Filip E Du Prez

List of Publications by Year
in descending order

334 papers	19,252 citations	11646 70 h-index	18128 120 g-index
348 all docs	348 docs citations	348 times ranked	13015 citing authors

#	Article	IF	Citations
1	Vitrimers: permanent organic networks with glass-like fluidity. Chemical Science, 2016, 7, 30-38.	7.4	1,115
2	Vinylogous Urethane Vitrimers. Advanced Functional Materials, 2015, 25, 2451-2457.	14.9	763
3	â€œClickingâ€•Polymers or Just Efficient Linking: What Is the Difference?. Angewandte Chemie - International Edition, 2011, 50, 60-62.	13.8	583
4	Porous polymer particlesâ€"A comprehensive guide to synthesis, characterization, functionalization and applications. Progress in Polymer Science, 2012, 37, 365-405.	24.7	426
5	Dynamic covalent chemistry in polymer networks: a mechanistic perspective. Polymer Chemistry, 2019, 10, 6091-6108.	3.9	399
6	Chemical control of the viscoelastic properties of vinylogous urethane vitrimers. Nature Communications, 2017, 8, 14857.	12.8	365
7	Vitrimers: directing chemical reactivity to control material properties. Chemical Science, 2020, 11, 4855-4870.	7.4	312
8	Triazolinediones enable ultrafast and reversible click chemistry for the design of dynamic polymer systems. Nature Chemistry, 2014, 6, 815-821.	13.6	285
9	Chemistry of Crosslinking Processes for Selfâ€Healing Polymers. Macromolecular Rapid Communications, 2013, 34, 290-309.	3.9	258
10	Phase behaviour of poly(N -vinyl caprolactam) in water. Polymer, 2000, 41, 8597-8602.	3.8	240
11	Limitations of radical thiolâ€ene reactions for polymerâ€"polymer conjugation. Journal of Polymer Science Part A, 2010, 48, 1699-1713.	2.3	235
12	â€œClickâ€•Inspired Chemistry in Macromolecular Science: Matching Recent Progress and User Expectations. Macromolecules, 2015, 48, 2-14.	4.8	226
13	Poly(thioether) Vitrimers via Transalkylation of Trialkylsulfonium Salts. ACS Macro Letters, 2017, 6, 930-934.	4.8	207
14	One-Pot Multistep Reactions Based on Thiolactones: Extending the Realm of Thiolâ^'Ene Chemistry in Polymer Synthesis. Journal of the American Chemical Society, 2011, 133, 1678-1681.	13.7	206
15	Multifunctionalized Sequenceâ€Defined Oligomers from a Single Building Block. Angewandte Chemie - International Edition, 2013, 52, 13261-13264.	13.8	198
16	One-Pot Thermo-Remendable Shape Memory Polyurethanes. Macromolecules, 2014, 47, 2010-2018.	4.8	194
17	Fluorinated Vitrimer Elastomers with a Dual Temperature Response. Journal of the American Chemical Society, 2018, 140, 13272-13284.	13.7	181
18	Dual/heterofunctional initiators for the combination of mechanistically distinct polymerization techniques. Progress in Polymer Science, 2006, 31, 671-722.	24.7	176

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19	Additive-Free Clicking for Polymer Functionalization and Coupling by Tetrazineâ€“Norbornene Chemistry. Journal of the American Chemical Society, 2011, 133, 13828-13831.	13.7	175
20	Fifteen chemistries for autonomous external self-healing polymers and composites. Progress in Polymer Science, 2015, 49-50, 121-153.	24.7	173
21	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.	13.7	172
22	New thermo-responsive polymer materials based on poly(2-ethyl-2-oxazoline) segments. Polymer, 2003, 44, 2255-2261.	3.8	170
23	Vinylogous Urea Vitrimers and Their Application in Fiber Reinforced Composites. Macromolecules, 2018, 51, 2054-2064.	4.8	170
24	Carbocationic polymerizations. Progress in Polymer Science, 2007, 32, 220-246.	24.7	160
25	Triazolinediones as Highly Enabling Synthetic Tools. Chemical Reviews, 2016, 116, 3919-3974.	47.7	160
26	Well-Defined (Co)polymers with 5-Vinyltetrazole Units via Combination of Atom Transfer Radical (Co)polymerization of Acrylonitrile and â€œClick Chemistryâ€•Type Postpolymerization Modification. Macromolecules, 2004, 37, 9308-9313.	4.8	158
