

Christophe Boisson

List of Publications by Year in descending order

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117
papers

3,681
citations

117571

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times ranked

2720
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of selective divalent chain transfer agents for coordinative chain transfer polymerization of ethylene and its copolymerization with butadiene. <i>Polymer Chemistry</i> , 2022, 13, 1970-1977.	1.9	11
2	Switch from Anionic Polymerization to Coordinative Chain Transfer Polymerization: A Valuable Strategy to Make Olefin Block Copolymers. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	11
3	Switch from Anionic Polymerization to Coordinative Chain Transfer Polymerization: A Valuable Strategy to Make Olefin Block Copolymers. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	4
4	Cationic Phenoxyimine Complexes of Yttrium: Synthesis, Characterization, and Living Polymerization of Isoprene. <i>Organometallics</i> , 2022, 41, 2106-2118.	1.1	3
5	Thermomorphic Polyethyleneâ€Supported Organocatalysts for the Valorization of Vegetable Oils and CO ₂ . <i>Advanced Sustainable Systems</i> , 2021, 5, 2000218.	2.7	11
6	Organocatalytic Synthesis of Substituted Vinylene Carbonates. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 5129-5137.	2.1	5
7	Monocationic Bis-Alkyl and Bis-Allyl Yttrium Complexes: Synthesis, ⁸⁹ Y NMR Characterization, Ethylene or Isoprene Polymerization, and Modeling. <i>Organometallics</i> , 2021, 40, 218-230.	1.1	8
8	Titanium-based phenoxy-imine catalyst for selective ethylene trimerization: effect of temperature on the activity, selectivity and properties of polymeric side products. <i>Catalysis Science and Technology</i> , 2020, 10, 1602-1608.	2.1	6
9	Ene/Diene Copolymerization Catalyzed by Cationic Sc and Gd d ⁰ Metal Complexes: Speciation, Ion Pairing, and Selectivity from a Computational Perspective. <i>ACS Catalysis</i> , 2020, 10, 12359-12369.	5.5	6
10	One-pot syntheses of heterotelechelic $\hat{\pm}$ -vinyl, $\hat{\%}$ -methoxysilane polyethylenes and condensation into comb-like and star-like polymers with high chain end functionality. <i>Polymer Chemistry</i> , 2020, 11, 3884-3891.	1.9	11
11	Engineering Poly(ethylene-co-1-butene) through Modulating the Active Species by Alkylaluminum. <i>ACS Catalysis</i> , 2020, 10, 7216-7229.	5.5	11
12	A Thermomorphic Polyethyleneâ€Supported Imidazolium Salt for the Fixation of CO ₂ into Cyclic Carbonates. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 1696-1705.	2.1	15
13	An Advanced Technique for Linear Lowâ€Density Polyethylene Composition Determination: TGAâ€IST16â€GCâ€MS Coupling. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900162.	1.1	9
14	Polyethylene Aerogels with Combined Physical and Chemical Crosslinking: Improved Mechanical Resilience and Shapeâ€Memory Properties. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15883-15889.	7.2	24
15	Polyethylene Aerogels with Combined Physical and Chemical Crosslinking: Improved Mechanical Resilience and Shapeâ€Memory Properties. <i>Angewandte Chemie</i> , 2019, 131, 16030-16036.	1.6	3
16	Identification of a Transient but Key Motif in the Living Coordinative Chain Transfer Cyclocopolymerization of Ethylene with Butadiene. <i>ACS Catalysis</i> , 2019, 9, 9298-9309.	5.5	14
17	Molecular Dynamics Simulation of Ethylene/Hexene Copolymer Adsorption onto Graphene: New Insight into Thermal Gradient Interaction Chromatography. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1800496.	1.1	9
18	Alkynyl Ether Labeling: A Selective and Efficient Approach to Count Active Sites of Olefin Polymerization Catalysts. <i>ACS Catalysis</i> , 2019, 9, 3098-3103.	5.5	15

