Olivier Coulembier

List of Publications by Citations

154 papers	4,447 citations	35 h-index	59 g-index
163 ext. papers	4,964 ext. citations	6.6 avg, IF	5.51 L-index

#	Paper	IF	Citations
154	From controlled ring-opening polymerization to biodegradable aliphatic polyester: Especially poly(β-malic acid) derivatives. *Progress in Polymer Science*, **2006**, 31, 723-747	29.6	314
153	Synthesis and post-polymerisation modifications of aliphatic poly(carbonate)s prepared by ring-opening polymerisation. *Chemical Society Reviews*, **2013**, 42, 1312-36	58.5	253
152	Implementation of metal-free ring-opening polymerization in the preparation of aliphatic polycarbonate materials. *Progress in Polymer Science*, **2014**, 39, 1144-1164	29.6	158
151	Controllable processes for generating large single crystals of poly(3-hexylthiophene). *Angewandte Chemie - International Edition*, **2012**, 51, 11131-5	16.4	139
150	Functionalized cyclic carbonates: from synthesis and metal-free catalyzed ring-opening polymerization to applications. *Polymer Chemistry*, **2011**, 2, 528-533	4.9	134
149	Alcohol Adducts of N-Heterocyclic Carbenes: Latent Catalysts for the Thermally-Controlled Living Polymerization of Cyclic Esters. *Macromolecules*, **2006**, 39, 5617-5628	5.5	133
148	Latent, thermally activated organic catalysts for the on-demand living polymerization of lactide. *Angewandte Chemie - International Edition*, **2005**, 44, 4964-8	16.4	124
147	Probe-based 3-D nanolithography using self-amplified depolymerization polymers. *Advanced Materials*, **2010**, 22, 3361-5	24	123
146	Organocatalytic depolymerization of poly(ethylene terephthalate). *Journal of Polymer Science Part A*, **2011**, 49, 1273-1281	2.5	105
145	Hydrogen-bonding catalysts based on fluorinated alcohol derivatives for living polymerization. *Angewandte Chemie - International Edition*, **2009**, 48, 5170-3	16.4	96
144	Organocatalysis paradigm revisited: are metal-free catalysts really harmless?. *Biomacromolecules*, **2015**, 16, 507-14	6.9	89
143	Metal-Free Catalyzed Ring-Opening Polymerization of β-Lactones: Synthesis of Amphiphilic Triblock Copolymers Based on Poly(dimethylmalic acid). *Macromolecules*, **2006**, 39, 4001-4008	5.5	81
142	Cyclic Polymers by Ring-Closure Strategies. *Angewandte Chemie - International Edition*, **2016**, 55, 13944-13958	13.4	79
141	One-Pot Synthesis of Well-Defined Amphiphilic and Adaptative Block Copolymers via Versatile Combination of "Click" Chemistry and ATRP. *Macromolecular Rapid Communications*, **2007**, 28, 2151-2158	4.8	73
140	Controlled room temperature ROP of L-lactide by ICl3: a simple halogen-bonding catalyst. *Polymer Chemistry*, **2010**, 1, 434-437	4.9	70
139	Probe-Based Nanolithography: Self-Amplified Depolymerization Media for Dry Lithography. *Macromolecules*, **2010**, 43, 572-574	5.5	70
138	Amphiphilic poly(D- or L-lactide)-b-poly(N,N-dimethylamino-2-ethyl methacrylate) block copolymers: controlled synthesis, characterization, and stereocomplex formation. *Biomacromolecules*, **2009**, 10, 1217-23	6.9	62