27	Fast processing of highly crosslinked, low-viscosity vitrimers. Materials Horizons, 2020, 7, 104-110.	12.2	152
28	Automated Synthesis of Monodisperse Oligomers, Featuring Sequence Control and Tailored Functionalization. Journal of the American Chemical Society, 2016, 138, 14182-14185.	13.7	151
29	Mesoglobules of thermoresponsive polymers in dilute aqueous solutions above the LCST. Polymer, 2005, 46, 7118-7131.	3.8	147
30	One-pot multi-step reactions based on thiolactone chemistry: A powerful synthetic tool in polymer science. European Polymer Journal, 2015, 62, 247-272.	5.4	140
31	Multifunctional sequence-defined macromolecules for chemical data storage. Nature Communications, 2018, 9, 4451.	12.8	137
32	Polydimethylsiloxane quenchable vitrimers. Polymer Chemistry, 2017, 8, 6590-6593.	3.9	136
33	Internal catalysis for dynamic covalent chemistry applications and polymer science. Chemical Society Reviews, 2020, 49, 8425-8438.	38.1	128
34	â€œClickâ€•Chemistry as a Promising Tool for Side-Chain Functionalization of Polyurethanes. Macromolecules, 2008, 41, 4622-4630.	4.8	124
35	Heterogeneous azideâ€“alkyne click chemistry: towards metal-free end products. Chemical Science, 2012, 3, 959-966.	7.4	124
36	Anthracene-containing polymers toward high-end applications. Progress in Polymer Science, 2018, 82, 92-119.	24.7	120

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37	Covalent Adaptable Networks with Tunable Exchange Rates Based on Reversible Thiolâ€“yne Crossâ€Linking. Angewandte Chemie - International Edition, 2020, 59, 3609-3617.	13.8	118
38	Solvent-Resistant Nanofiltration Membranes Based on Multilayered Polyelectrolyte Complexes. Chemistry of Materials, 2008, 20, 3876-3883.	6.7	114
39	Thiolâ€“ene chemistry for polymer coatings and surface modification â€“ building in sustainability and performance. Materials Horizons, 2017, 4, 1041-1053.	12.2	111
40	Influence of Poly(ethylene oxide) Grafts on Kinetics of LCST Behavior in Aqueous Poly(N-vinylcaprolactam) Solutions and Networks Studied by Modulated Temperature DSC. Macromolecules, 2004, 37, 1054-1061.	4.8	106
41	A Shape-Recovery Polymer Coating for the Corrosion Protection of Metallic Surfaces. ACS Applied Materials & Interfaces, 2015, 7, 175-183.	8.0	106
42	Cryogels from poly(2-hydroxyethyl methacrylate): macroporous, interconnected materials with potential as cell scaffolds. Soft Matter, 2007, 3, 1176.	2.7	105
43	Polytetrahydrofuran/Clay Nanocomposites by In Situ Polymerization and â€œClickâ€•Chemistry Processes. Macromolecules, 2008, 41, 6035-6040.	4.8	105
44	One-Pot Double Modification of p(NIPAAm): A Tool for Designing Tailor-Made Multiresponsive Polymers. ACS Macro Letters, 2013, 2, 539-543.	4.8	103
45	Synthesis and characterization of polymer/clay nanocomposites by intercalated chain transfer agent. European Polymer Journal, 2008, 44, 1949-1954.	5.4	102
46	Fabrication of Porous â€œClickableâ€•Polymer Beads and Rods through Generation of High Internal Phase Emulsion (HIPE) Droplets in a Simple Microfluidic Device. Macromolecules, 2009, 42, 9289-9294.	4.8	101
47	Kinetic comparison of 13 homogeneous thiolâ€“X reactions. Polymer Chemistry, 2013, 4, 5527.	3.9	99
48	Thiol-ene and thiol-yne chemistry in microfluidics: a straightforward method towards macroporous and nonporous functional polymer beads. Polymer Chemistry, 2010, 1, 685.	3.9	98
49	Biodegradable microcapsules designed via â€˜clickâ€™ chemistry. Chemical Communications, 2008, , 190-192.	4.1	97
50	Toward Functional Polyester Building Blocks from Renewable Glycolaldehyde with Sn Cascade Catalysis. ACS Catalysis, 2013, 3, 1786-1800.	11.2	97
51	Autonomous Selfâ€Healing of Epoxy Thermosets with Thiolâ€Isocyanate Chemistry. Advanced Functional Materials, 2014, 24, 5575-5583.	14.9	92