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19	Chemical Composition of Hexene-Based Linear Low-Density Polyethylene by Infrared Spectroscopy and Chemometrics. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900376.	1.1	1
20	Rapid Determination of the Chemical Composition of Ethylene/Butadiene Copolymers Using FTIR Spectroscopy and Chemometrics. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1700609.	1.1	3
21	Structural and Mechanical Properties of Supramolecular Polyethylenes. <i>Macromolecules</i> , 2018, 51, 2630-2640.	2.2	28
22	The effect of aluminum alkyls and <i>BHT</i> on reaction kinetics of silica supported metallocenes and polymer properties in slurry phase ethylene polymerization. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45670.	1.3	2
23	Coordinative chain transfer copolymerization of ethylene and styrene using an <i>ansa</i> -bis(fluorenyl) neodymium complex and dialkylmagnesium. <i>Polymer Chemistry</i> , 2018, 9, 3262-3271.	1.9	2
24	Monofunctional and Telechelic Polyethylenes Carrying Phosphonic Acid End Groups. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800154.	2.0	12
25	Dialkenylmagnesium Compounds in Coordinative Chain Transfer Polymerization of Ethylene. Reversible Chain Transfer Agents and Tools To Probe Catalyst Selectivities toward Ring Formation. <i>Organometallics</i> , 2018, 37, 1546-1554.	1.1	16
26	Light induced polyethylene ligation. <i>Polymer Chemistry</i> , 2018, 9, 3633-3637.	1.9	3
27	Free Radical Copolymerization of Ethylene with Vinyl Acetate under Mild Conditions. <i>Macromolecules</i> , 2017, 50, 3516-3523.	2.2	31
28	Experimental proof of the existence of mass-transfer resistance during early stages of ethylene polymerization with silica supported metallocene/MAO catalysts. <i>AIChE Journal</i> , 2017, 63, 4476-4490.	1.8	19
29	Avoiding leaching of silica supported metallocenes in slurry phase ethylene homopolymerization. <i>Reaction Chemistry and Engineering</i> , 2017, 2, 521-530.	1.9	10
30	Amino End-Functionalized Polyethylenes and Corresponding Telechelics by Coordinative Chain Transfer Polymerization. <i>Macromolecules</i> , 2017, 50, 8372-8377.	2.2	31
31	Preparation of monopodal and bipodal aluminum surface species by selective protonolysis of highly reactive $[\text{AlH}_3(\text{NMe}_2\text{Et})]$ on silica. <i>Dalton Transactions</i> , 2017, 46, 11547-11551.	1.6	3
32	A new straightforward method for measuring xylene soluble for high impact polypropylene. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 939-943.	0.9	6
33	Polyolefins, a Success Story. <i>Polymers</i> , 2017, 9, 185.	2.0	156
34	Active and Recyclable Polyethylene-Supported Iridium($\text{N}^{\text{Heterocyclic Carbene}}$) Catalyst for Hydrogen/Deuterium Exchange Reactions. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 2317-2323.	2.1	10
35	Silica/Methylaluminoxane/ $(\text{n-BuCp})_2\text{ZrCl}_2$: Effect of Silica Dehydroxylation Temperature on HDPE Morphology. <i>Macromolecular Symposia</i> , 2016, 360, 61-68.	0.4	3
36	Ethylene-Butadiene Copolymerization by Neodymocene Complexes: A Ligand Structure/Activity/Polymer Microstructure Relationship Based on DFT Calculations. <i>ACS Catalysis</i> , 2016, 6, 1028-1036.	5.5	37

