Christophe Boisson

List of Publications by Year
in descending order

117	3,681	117571 34	168321 53
papers	citations	h-index	g-index

127	127	127	2720
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	New Nanocomposite Materials Reinforced with Cellulose Whiskers in Atactic Polypropylene:Â Effect of Surface and Dispersion Characteristics. Biomacromolecules, 2005, 6, 2732-2739.	2.6	369
2	Polyolefins, a Success Story. Polymers, 2017, 9, 185.	2.0	156
3	Polyethylene Building Blocks by Catalyzed Chain Growth and Efficient End Functionalization Strategies, Including Click Chemistry. Angewandte Chemie - International Edition, 2008, 47, 9311-9313.	7.2	121
4	Synthesis of well-defined polymer architectures by successive catalytic olefin polymerization and living/controlled polymerization reactions. Progress in Polymer Science, 2007, 32, 419-454.	11.8	119
5	Catalyzed chain growth (CCG) on a main group metal: an efficient tool to functionalize polyethylene. Polymer Chemistry, 2010, 1, 793.	1.9	112
6	First Synthesis of Poly(ethene-co-1,3-butadiene) with Neodymocene Catalysts. Macromolecules, 2000, 33, 8521-8523.	2.2	71
7	Telechelic Polyethylene from Catalyzed Chainâ€Growth Polymerization. Angewandte Chemie - International Edition, 2013, 52, 3438-3441.	7.2	71
8	Alternating Copolymerization of Ethylene and Butadiene with a Neodymocene Catalyst. Angewandte Chemie - International Edition, 2005, 44, 2593-2596.	7.2	62
9	Completely Miscible Polyethylene Nanocomposites. Journal of the American Chemical Society, 2012, 134, 18157-18160.	6.6	60
10	New Functional Polyolefins: Towards a Bridge Between Catalytic and RAFT Polymerizations?. Macromolecular Rapid Communications, 2006, 27, 173-181.	2.0	56
11	Lanthanidocene Catalysts for the Homo- and Copolymerization of Ethylene with Butadiene. Macromolecular Chemistry and Physics, 2003, 204, 1747-1754.	1.1	52
12	Homo- and Copolymerizations of (Meth)Acrylates with Olefins (Styrene, Ethylene) Using Neutral Nickel Complexes: A Dual Radical/Catalytic Pathway. Macromolecules, 2011, 44, 3293-3301.	2.2	52
13	Investigation of Ethylene/Butadiene Copolymers Microstructure by 1H and 13C NMR. Macromolecules, 2001, 34, 6304-6311.	2.2	50
14	Polymerization of butadiene and copolymerization of butadiene with styrene using neodymium amide catalysts. Polymer International, 2004, 53, 576-581.	1.6	50
15	Wellâ€defined polyolefin/poly(Îµâ€caprolactone) diblock copolymers: New synthetic strategy and application. Journal of Polymer Science Part A, 2011, 49, 511-517.	2.5	50
16	Deciphering the Mechanism of Coordinative Chain Transfer Polymerization of Ethylene Using Neodymocene Catalysts and Dialkylmagnesium. ACS Catalysis, 2016, 6, 851-860.	5.5	50
17	Divinylâ€Endâ€Functionalized Polyethylenes: Ready Access to a Range of Telechelic Polyethylenes through Thiolâ€“Ene Reactions. Angewandte Chemie - International Edition, 2015, 54, 4631-4635.	7.2	49
18	Polymerization of butadiene with a new catalyst based on a neodymium amide precursor. Macromolecular Chemistry and Physics, 1999, 200, 1163-1166.	1.1	48

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19	Synthesis and Characterization of Macroalkoxyamines Based on Polyethylene. Macromolecules, 2004, 37, 3540-3542.	2.2	48