52	Dynamic Curing Agents for Amine-Hardened Epoxy Vitrimers with Short (Re)processing Times. Macromolecules, 2020, 53, 2485-2495.	4.8	92
53	Linear Poly(ethylene imine)s by Acidic Hydrolysis of Poly(2-oxazoline)s: Kinetic Screening, Thermal Properties, and Temperature-Induced Solubility Transitions. Macromolecules, 2010, 43, 927-933.	4.8	91
54	Step-growth polymerization and â€˜clickâ€™ chemistry: The oldest polymers rejuvenated. Polymer, 2009, 50, 3877-3886.	3.8	89

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55	One-pot, additive-free preparation of functionalized polyurethanes via amineâ€“thiolâ€“ene conjugation. Polymer Chemistry, 2013, 4, 2449.	3.9	89
56	Click and Clickâ€Inspired Chemistry for the Design of Sequenceâ€Controlled Polymers. Macromolecular Rapid Communications, 2017, 38, 1700469.	3.9	89
57	Rewritable Polymer Brush Micropatterns Grafted by Triazolinedione Click Chemistry. Angewandte Chemie - International Edition, 2015, 54, 13126-13129.	13.8	86
58	â€œSandwichâ€•Microcontact Printing as a Mild Route Towards Monodisperse Janus Particles with Tailored Bifunctionality. Advanced Materials, 2011, 23, 79-83.	21.0	84
59	Degradable Multilayer Films and Hollow Capsules via a â€˜Clickâ€™ Strategy. Macromolecular Rapid Communications, 2008, 29, 1111-1118.	3.9	82
60	New poly(acrylic acid) containing segmented copolymer structures by combination of â€œclickâ€• chemistry and atom transfer radical polymerization. Reactive and Functional Polymers, 2007, 67, 1168-1180.	4.1	81
61	Sustainable thermoplastic elastomers derived from plant oil and their â€œclick-couplingâ€•via TAD chemistry. Green Chemistry, 2015, 17, 3806-3818.	9.0	79
62	Fast Healing of Polyurethane Thermosets Using Reversible Triazolinedione Chemistry and Shape-Memory. Macromolecules, 2018, 51, 3405-3414.	4.8	79
63	Double modular modification of thiolactone-containing polymers: towards polythiols and derived structures. Polymer Chemistry, 2012, 3, 1007.	3.9	78
64	Kinetic Modeling of Radical Thiolâ€“Ene Chemistry for Macromolecular Design: Importance of Side Reactions and Diffusional Limitations. Macromolecules, 2013, 46, 1732-1742.	4.8	78
65	Novel synthetic strategy toward shape memory polyurethanes with a well-defined switching temperature. Polymer, 2009, 50, 4447-4454.	3.8	77
66	Development of optimized autonomous self-healing systems for epoxy materials based on maleimide chemistry. Polymer, 2012, 53, 2320-2326.	3.8	76
67	Applications of Discrete Synthetic Macromolecules in Life and Materials Science: Recent and Future Trends. Advanced Science, 2021, 8, 2004038.	11.2	76
68	pH- and thermo-responsive properties of poly(N-vinylcaprolactam-co-acrylic acid) copolymers. Polymer International, 2003, 52, 1605-1610.	3.1	73
69	Influence of the polymer matrix on the viscoelastic behaviour of vitrimers. Polymer Chemistry, 2020, 11, 5377-5385.	3.9	73
70	Straightforward synthesis of functionalized cyclic polymers in high yield via RAFT and thiolactoneâ€“disulfide chemistry. Polymer Chemistry, 2013, 4, 184-193.	3.9	71
71	Redoxâ€Responsive Degradable PEG Cryogels as Potential Cell Scaffolds in Tissue Engineering. Macromolecular Bioscience, 2012, 12, 383-394.	4.1	70
72	Covalent Adaptable Networks Using Î²-Amino Esters as Thermally Reversible Building Blocks. Journal of the American Chemical Society, 2021, 143, 9140-9150.	13.7	70

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73	Physico-chemical interpretation of the SRNF transport mechanism for solutes through dense silicone membranes. Journal of Membrane Science, 2006, 274, 173-182.	8.2	69
74	Introduction of silica into thermo-responsive poly(N-isopropyl acrylamide) hydrogels: A novel approach to improve response rates. Polymer, 2005, 46, 9851-9862.	3.8	68