137	Update and Challenges in Carbon Dioxide-Based Polycarbonate Synthesis. *ChemSusChem*, **2020**, 13, 469-487	8.7	60
136	Organocatalytic ring-opening polymerization of l-lactide in bulk: A long standing challenge. *European Polymer Journal*, **2017**, 95, 628-634	5.2	59
135	MALDI-ToF analysis of polythiophene: use of trans-2-[3-(4-t-butyl-phenyl)-2-methyl-2-propenylidene]malononitrile-DCTB-as matrix. *Journal of Mass Spectrometry*, **2011**, 46, 237-46	2.2	59
134	A distinctive organocatalytic approach to complex macromolecular architectures. *Angewandte Chemie - International Edition*, **2007**, 46, 4719-21	16.4	48
133	Controlled Synthesis of an ABC Miktoarm Star-Shaped Copolymer by Sequential Ring-Opening Polymerization of Ethylene Oxide, Benzyl Malolactonate, and Caprolactone. *Macromolecules*, **2005**, 38, 10650-10657	5.5	44
132	Synthesis of adaptative and amphiphilic polymer model conetworks by versatile combination of ATRP, ROP, and click chemistry. *Journal of Polymer Science Part A*, **2008**, 46, 4997-5013	2.5	43
131	A tandem mass spectrometry-based method to assess the architectural purity of synthetic polymers: a case of a cyclic polylactide obtained by click chemistry. *Polymer Chemistry*, **2015**, 6, 64-69	4.9	42
130	Synthesis and supramolecular organization of regioregular polythiophene block oligomers. *Journal of Organic Chemistry*, **2010**, 75, 1561-8	4.2	41
129	High Molecular Weight Poly(,,trisubstituted lactones) As Generated by Metal-Free Phosphazene Catalysts.. *Macromolecules*, **2010**, 43, 10291-10296	5.5	41
128	Synthesis and Characterization of Nanocomposites Based on Functional Regioregular Poly(3-hexylthiophene) and Multiwall Carbon Nanotubes. *Macromolecular Rapid Communications*, **2010**, 31, 1427-34	4.8	40
127	Latent, Thermally Activated Organic Catalysts for the On-Demand Living Polymerization of Lactide. *Angewandte Chemie*, **2005**, 117, 5044-5048	3.6	40
126	New Amphiphilic Poly[(R,S)-malic acid-b-caprolactone] Diblock Copolymers by Combining Anionic and Coordination−Insertion Ring-Opening Polymerization. *Macromolecules*, **2002**, 35, 9896-9903	5.5	40
125	Size dependence of the folding of multiply charged sodium cationized polylactides revealed by ion mobility mass spectrometry and molecular modelling. *Chemistry - A European Journal*, **2011**, 17, 9738-45	4.8	39
124	Influence of Chain Topology (Cyclic versus Linear) on the Nucleation and Isothermal Crystallization of Poly(l-lactide) and Poly(d-lactide). *Macromolecules*, **2018**, 51, 1718-1732	5.5	37
123	Synthesis of poly(L-lactide) and gradient copolymers from a L-lactide/trimethylene carbonate eutectic melt. *Chemical Science*, **2012**, 3, 723-726	9.4	36
122	Regioregular poly(3-hexylthiophene)-poly(caprolactone) block copolymers: Controlled synthesis, microscopic morphology, and charge transport properties. *Organic Electronics*, **2010**, 11, 767-774	3.5	36
121	Polymers for Traveling Wave Ion Mobility Spectrometry Calibration. *Journal of the American Society for Mass Spectrometry*, **2017**, 28, 2483-2491	3.5	35
120	Isoselective Ring-Opening Polymerization of rac-Lactide from Chiral Takemoto Organocatalysts: Elucidation of Stereocontrol. *ACS Macro Letters*, **2018**, 7, 1413-1419	6.6	35