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37	The design of a bipodal bis(pentafluorophenoxy)aluminate supported on silica as an activator for ethylene polymerization using surface organometallic chemistry. <i>Chemical Communications</i> , 2016, 52, 4776-4779.	2.2	21
38	Silica/MAO/(n-BuCp) ₂ ZrCl ₂ catalyst: effect of support dehydroxylation temperature on the grafting of MAO and ethylene polymerization. <i>Catalysis Science and Technology</i> , 2016, 6, 2962-2974.	2.1	44
39	Deciphering the Mechanism of Coordinative Chain Transfer Polymerization of Ethylene Using Neodymocene Catalysts and Dialkylmagnesium. <i>ACS Catalysis</i> , 2016, 6, 851-860.	5.5	50
40	Polyboramines for Hydrogen Release: Polymers Containing Lewis Pairs in their Backbone. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15744-15749.	7.2	38
41	Synthesis of Block Copolymers Based on Polyethylene by Thermally Induced Controlled Radical Polymerization Using Mn ₂ (CO) ₁₀ . <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 958-963.	1.1	30
42	Toward Anisotropic Hybrid Materials: Directional Crystallization of Amphiphilic Polyoxazoline-Based Triblock Terpolymers. <i>ACS Nano</i> , 2015, 9, 10085-10098.	7.3	29
43	Divinyl-Functionalized Polyethylenes: Ready Access to a Range of Telechelic Polyethylenes through Thiol-Ene Reactions. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4631-4635.	7.2	49
44	Characterization of the Chemical Composition Distribution of Ethylene/Alkene Copolymers with HPLC and CRYSTAF: Comparison of Results. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 721-732.	1.1	20
45	Microphase Separation and Crystallization in H-Bonding End-Functionalized Polyethylenes. <i>Macromolecules</i> , 2015, 48, 3257-3268.	2.2	32
46	Well-Defined Silica-Supported Zirconium-Benzyl Cationic Species: Improved Heterogenization of Single-Site Polymerization Catalysts. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 888-895.	1.0	18
47	Activation and Deactivation of the Polymerization of Ethylene over (rac)-EtInd ₂ ZrCl ₂ and (n-BuCp) ₂ ZrCl ₂ on an Activating Silica Support. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 1358-1369.	1.1	11
48	Catalytic olefin polymerisation at short times: Studies using specially adapted reactors. <i>Canadian Journal of Chemical Engineering</i> , 2013, 91, 669-686.	0.9	34
49	Borate and MAO Free Activating Supports for Metallocene Complexes. <i>ACS Catalysis</i> , 2013, 3, 2288-2293.	5.5	21
50	Site count: is a high-pressure quenched-flow reactor suitable for kinetic studies of molecular catalysts in ethylene polymerization?. <i>Dalton Transactions</i> , 2013, 42, 9049.	1.6	7
51	Small Changes Have Consequences: Lessons from Tetrabenzyltitanium and Zirconium Surface Organometallic Chemistry. <i>Chemistry - A European Journal</i> , 2013, 19, 964-973.	1.7	24
52	Grafting of polyethylene onto graphite oxide sheets: a comparison of two routes. <i>Polymer Chemistry</i> , 2013, 4, 2828.	1.9	37
53	Telechelic Polyethylene from Catalyzed Chain-Growth Polymerization. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3438-3441.	7.2	71
54	Di- and Triblock Copolymers Based on Polyethylene and Polyisobutene Blocks. Toward New Thermoplastic Elastomers. <i>Macromolecules</i> , 2013, 46, 3417-3424.	2.2	38

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55	Enhanced Spin Capturing Polymerization of Ethylene. <i>Macromolecules</i> , 2013, 46, 29-36.	2.2	13
56	Specialised tools for a better comprehension of olefin polymerisation reactors. <i>Macromolecular Symposia</i> , 2013, 333, 233-241.	0.4	2
57	Homogeneous Copolymers of Ethylene with α -olefins Synthesized with Metallocene Catalysts and Their Use as Standards for \langle scp>TREF</scp> Calibration. <i>Macromolecular Symposia</i> , 2013, 330, 42-52.	0.4	14
58	Synthesis of copolymers of ethylene and (meth)acrylates or styrene by an original dual radical/catalytic mechanism. <i>Pure and Applied Chemistry</i> , 2012, 84, 2113-2120.	0.9	8
59	Polyethylene end functionalization using thia-Michael addition chemistry. <i>Polymer Chemistry</i> , 2012, 3, 2383.	1.9	23
60	Completely Miscible Polyethylene Nanocomposites. <i>Journal of the American Chemical Society</i> , 2012, 134, 18157-18160.	6.6	60
61	Poly(ethylene) brushes grafted to silicon substrates. <i>Polymer Chemistry</i> , 2012, 3, 1838-1845.	1.9	31
62	New insights on Ni-based catalysts for stereospecific polymerization of butadiene. <i>Polymer Chemistry</i> , 2012, 3, 1490.	1.9	8
63	Polyethylenes bearing a terminal porphyrin group. <i>Chemical Communications</i> , 2011, 47, 7057.	2.2	26
64	Homo- and Copolymerizations of (Meth)Acrylates with Olefins (Styrene, Ethylene) Using Neutral Nickel Complexes: A Dual Radical/Catalytic Pathway. <i>Macromolecules</i> , 2011, 44, 3293-3301.	2.2	52
65	Polyethylene End Functionalization Using Radical-Mediated Thiol α -ene Chemistry: Use of Polyethylenes Containing Alkene End Functionality. <i>Macromolecules</i> , 2011, 44, 3381-3387.	2.2	35
66	Unusual activation by solvent of the ethylene free radical polymerization. <i>Polymer Chemistry</i> , 2011, 2, 2328.	1.9	31
67	Well-defined polyolefin/poly(ϵ -caprolactone) diblock copolymers: New synthetic strategy and application. <i>Journal of Polymer Science Part A</i> , 2011, 49, 511-517.	2.5	50
68	Block copolymers via macromercaptan initiated ring opening polymerization. <i>Journal of Polymer Science Part A</i> , 2011, 49, 803-813.	2.5	19
69	Synthesis of polyethylene α -grafted multiwalled carbon nanotubes via a peroxide α -initiating radical coupling reaction and by using well-defined TEMPO and thiol end α -functionalized polyethylenes. <i>Journal of Polymer Science Part A</i> , 2011, 49, 957-965.	2.5	17
70	Synthesis of copolyamides based on PA 66 bearing lithium sulfonate groups and having unique thermal properties. <i>Journal of Polymer Science Part A</i> , 2011, 49, 5057-5062.	2.5	0
71	Synthesis of Cyclopentadienyl Capped Polyethylene and Subsequent Block Copolymer Formation Via Hetero Diels α -Alder (HDA) Chemistry. <i>Macromolecular Rapid Communications</i> , 2011, 32, 1447-1453.	2.0	26
72	Aqueous Dispersions of Nonspherical Polyethylene Nanoparticles from Free α -Radical Polymerization under Mild Conditions. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6810-6812.	7.2	18