75	Diversely Substituted Polyamide Structures through Thiolâ€"Ene Polymerization of Renewable Thiolactone Building Blocks. Macromolecules, 2014, 47, 61-69.	4.8	68
76	RAFT Polymerization of 1-Ethoxyethyl Acrylate:â€‰ A Novel Route toward Near-Monodisperse Poly(acrylic) Tj ETQq0 0 0 rgBT /Overlock	4.8	67
77	Polymer networks containing crystallizable poly(octadecyl vinyl ether) segments for shape-memory materials. Macromolecular Rapid Communications, 1999, 20, 251-255.	3.9	66
78	Design of Mixed PEO/PAA Brushes with Switchable Properties Toward Protein Adsorption. Biomacromolecules, 2013, 14, 215-225.	5.4	66
79	Protected thiol strategies in macromolecular design. Progress in Polymer Science, 2017, 64, 76-113.	24.7	66
80	Thermoplastic polyacetals: chemistry from the past for a sustainable future?. Polymer Chemistry, 2019, 10, 9-33.	3.9	66
81	Synthesis of poly(tetrahydrofuran)-b-polystyrene block copolymers from dual initiators for cationic ring-opening polymerization and atom transfer radical polymerization. Journal of Polymer Science Part A, 2003, 41, 3206-3217.	2.3	63
82	Light-Stabilized Dynamic Materials. Journal of the American Chemical Society, 2019, 141, 12329-12337.	13.7	63
83	Biomass Approach toward Robust, Sustainable, Multiple-Shape-Memory Materials. ACS Macro Letters, 2016, 5, 602-606.	4.8	62
84	Lactone End-Capped Poly(ethylene oxide) as a New Building Block for Biomaterials. Macromolecules, 2004, 37, 9738-9745.	4.8	60
85	Block Copolymers of Methyl Vinyl Ether and Isobutyl Vinyl Ether With Thermo-Adjustable Amphiphilic Properties. Macromolecular Chemistry and Physics, 2003, 204, 2090-2098.	2.2	59
86	Atom Transfer Radical Polymerization of 1-Ethoxyethyl (Meth)acrylate:Â Facile Route toward Near-Monodisperse Poly((meth)acrylic acid). Macromolecules, 2004, 37, 6673-6675.	4.8	59
87	Combining â€œclickâ€•chemistry and stepâ€growth polymerization for the generation of highly functionalized polyesters. Journal of Polymer Science Part A, 2008, 46, 6552-6564.	2.3	59
88	Anthracene-Based Thiolâ€"Ene Networks with Thermo-Degradable and Photo-Reversible Properties. Macromolecules, 2017, 50, 1930-1938.	4.8	59
89	Filler reinforced polydimethylsiloxane-based vitrimers. Polymer, 2019, 172, 239-246.	3.8	59
90	Fast Dynamic Siloxane Exchange Mechanism for Reshapable Vitrimer Composites. Journal of the American Chemical Society, 2022, 144, 12280-12289.	13.7	58

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91	Metal-Free Functionalization of Linear Polyurethanes by Thiol-Maleimide Coupling Reactions. Macromolecules, 2011, 44, 7874-7878.	4.8	57
92	Efficient access to multiâ€arm star block copolymers by a combination of ATRP and RAFTâ€HDA <i>click</i> chemistry. Journal of Polymer Science Part A, 2009, 47, 2207-2213.	2.3	56
93	Segmented network structures for the separation of water/ethanol mixtures by pervaporation. Polymer International, 1998, 46, 117-125.	3.1	55
94	Revealing the nature of thio-click reactions on the solid phase. Chemical Communications, 2011, 47, 4652.	4.1	55
95	Facile Access to an Efficient Solidâ€Supported Click Catalyst System Based on Poly(ethyleneimine). Macromolecular Rapid Communications, 2009, 30, 34-38.	3.9	54
96	Norbornenyl-Based RAFT Agents for the Preparation of Functional Polymers via Thiolâ€"Ene Chemistry. Macromolecules, 2011, 44, 5619-5630.	4.8	54
97	Suppressing Creep and Promoting Fast Reprocessing of Vitrimers with Reversibly Trapped Amines. Angewandte Chemie - International Edition, 2022, 61, e202113872.	13.8	54
98	Thermo-Responsive and Emulsifying Properties of Poly(N-vinylcaprolactam) Based Graft Copolymers. Macromolecular Chemistry and Physics, 2003, 204, 1217-1225.	2.2	53
99	Design of novel poly(methyl vinyl ether) containing AB and ABC block copolymers by the dual initiator strategy. Polymer, 2005, 46, 8469-8482.	3.8	53