20	Use of a Lewis Acid Surfactant Combined Catalyst in Cationic Polymerization in Miniemulsion:Â Apparent and Hidden Initiators. Macromolecules, 2004, 37, 3136-3142.	2.2	46
21	Catalyzed chain growth of polyethylene on magnesium for the synthesis of macroalkoxyamines: Application to the production of block copolymers using controlled radical polymerization. Journal of Polymer Science Part A, 2007, 45, 2705-2718.	2.5	44
22	Silica/MAO/(n-BuCp)₂ZrCl₂ catalyst: effect of support dehydroxylation temperature on the grafting of MAO and ethylene polymerization. Catalysis Science and Technology, 2016, 6, 2962-2974.	2.1	44
23	Synthesis of cationic uranium compounds by protonolysis of amide precursors: cyclopentadienyl and cyclooctatetraene complexes. Journal of the Chemical Society Dalton Transactions, 1995, , 3027.	1.1	43
24	Homogeneous and Heterogeneous Polymerization ofÉ›-Caprolactone by Neodymium Alkoxides Prepared In Situ. Macromolecular Chemistry and Physics, 2001, 202, 1156-1160.	1.1	41
25	Synthesis of cationic uranium compounds by protonolysis of amide precursors: amide and chloroamide complexes. Journal of the Chemical Society Dalton Transactions, 1995, , 3019.	1.1	38
26	ansa-Bis(fluorenyl)neodymium Catalysts for Cyclocopolymerization of Ethylene with Butadiene. Macromolecules, 2009, 42, 3774-3779.	2.2	38
27	Di- and Triblock Copolymers Based on Polyethylene and Polyisobutene Blocks. Toward New Thermoplastic Elastomers. Macromolecules, 2013, 46, 3417-3424.	2.2	38
28	Polyboramines for Hydrogen Release: Polymers Containing Lewis Pairs in their Backbone. Angewandte Chemie - International Edition, 2015, 54, 15744-15749.	7.2	38
29	Grafting of polyethylene onto graphite oxide sheets: a comparison of two routes. Polymer Chemistry, 2013, 4, 2828.	1.9	37
30	Ethyleneâ€“Butadiene Copolymerization by Neodymocene Complexes: A Ligand Structure/Activity/Polymer Microstructure Relationship Based on DFT Calculations. ACS Catalysis, 2016, 6, 1028-1036.	5.5	37
31	Monocyclooctatetraene uranium amide compounds in the +4 and +5 oxidation states. Journal of the Chemical Society Dalton Transactions, 1996, , 947.	1.1	36
32	Synthesis and crystal structure of [U(Î·-C5Me5)2(OC4H8)2][BPh4], the first cationic cyclopentadienyl compound of uranium(III). Journal of Organometallic Chemistry, 1997, 533, 7-11.	0.8	36
33	Thiol-End-Functionalized Polyethylenes. Macromolecules, 2010, 43, 7495-7503.	2.2	36
34	Polyethylene End Functionalization Using Radical-Mediated Thiolâ€'Ene Chemistry: Use of Polyethylenes Containing Alkene End Functionality. Macromolecules, 2011, 44, 3381-3387.	2.2	35
35	Synthesis, crystal structure and some derivatives of the chlorotris(tetramethylphospholyl)uranium. Journal of the Chemical Society Chemical Communications, 1992, , 1720.	2.0	34
36	Catalytic olefin polymerisation at short times: Studies using specially adapted reactors. Canadian Journal of Chemical Engineering, 2013, 91, 669-686.	0.9	34

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37	Heterogeneous Ziegler-Natta Catalyst Based on Neodymium for the Stereospecific Polymerization of Butadiene. Macromolecular Rapid Communications, 2001, 22, 1411-1414.	2.0	33
38	Synthesis of organouranium(V) compounds by oxidation of neutral tetravalent precursors. Crystal structures of [U(Î·-C5Me5)(NMe2)3(OC4H8)][BPh4] and [U(Î·-C5Me5)2(NEt2)2][BPh4], the first cationic uranium(V) complexes. Journal of the Chemical Society Chemical Communications, 1995, , 543-544.	2.0	32