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73	Role of Silica Properties in the Polymerisation of Ethylene Using Supported Metallocene Catalysts. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 91-102.	1.1	30
74	A systematic study of the kinetics of polymerisation of ethylene using supported metallocene catalysts. <i>Chemical Engineering Journal</i> , 2010, 157, 194-203.	6.6	10
75	Characterization of Ethylene methyl methacrylate and Ethylene butylacrylate Copolymers with Interactive Liquid Chromatography. <i>Macromolecular Symposia</i> , 2010, 298, 191-199.	0.4	9
76	A RAFT Analogue Olefin Polymerization Technique Using Coordination Chemistry. <i>Australian Journal of Chemistry</i> , 2010, 63, 1155.	0.5	32
77	Neutral ansa-bis(fluorenyl)silane neodymium borohydrides: synthesis, structural study and behaviour as catalysts in butadiene-ethylene copolymerisation. <i>New Journal of Chemistry</i> , 2010, 34, 2290.	1.4	19
78	Catalyzed chain growth (CCG) on a main group metal: an efficient tool to functionalize polyethylene. <i>Polymer Chemistry</i> , 2010, 1, 793.	1.9	112
79	Thiol-End-Functionalized Polyethylenes. <i>Macromolecules</i> , 2010, 43, 7495-7503.	2.2	36
80	Supercritical behavior in free radical polymerization of ethylene in the medium pressure range. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11665.	1.3	17
81	Free Ethylene Radical Polymerization under Mild Conditions: The Impact of the Solvent. <i>Macromolecules</i> , 2009, 42, 7279-7281.	2.2	29
82	<i>ansa</i> -Bis(fluorenyl)neodymium Catalysts for Cyclocopolymerization of Ethylene with Butadiene. <i>Macromolecules</i> , 2009, 42, 3774-3779.	2.2	38
83	Synthesis of dihydroxy poly(ethylene-co-butadiene) via metathetical depolymerization: Kinetic and mechanistic aspects. <i>Polymer</i> , 2008, 49, 4935-4941.	1.8	27
84	Polyethylene Building Blocks by Catalyzed Chain Growth and Efficient End Functionalization Strategies, Including Click Chemistry. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9311-9313.	7.2	121
85	Synthesis of well-defined polymer architectures by successive catalytic olefin polymerization and living/controlled polymerization reactions. <i>Progress in Polymer Science</i> , 2007, 32, 419-454.	11.8	119
86	Catalyzed chain growth of polyethylene on magnesium for the synthesis of macroalkoxyamines: Application to the production of block copolymers using controlled radical polymerization. <i>Journal of Polymer Science Part A</i> , 2007, 45, 2705-2718.	2.5	44
87	Lanthanidocene Borohydrides: Alternative Precursors for Olefin and Conjugated Diene Polymerization Catalysts. <i>Macromolecular Chemistry and Physics</i> , 2006, 207, 1727-1731.	1.1	27
88	New Functional Polyolefins: Towards a Bridge Between Catalytic and RAFT Polymerizations?. <i>Macromolecular Rapid Communications</i> , 2006, 27, 173-181.	2.0	56
89	Alternating Copolymerization of Ethylene and Butadiene with a Neodymocene Catalyst. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2593-2596.	7.2	62
90	Advances and Limits in Copolymerization of Olefins with Conjugated Dienes. <i>Macromolecular Symposia</i> , 2005, 226, 17-24.	0.4	24