100	Selenolactone as a Building Block toward Dynamic Diselenide-Containing Polymer Architectures with Controllable Topology. ACS Macro Letters, 2017, 6, 89-92.	4.8	53
101	Reprocessing of Covalent Adaptable Polyamide Networks through Internal Catalysis and Ring-Size Effects. Journal of the American Chemical Society, 2021, 143, 15834-15844.	13.7	52
102	Synthesis of Multi(metallo)porphyrin Dendrimers through Nucleophilic Aromatic Substitution onmeso-Pyrimidinyl Substituted Porphyrins. Journal of Organic Chemistry, 2006, 71, 2987-2994.	3.2	51
103	Coated Wire Potentiometric Detection for Capillary Electrophoresis Studied Using Organic Amines, Drugs, and Biogenic Amines. Analytical Chemistry, 2006, 78, 3772-3779.	6.5	51
104	Propagation rate coefficients of isobornyl acrylate, <i>tert</i>â€butyl acrylate and 1â€ethoxyethyl acrylate: A high frequency PLPâ€SEC study. Journal of Polymer Science Part A, 2009, 47, 6641-6654.	2.3	51
105	Tetrazineâ€Norbornene Click Reactions to Functionalize Degradable Polymers Derived from Lactide. Macromolecular Rapid Communications, 2011, 32, 1362-1366.	3.9	51
106	Light scattering and microcalorimetry studies on aqueous solutions of thermo-responsive PVCL-g-PEO copolymers. Polymer, 2003, 44, 6807-6814.	3.8	50
107	pH-Responsive Diblock Copolymers Prepared by the Dual Initiator Strategy. Macromolecules, 2006, 39, 3760-3769.	4.8	50
108	Solvent Effects on Free Radical Polymerization Reactions: The Influence of Water on the Propagation Rate of Acrylamide and Methacrylamide. Macromolecules, 2010, 43, 827-836.	4.8	50

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109	Atom Transfer Radical Polymerization of Isobornyl Acrylate: A Kinetic Modeling Study. Macromolecules, 2010, 43, 8766-8781.	4.8	49
110	Design and Use of Organic Nanoparticles Prepared from Star-Shaped Polymers with Reactive End Groups. Journal of the American Chemical Society, 2008, 130, 10802-10811.	13.7	48
111	Poly(butylene adipate) functionalized with quaternary phosphonium groups as potential antimicrobial packaging material. Innovative Food Science and Emerging Technologies, 2012, 15, 81-85.	5.6	48
112	Track etched membranes with thermo-adjustable porosity and separation properties by surface immobilization of poly(-vinylcaprolactam). Journal of Membrane Science, 2005, 256, 64-64.	8.2	47
113	Synthesis and Self-Assembly of Amphiphilic Chiral Poly(amino acid) Star Polymers. Macromolecules, 2010, 43, 5949-5955.	4.8	47
114	From Sequenceâ€Defined Macromolecules to Macromolecular Pin Codes. Advanced Science, 2020, 7, 1903698.	11.2	47
115	100% thiol-functionalized ethylene PMOs prepared by â€œthiol acidâ€"eneâ€•chemistry. Chemical Communications, 2013, 49, 2344.	4.1	46
116	Design of a thermally controlled sequence of triazolinedione-based click and transclick reactions. Chemical Science, 2017, 8, 3098-3108.	7.4	45
117	Block Copolymers of Vinyl Ethers as Thermo-Responsive Colloidal Stabilizers of Organic Pigments in Aqueous Media. Macromolecular Chemistry and Physics, 2004, 205, 2457-2463.	2.2	44
118	Controlled Synthesis of an ABC Miktoarm Star-Shaped Copolymer by Sequential Ring-Opening Polymerization of Ethylene Oxide, Benzyl Î²-Malolactonate, and Îµ-Caprolactone. Macromolecules, 2005, 38, 10650-10657.	4.8	44
119	Star-Shaped Poly(tetrahydrofuran) with Reactive End Groups:â€‰ Design, MALDI-TOF Study, and Solution Behavior. Macromolecules, 2006, 39, 528-534.	4.8	44
120	Polymeric ligands as homogeneous, reusable catalyst systems for copper assisted click chemistry. Chemical Communications, 2010, 46, 8719.	4.1	44
121	From plant oils to plant foils: Straightforward functionalization and crosslinking of natural plant oils with triazolinediones. European Polymer Journal, 2015, 65, 286-297.	5.4	44