39	Influence of the Nature of the Ligands on the Electronic Ground State of Organouranium(V) Compounds, Studied by Electron Paramagnetic Resonance. Inorganic Chemistry, 1997, 36, 5931-5936.	1.9	32
40	Evidence of Intramolecular Cyclization in Copolymerization of Ethylene with 1,3-Butadiene: Thermal Properties of the Resulting Copolymers. Macromolecular Chemistry and Physics, 2004, 205, 737-742.	1.1	32
41	A RAFT Analogue Olefin Polymerization Technique Using Coordination Chemistry. Australian Journal of Chemistry, 2010, 63, 1155.	0.5	32
42	Microphase Separation and Crystallization in H-Bonding End-Functionalized Polyethylenes. Macromolecules, 2015, 48, 3257-3268.	2.2	32
43	Unusual activation by solvent of the ethylene free radical polymerization. Polymer Chemistry, 2011, 2, 2328.	1.9	31
44	Poly(ethylene) brushes grafted to silicon substrates. Polymer Chemistry, 2012, 3, 1838-1845.	1.9	31
45	Free Radical Copolymerization of Ethylene with Vinyl Acetate under Mild Conditions. Macromolecules, 2017, 50, 3516-3523.	2.2	31
46	Amino End-Functionalized Polyethylenes and Corresponding Telechelics by Coordinative Chain Transfer Polymerization. Macromolecules, 2017, 50, 8372-8377.	2.2	31
47	Role of Silica Properties in the Polymerisation of Ethylene Using Supported Metallocene Catalysts. Macromolecular Chemistry and Physics, 2010, 211, 91-102.	1.1	30
48	Synthesis of Block Copolymers Based on Polyethylene by Thermally Induced Controlled Radical Polymerization Using Mn₂(CO)₁₀. Macromolecular Chemistry and Physics, 2015, 216, 958-963.	1.1	30
49			

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55	Synthesis of dihydroxy poly(ethylene-co-butadiene) via metathetical depolymerization: Kinetic and mechanistic aspects. Polymer, 2008, 49, 4935-4941.	1.8	27
56	Polyethylenes bearing a terminal porphyrin group. Chemical Communications, 2011, 47, 7057.	2.2	26
57	Synthesis of Cyclopentadienyl Capped Polyethylene and Subsequent Block Copolymer Formation Via Hetero Dielsâ€Alder (HDA) Chemistry. Macromolecular Rapid Communications, 2011, 32, 1447-1453.	2.0	26
58	Reactivity of the cationic uranium amide compound [U(Î·-C5Me5)2(NMe2)(OC4H8)][BPh4]. Journal of Organometallic Chemistry, 1997, 548, 9-16.	0.8	24
59	Advances and Limits in Copolymerization of Olefins with Conjugated Dienes. Macromolecular Symposia, 2005, 226, 17-24.	0.4	24
60	Small Changes Have Consequences: Lessons from Tetrabenzyltitanium and â€zirconium Surface Organometallic Chemistry. Chemistry - A European Journal, 2013, 19, 964-973.	1.7	24
61	Polyethylene Aerogels with Combined Physical and Chemical Crosslinking: Improved Mechanical Resilience and Shapeâ€Memory Properties. Angewandte Chemie - International Edition, 2019, 58, 15883-15889.	7.2	24
62	Polyethylene end functionalization using thia-Michael addition chemistry. Polymer Chemistry, 2012, 3, 2383.	1.9	23
63	Borate and MAO Free Activating Supports for Metallocene Complexes. ACS Catalysis, 2013, 3, 2288-2293.	5.5	21
64	The design of a bipodal bis(pentafluorophenoxy)aluminate supported on silica as an activator for ethylene polymerization using surface organometallic chemistry. Chemical Communications, 2016, 52, 4776-4779.	2.2	21
