewable thermoplastic polyurethanes containing rigid spiroacetal moieties. European Polymer Journal, 2015, 70, 232-239.	2.6	25

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145	Poly(thiolactone) homo- and copolymers from maleimide thiolactone: synthesis and functionalization. Polymer Chemistry, 2015, 6, 4240-4251.	1.9	33
146	Metalâ€“Organic Frameworks Encapsulated in Photocleavable Capsules for UV-Light Triggered Catalysis. Chemistry of Materials, 2015, 27, 5495-5502.	3.2	31
147	Fifteen chemistries for autonomous external self-healing polymers and composites. Progress in Polymer Science, 2015, 49-50, 121-153.	11.8	173
148	In-depth numerical analysis of the TDCB specimen for characterization of self-healing polymers. International Journal of Solids and Structures, 2015, 64-65, 145-154.	1.3	15
149	Sustainable thermoplastic elastomers derived from plant oil and their â€œclick-couplingâ€•via TAD chemistry. Green Chemistry, 2015, 17, 3806-3818.	4.6	79
150	Vinylogous Urethane Vitrimers. Advanced Functional Materials, 2015, 25, 2451-2457.	7.8	763
151	Use of Triazolinedione Click Chemistry for Tuning the Mechanical Properties of Electrospun SBS-Fibers. Macromolecules, 2015, 48, 6474-6481.	2.2	36
152	Computational Study and Kinetic Analysis of the Aminolysis of Thiolactones. Journal of Organic Chemistry, 2015, 80, 8520-8529.	1.7	18
153	From plant oils to plant foils: Straightforward functionalization and crosslinking of natural plant oils with triazolinediones. European Polymer Journal, 2015, 65, 286-297.	2.6	44
154	Editorial: Precision polymer materials. European Polymer Journal, 2015, 62, 244-246.	2.6	0
155	â€œClickâ€•Inspired Chemistry in Macromolecular Science: Matching Recent Progress and User Expectations. Macromolecules, 2015, 48, 2-14.	2.2	226
156	Efficient microencapsulation of a liquid isocyanate with in situ shell functionalization. Polymer Chemistry, 2015, 6, 1159-1170.	1.9	42
157	One-pot multi-step reactions based on thiolactone chemistry: A powerful synthetic tool in polymer science. European Polymer Journal, 2015, 62, 247-272.	2.6	140
158	Polythiolactone-Based Redox-Responsive Layers for the Reversible Release of Functional Molecules. ACS Applied Materials & Interfaces, 2014, 6, 22457-22466.	4.0	23
159	One-Pot Double Modification of Polymers Based on Thiolactone Chemistry. Advances in Polymer Science, 2014, , 105-131.	0.4	14
160	Control of Glycopolymer Nanoparticle Morphology by a Oneâ€Pot, Double Modification Procedure Using Thiolactones. Macromolecular Rapid Communications, 2014, 35, 1128-1134.	2.0	40
161	Straightforward RAFT Procedure for the Synthesis of Heterotelechelic Poly(acrylamide)s. Macromolecular Rapid Communications, 2014, 35, 405-411.	2.0	12
162	Diversely Substituted Polyamide Structures through Thiolâ€“Ene Polymerization of Renewable Thiolactone Building Blocks. Macromolecules, 2014, 47, 61-69.	2.2	68

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163	Microencapsulation of Active Ingredients Using PDMS as Shell Material. Macromolecules, 2014, 47, 8231-8237.	2.2	28
164	Synthesis of multi-functionalized hydrogels by a thiolactone-based synthetic protocol. Polymer Chemistry, 2014, 5, 5461.	1.9	39
165	Cu(0)-mediated polymerization of hydrophobic acrylates using high-throughput experimentation. Polymer Chemistry, 2014, 5, 4268-4276.	1.9	25
166	Low Modulus Dry Silicone-Gel Materials by Photoinduced Thiolâ€“Ene Chemistry. Macromolecules, 2014, 47, 1292-1300.	2.2	30
167	MacroRAFT agents from renewable resources and their use as polymeric scaffolds in a grafting from approach. Polymer Chemistry, 2014, 5, 3163-3169.	1.9	12
168	One-Pot Thermo-Remendable Shape Memory Polyurethanes. Macromolecules, 2014, 47, 2010-2018.	2.2	194
169	Triazolinediones enable ultrafast and reversible click chemistry for the design of dynamic polymer systems. Nature Chemistry, 2014, 6, 815-821.	6.6	285
170	Autonomous Selfâ€Healing of Epoxy Thermosets with Thiolâ€Isocyanate Chemistry. Advanced Functional Materials, 2014, 24, 5575-5583.	7.8	92
171	Collapsing and reswelling kinetics of thermoresponsive polymers on surfaces: a matter of confinement and constraints. Soft Matter, 2014, 10, 7256-7261.	1.2	3
172	Deconvolution of overlapping spectral polymer signals in size exclusion separation-diode array detection separations by implementing a multivariate curve resolution method optimized by alternating least square. Journal of Chromatography A, 2014, 1342, 63-69.	1.8	10
173	Kinetic comparison of 13 homogeneous thiolâ€“X reactions. Polymer Chemistry, 2013, 4, 5527.	1.9	99
174	Toward Functional Polyester Building Blocks from Renewable Glycolaldehyde with Sn Cascade Catalysis. ACS Catalysis, 2013, 3, 1786-1800.	5.5	97
175	Functionalization of polyurethanes by incorporation of alkyne side-groups to oligodiols and subsequent thiolâ€“yne post-modification. European Polymer Journal, 2013, 49, 3573-3581.	2.6	17
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