122	Amphiphilic segmented polymer networks based on poly(2-alkyl-2-oxazoline) and poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222	3.8	43
123	Thermo-Responsive Organic/Inorganic Hybrid Hydrogels based on Poly(N-vinylcaprolactam). Macromolecular Chemistry and Physics, 2003, 204, 98-103.	2.2	43
124	Solventâ€Resistant Nanofiltration for Product Purification and Catalyst Recovery in Click Chemistry Reactions. Chemistry - A European Journal, 2010, 16, 1061-1067.	3.3	43
125	Polyurea microcapsules with a photocleavable shell: UV-triggered release. Polymer Chemistry, 2013, 4, 763-772.	3.9	43
126	Block, blocky gradient and random copolymers of 2-ethylhexyl acrylate and acrylic acid by atom transfer radical polymerization. Polymer, 2006, 47, 6028-6037.	3.8	42

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127	Use of endospore-forming bacteria as an active oxygen scavenger in plastic packaging materials. Innovative Food Science and Emerging Technologies, 2011, 12, 594-599.	5.6	42
128	Bifunctional Janus beads made by â€œsandwichâ€•microcontact printing using click chemistry. Journal of Materials Chemistry, 2012, 22, 6190.	6.7	42
129	Efficient microencapsulation of a liquid isocyanate with in situ shell functionalization. Polymer Chemistry, 2015, 6, 1159-1170.	3.9	42
130	Rigid Polyurethanes, Polyesters, and Polycarbonates from Renewable Ketal Monomers. Macromolecules, 2017, 50, 5346-5352.	4.8	42
131	Thermoresponsive Properties of Poly(N-vinylcaprolactam)-Poly(ethylene oxide) Aqueous Systems: Solutions and Block Copolymer Networks. Macromolecular Chemistry and Physics, 2001, 202, 1700-1709.	2.2	41
132	Segmented polymer networks based on poly(N-isopropyl acrylamide) and poly(tetrahydrofuran) as polymer membranes with thermo-responsive permeability. Polymer, 2004, 45, 749-757.	3.8	41
133	Renewable sulfur-containing thermoplastics via AB-type thiol-ene polyaddition. European Polymer Journal, 2013, 49, 804-812.	5.4	41
134	Biobased acrylic pressure-sensitive adhesives. Progress in Polymer Science, 2021, 117, 101396.	24.7	41
135	Control of Glycopolymer Nanoparticle Morphology by a Oneâ€Pot, Double Modification Procedure Using Thiolactones. Macromolecular Rapid Communications, 2014, 35, 1128-1134.	3.9	40
136	Biosourced terpenoids for the development of sustainable acrylic pressure-sensitive adhesives <i>via</i> emulsion polymerisation. Green Chemistry, 2020, 22, 4561-4569.	9.0	40
137	Multifunctional Membranes for Solvent Resistant Nanofiltration and Pervaporation Applications Based on Segmented Polymer Networks. Journal of Physical Chemistry B, 2008, 112, 16539-16545.	2.6	39
138	Synthesis of multi-functionalized hydrogels by a thiolactone-based synthetic protocol. Polymer Chemistry, 2014, 5, 5461.	3.9	39
139	Ultrafast Layer-by-Layer Assembly of Thin Organic Films Based on Triazolinedione Click Chemistry. ACS Macro Letters, 2015, 4, 331-334.	4.8	39
140	Sustainable Synthesis of Renewable Terpenoid-Based (Meth)acrylates Using the CHEM21 Green Metrics Toolkit. ACS Sustainable Chemistry and Engineering, 2019, 7, 11633-11639.	6.7	39
141	Digging into the Sequential Space of Thiolactone Precision Polymers: A Combinatorial Strategy to Identify Functional Domains. Angewandte Chemie - International Edition, 2019, 58, 1960-1964.	13.8	39
142	Double neighbouring group participation for ultrafast exchange in phthalate monoester networks. Polymer Chemistry, 2020, 11, 5207-5215.	3.9	39
143	Fast, multi-responsive microgels based on photo-crosslinkable poly(2-(dimethylamino)ethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	3.8	38
144	Synthesis of poly(isobornyl acrylate) containing copolymers by atom transfer radical polymerization. Journal of Polymer Science Part A, 2008, 46, 1649-1661.	2.3	38