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91	New Nanocomposite Materials Reinforced with Cellulose Whiskers in Atactic Polypropylene: Effect of Surface and Dispersion Characteristics. <i>Biomacromolecules</i> , 2005, 6, 2732-2739.	2.6	369
92	Use of a Lewis Acid Surfactant Combined Catalyst in Cationic Polymerization in Miniemulsion: Apparent and Hidden Initiators. <i>Macromolecules</i> , 2004, 37, 3136-3142.	2.2	46
93	Polymerization of butadiene and copolymerization of butadiene with styrene using neodymium amide catalysts. <i>Polymer International</i> , 2004, 53, 576-581.	1.6	50
94	Evidence of Intramolecular Cyclization in Copolymerization of Ethylene with 1,3-Butadiene: Thermal Properties of the Resulting Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2004, 205, 737-742.	1.1	32
95	Highly Active Yttrium and Lanthanide Catalysts for Polymerization of Isobutene. <i>Macromolecular Rapid Communications</i> , 2004, 25, 1953-1957.	2.0	17
96	Synthesis and Characterization of Macroalkoxyamines Based on Polyethylene. <i>Macromolecules</i> , 2004, 37, 3540-3542.	2.2	48
97	Lanthanidocene Catalysts for the Homo- and Copolymerization of Ethylene with Butadiene. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 1747-1754.	1.1	52
98	Synthesis of Silica-Supported Metallocene Catalysts for Olefin Polymerization. <i>Macromolecular Chemistry and Physics</i> , 2002, 203, 2501-2507.	1.1	17
99	Investigation of Ethylene/Butadiene Copolymers Microstructure by ¹ H and ¹³ C NMR. <i>Macromolecules</i> , 2001, 34, 6304-6311.	2.2	50
100	Heterogeneous Ziegler-Natta Catalyst Based on Neodymium for the Stereospecific Polymerization of Butadiene. <i>Macromolecular Rapid Communications</i> , 2001, 22, 1411-1414.	2.0	33
101	Homogeneous and Heterogeneous Polymerization of ϵ -Caprolactone by Neodymium Alkoxides Prepared In Situ. <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 1156-1160.	1.1	41
102	Homogeneous and Heterogeneous Polymerization of ϵ -Caprolactone by Neodymium Alkoxides Prepared In Situ. <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 1156-1160.	1.1	1
103	Nitrogen-containing lanthanide complexes: initiators or real catalysts for the ϵ -caprolactone polymerisation?. <i>Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry</i> , 2000, 3, 631-638.	0.1	2
104	First Synthesis of Poly(ethene-co-1,3-butadiene) with Neodymocene Catalysts. <i>Macromolecules</i> , 2000, 33, 8521-8523.	2.2	71
105	Polymerization of butadiene with a new catalyst based on a neodymium amide precursor. <i>Macromolecular Chemistry and Physics</i> , 1999, 200, 1163-1166.	1.1	48
106	Uranium amides as precursors to cationic and/or pentavalent compounds. <i>Journal of Alloys and Compounds</i> , 1998, 271-273, 144-149.	2.8	11
107	Influence of the Nature of the Ligands on the Electronic Ground State of Organouranium(V) Compounds, Studied by Electron Paramagnetic Resonance. <i>Inorganic Chemistry</i> , 1997, 36, 5931-5936.	1.9	32
108	Synthesis of cationic Group 4 metal compounds by protonolysis of amide precursors: crystal structure of [Ti(NMe ₂) ₃ (NC ₅ H ₅) ₂][BPh ₄]. <i>Journal of Organometallic Chemistry</i> , 1997, 531, 115-119.	0.8	18

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109	Synthesis and crystal structure of $[U(\eta^5-C_5Me_5)_2(OC_4H_8)_2][BPh_4]$, the first cationic cyclopentadienyl compound of uranium(III). <i>Journal of Organometallic Chemistry</i> , 1997, 533, 7-11.	0.8	36
110	Reactivity of the cationic uranium amide compound $[U(\eta^5-C_5Me_5)_2(NMe_2)(OC_4H_8)][BPh_4]$. <i>Journal of Organometallic Chemistry</i> , 1997, 548, 9-16.	0.8	24
111	Novel ring-opening reaction of tetrahydrofuran promoted by a cationic uranium amide compound. <i>Chemical Communications</i> , 1996, , 2129.	2.2	28
112	Monocyclooctatetraene uranium amide compounds in the +4 and +5 oxidation states. <i>Journal of the Chemical Society Dalton Transactions</i> , 1996, , 947.	1.1	36

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