65	Characterization of the Chemical Composition Distribution of Ethylene/1â€Alkene Copolymers with HPLC and CRYSTAFâ€”Comparison of Results. Macromolecular Chemistry and Physics, 2015, 216, 721-732.	1.1	20
66	Neutral ansa-bis(fluorenyl)silane neodymium borohydrides: synthesis, structural study and behaviour as catalysts in butadieneâ€“ethylene copolymerisation. New Journal of Chemistry, 2010, 34, 2290.	1.4	19
67	Block copolymers via macromercaptan initiated ring opening polymerization. Journal of Polymer Science Part A, 2011, 49, 803-813.	2.5	19
68	Experimental proof of the existence of massâ€transfer resistance during early stages of ethylene polymerization with silica supported metallocene/MAO catalysts. AICHE Journal, 2017, 63, 4476-4490.	1.8	19
69	Synthesis of cationic Group 4 metal compounds by protonolysis of amide precursors: crystal structure of [Ti(NMe2)3(NC5H5)2][BPh4]. Journal of Organometallic Chemistry, 1997, 531, 115-119.	0.8	18
70	Aqueous Dispersions of Nonspherical Polyethylene Nanoparticles from Freeâ€Radical Polymerization under Mild Conditions. Angewandte Chemie - International Edition, 2010, 49, 6810-6812.	7.2	18
71	Well-Defined Silica-Supported Zirconium-Benzyl Cationic Species: Improved Heterogenization of Single-Site Polymerization Catalysts. European Journal of Inorganic Chemistry, 2014, 2014, 888-895.	1.0	18
72	Synthesis of Silica-Supported Metallocene Catalysts for Olefin Polymerization. Macromolecular Chemistry and Physics, 2002, 203, 2501-2507.	1.1	17

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73	Highly Active Yttrium and Lanthanide Catalysts for Polymerization of Isobutene. Macromolecular Rapid Communications, 2004, 25, 1953-1957.	2.0	17
74	Supercritical behavior in free radical polymerization of ethylene in the medium pressure range. Physical Chemistry Chemical Physics, 2010, 12, 11665.	1.3	17
75	Synthesis of polyethyleneâ€grafted multiwalled carbon nanotubes via a peroxideâ€initiating radical coupling reaction and by using wellâ€defined TEMPO and thiol endâ€functionalized polyethylenes. Journal of Polymer Science Part A, 2011, 49, 957-965.	2.5	17
76	Dialkenylmagnesium Compounds in Coordinative Chain Transfer Polymerization of Ethylene. Reversible Chain Transfer Agents and Tools To Probe Catalyst Selectivities toward Ring Formation. Organometallics, 2018, 37, 1546-1554.	1.1	16
77	Alkynyl Ether Labeling: A Selective and Efficient Approach to Count Active Sites of Olefin Polymerization Catalysts. ACS Catalysis, 2019, 9, 3098-3103.	5.5	15
78	A Thermomorphic Polyethyleneâ€Supported Imidazolium Salt for the Fixation of CO₂ into Cyclic Carbonates. Advanced Synthesis and Catalysis, 2020, 362, 1696-1705.	2.1	15
79	Homogeneous Copolymers of Ethylene with Î±â€olefins Synthesized with Metallocene Catalysts and Their Use as Standards for <scp>TREF</scp> Calibration. Macromolecular Symposia, 2013, 330, 42-52.	0.4	14
80	Identification of a Transient but Key Motif in the Living Coordinative Chain Transfer Cyclocopolymerization of Ethylene with Butadiene. ACS Catalysis, 2019, 9, 9298-9309.	5.5	14
81	Enhanced Spin Capturing Polymerization of Ethylene. Macromolecules, 2013, 46, 29-36.	2.2	13