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145	Starâ€Shaped Polyacrylates: Highly Functionalized Architectures via CuAAC Click Conjugation. Macromolecular Rapid Communications, 2009, 30, 2049-2055.	3.9	38
146	On-demand click functionalization of polyurethane films and foams. Polymer, 2009, 50, 5362-5367.	3.8	38
147	Association behavior of thermo-responsive block copolymers based on poly(vinyl ethers). Polymer, 2005, 46, 9899-9907.	3.8	37
148	Synthesis and evaluation of 9-substituted anthracenes with potential in reversible polymer systems. Tetrahedron, 2016, 72, 4303-4311.	1.9	37
149	Design of water-soluble block copolymers containing poly(4-vinylpyridine) by atom transfer radical polymerization. European Polymer Journal, 2006, 42, 43-50.	5.4	36
150	Chemically orthogonal trifunctional Janus beads by photochemical â€œsandwichâ€•microcontact printing. Chemical Communications, 2013, 49, 63-65.	4.1	36
151	Use of Triazolinedione Click Chemistry for Tuning the Mechanical Properties of Electrospun SBS-Fibers. Macromolecules, 2015, 48, 6474-6481.	4.8	36
152	Simultaneous interpenetrating networks of a polyurethane and poly(methyl methacrylate). I. Metastable phase diagrams. Journal of Applied Polymer Science, 1995, 58, 331-346.	2.6	35
153	Comparative Morphological Study of Poly(dioxolane)/Poly(methyl methacrylate) Segmented Networks and Blends by13C Solid-State NMR and Thermal Analysis. Macromolecules, 2002, 35, 3965-3970.	4.8	35
154	Application of thermo-responsive poly(methyl vinyl ether) containing copolymers in combination with ultrasonic treatment for pigment surface modification in pigment dispersions. Polymer, 2007, 48, 2636-2643.	3.8	35
155	Macromolecular Coupling in Seconds of Triazolinedione End-Functionalized Polymers Prepared by RAFT Polymerization. ACS Macro Letters, 2016, 5, 766-771.	4.8	35
156	Highly active, thermoâ€responsive polymeric catalytic system for reuse in aqueous and organic CuAAC reactions. Journal of Polymer Science Part A, 2011, 49, 2878-2885.	2.3	34
157	Controlling thermal reactivity with different colors of light. Nature Communications, 2017, 8, 1869.	12.8	34
158	Poly(thiolactone) homo- and copolymers from maleimide thiolactone: synthesis and functionalization. Polymer Chemistry, 2015, 6, 4240-4251.	3.9	33
159	Sustainable design of vanillin-based vitrimers using vinylogous urethane chemistry. Polymer Chemistry, 2022, 13, 2665-2673.	3.9	33
160	Stereocontrolled, multi-functional sequence-defined oligomers through automated synthesis. Polymer Chemistry, 2020, 11, 4271-4280.	3.9	32
161	Controlled synthesis of amphiphilic block copolymers based on polyester and poly(amino) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 68, 990-1003.	4.1	31
162	Structure of Adsorption Layers of Amphiphilic Copolymers on Inorganic or Organic Particle Surfaces. Macromolecular Chemistry and Physics, 2010, 211, 971-976.	2.2	31

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163	Metalâ€"Organic Frameworks Encapsulated in Photocleavable Capsules for UV-Light Triggered Catalysis. Chemistry of Materials, 2015, 27, 5495-5502.	6.7	31
164	Quantitative First-Principles Kinetic Modeling of the Aza-Michael Addition to Acrylates in Polar Aprotic Solvents. Journal of Organic Chemistry, 2016, 81, 12291-12302.	3.2	31
165	Full and Partial Amidation of Poly(methyl acrylate) as Basis for Functional Polyacrylamide (Co)Polymers. Macromolecules, 2019, 52, 5102-5109.	4.8	31
166	Direct comparison of solution and solid phase synthesis of sequence-defined macromolecules. Polymer Chemistry, 2019, 10, 3859-3867.	3.9	31
167	Encapsulation and release by starâ€shaped block copolymers as unimolecular nanocontainers. Journal of Polymer Science Part A, 2008, 46, 650-660.	2.3	30
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