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118	Ambient temperature catalyst-free light-induced preparation of macrocyclic aliphatic polyesters. *Chemical Communications*, **2014**, 50, 2024-6	5.8	33
117	Synthesis of Amphiphilic Poly((R,S)-malic acid)-graft-poly(ε-caprolactone): "Grafting From" and "Grafting Through" Approaches. *Macromolecules*, **2005**, 38, 3141-3150	5.5	33
116	Molecular Weight Dependence of Exciton Diffusion in Poly(3-hexylthiophene). *Advanced Energy Materials*, **2013**, 3, 1445-1453	21.8	32
115	Synthesis of Biomimetic Poly(hydroxybutyrate): Alkoxy- and Carboxytriazolines as Latent Ionic Initiator. *Macromolecules*, **2007**, 40, 8560-8567	5.5	32
114	Carbohydrate-based amphiphilic diblock copolymers: Synthesis, characterization, and aqueous properties. *Journal of Polymer Science Part A*, **2008**, 46, 3662-3672	2.5	31
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111	An imidazole-based organocatalyst designed for bulk polymerization of lactide isomers: inspiration from Nature. *Chemical Communications*, **2012**, 48, 11695-7	5.8	29
110	Thermodynamics and Kinetics of Ring-Opening Polymerization1-51		29
109	Cyclic polymers: Advances in their synthesis, properties, and biomedical applications. *Journal of Polymer Science*, **2020**, 58, 1481-1502	2.4	28
108	Thermal degradation of poly(l-lactide): Accelerating effect of residual DBU-based organic catalysts. *Polymer Degradation and Stability*, **2011**, 96, 739-744	4.7	28
107	Efficiency of DBU/iodine cooperative dual catalysis for the solvent-free synthesis of five-membered cyclic carbonates under atmospheric CO2 pressure. *Journal of CO2 Utilization*, **2015**, 10, 7-11	7.6	27
106	Porphyrins fused to N-heterocyclic carbenes (NHCs): modulation of the electronic and catalytic properties of NHCs by the central metal of the porphyrin. *Chemistry - A European Journal*, **2013**, 19, 15652-60	4.8	27
105	Stereocomplexed Materials Based on Poly(3-hexylthiophene)-b-poly(lactide) Block Copolymers: Synthesis by Organic Catalysis, Thermal Properties, and Microscopic Morphology. *Macromolecules*, **2010**, 43, 8957-8964	5.5	27
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94	From Jellyfish Macromolecular Architectures to Nanodoughnut Self-Assembly. *Macromolecules*, **2010**, 43, 575-579	5.5	21
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92	Polyesters from Lactones227-254		20
91	Metal-free synthesis of poly(trimethylene carbonate) by efficient valorization of carbon dioxide. *Green Chemistry*, **2019**, 21, 472-477	10	19
90	Bulk Organocatalytic Synthetic Access to Statistical Copolyesters from l-Lactide and Caprolactone Using Benzoic Acid. *Biomacromolecules*, **2019**, 20, 1965-1974	6.9	19
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86	Ring-Opening Metathesis Polymerization197-225		18
85	Isomorphic Polyoxyalkylene Copolyethers Obtained by Copolymerization of Aliphatic Diols. *Macromolecules*, **2019**, 52, 3506-3515	5.5	17
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83	Novel regioregular poly(3-hexylthiophene)-based polycationic block copolymers. *Polymer Bulletin*, **2011**, 66, 51-64	2.4	17
82	Polyamides165-195		17
81	Synthesis and Micellization Properties of Novel Symmetrical Poly(ε-caprolactone-b-[R,S]-malic acid-b-ε-caprolactone) Triblock Copolymers. *Macromolecular Chemistry and Physics*, **2006**, 207, 484-491	2.6	17
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71	General Mechanisms in Ring-Opening Polymerization53-63		14
70	Synthesis and characterization of poly (ε-caprolactam-co-lactide) polyesteramides using Brønsted acid or Brønsted base organocatalyst. *European Polymer Journal*, **2017**, 95, 650-659	5.2	13
69	Scope and limitations of ring-opening copolymerization of trimethylene carbonate with substituted γ-thiolactones. *Polymer Chemistry*, **2018**, 9, 2769-2774	4.9	13
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61	Collision-induced dissociation of polymer ions: Charge driven decomposition for sodium-cationized polylactides and isomeric end-group distinction. *International Journal of Mass Spectrometry*, **2011**, 308, 11-17	1.9	12
60	Polyethers and Polyoxazolines141-164		12
59	New amphiphilic graft copolymer based on poly(β-malic acid): synthesis and characterization. *Polymer Bulletin*, **2004**, 51, 365-372	2.4	12
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49	Development of Inherently Flame-Retardant Phosphorylated PLA by Combination of Ring-Opening Polymerization and Reactive Extrusion. *Materials*, **2019**, 13,	3.5	10
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47	Metal-Free Catalysis in Ring-Opening Polymerization357-378		9
46	Polycarbonates307-327		9
45	Synthesis of amphiphilic A3B mikto-arm copolymers from a sugar core: Combination of hydrophobic PCL and hydrophilic glycopolymers for biocompatible nanovector preparation. *Journal of Polymer Science Part A*, **2010**, 48, 3271-3280	2.5	9
44	One Step Further in the Characterization of Synthetic Polymers by Ion Mobility Mass Spectrometry: Evaluating the Contribution of End-groups. *Polymers*, **2019**, 11,	4.5	8
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41	Ring-Opening Polymerization of Cyclic Esters: Industrial Synthesis, Properties, Applications, and Perspectives **2012**, 761-778		8
40	Siloxane-Containing Polymers65-95		8
39	Polyesters from Dilactones255-286		8
38	Capillary rise of polydimethylsiloxane around a poly(ethylene terephthalate) fiber versus viscosity: Existence of a sharp transition in the dynamic wetting behavior. *Journal of Colloid and Interface Science*, **2019**, 536, 499-506	9.3	8
37	Polyesters from Large Lactones287-306		7
36	Extending the Scope of Benign and Thermally Stable Organocatalysts: Application of Dibenzoylmethane for the Bulk Copolymerization of l-Lactide and e-Caprolactone. *Journal of Polymer Science Part A*, **2018**, 56, 475-479	2.5	7
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28	Enzyme-Mediated Ring-Opening Polymerization379-397		5
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22	Polymerization of Cycloalkanes329-356		4
21	Bulk Polymerization of (L,L)-Lactide Using Non-Organometallic Triazolium Carbene: Limited Advantages. *The Open Macromolecules Journal*, **2007**, 1, 1-5		4
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9	Comparison of Matrix Assisted Laser Desorption/ Ionization Mass Spectrometry with Electrospray Ionisation Mass Spectrometry for the characterisation of semitelechelic polyethylene oxide. *E-Polymers*, **2010**, 10,	2.7	1
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5	Functionalization of P3HT-Based Hybrid Materials for Photovoltaic Applications **2018**, 107-177		0
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