82	Monofunctional and Telechelic Polyethylenes Carrying Phosphonic Acid End Groups. Macromolecular Rapid Communications, 2018, 39, e1800154.	2.0	12
83	Uranium amides as precursors to cationic and/or pentavalent compounds. Journal of Alloys and Compounds, 1998, 271-273, 144-149.	2.8	11
84	Activation and Deactivation of the Polymerization of Ethylene over racâ€EtInd₂ZrCl₂ and (nBuCp)₂ZrCl₂ on an Activating Silica Support. Macromolecular Chemistry and Physics, 2014, 215, 1358-1369.	1.1	11
85	One-pot syntheses of heterotelechelic Î±-vinyl,Ï‰-methoxysilane polyethylenes and condensation into comb-like and star-like polymers with high chain end functionality. Polymer Chemistry, 2020, 11, 3884-3891.	1.9	11
86	Engineering Poly(ethylene-co-1-butene) through Modulating the Active Species by Alkylaluminum. ACS Catalysis, 2020, 10, 7216-7229.	5.5	11
87	Thermomorphic Polyethyleneâ€Supported Organocatalysts for the Valorization of Vegetable Oils and CO₂. Advanced Sustainable Systems, 2021, 5, 2000218.	2.7	11
88	Design of selective divalent chain transfer agents for coordinative chain transfer polymerization of ethylene and its copolymerization with butadiene. Polymer Chemistry, 2022, 13, 1970-1977.	1.9	11
89	Switch from Anionic Polymerization to Coordinative Chain Transfer Polymerization: A Valuable Strategy to Make Olefin Block Copolymers. Angewandte Chemie - International Edition, 2022, 61, .	7.2	11
90	A systematic study of the kinetics of polymerisation of ethylene using supported metallocene catalysts. Chemical Engineering Journal, 2010, 157, 194-203.	6.6	10

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91	Active and Recyclable Polyethyleneâ€Supported Iridiumâ€(Nâ€•Heterocyclic Carbene) Catalyst for Hydrogen/Deuterium Exchange Reactions. Advanced Synthesis and Catalysis, 2016, 358, 2317-2323.	2.1	10
92	Avoiding leaching of silica supported metallocenes in slurry phase ethylene homopolymerization. Reaction Chemistry and Engineering, 2017, 2, 521-530.	1.9	10
93	Characterization of Ethylene methyl methacrylate and Ethylene butylacrylate Copolymers with Interactive Liquid Chromatography. Macromolecular Symposia, 2010, 298, 191-199.	0.4	9
94	An Advanced Technique for Linear Lowâ€Density Polyethylene Composition Determination: TGAâ€“IST16â€“GCâ€“MS Coupling. Macromolecular Chemistry and Physics, 2019, 220, 1900162.	1.1	9
95	Molecular Dynamics Simulation of Ethylene/Hexene Copolymer Adsorption onto Graphene: New Insight into Thermal Gradient Interaction Chromatography. Macromolecular Chemistry and Physics, 2019, 220, 1800496.	1.1	9
96	Synthesis of copolymers of ethylene and (meth)acrylates or styrene by an original dual radical/catalytic mechanism. Pure and Applied Chemistry, 2012, 84, 2113-2120.	0.9	8
97	New insights on Ni-based catalysts for stereospecific polymerization of butadiene. Polymer Chemistry, 2012, 3, 1490.	1.9	8
98	Monocationic Bis-Alkyl and Bis-Allyl Yttrium Complexes: Synthesis, ⁸⁹Y NMR Characterization, Ethylene or Isoprene Polymerization, and Modeling. Organometallics, 2021, 40, 218-230.	1.1	8
99	Site count: is a high-pressure quenched-flow reactor suitable for kinetic studies of molecular catalysts in ethylene polymerization?. Dalton Transactions, 2013, 42, 9049.	1.6	7
100	A new straightforward method for measuring xylene soluble for high impact polypropylene. Canadian Journal of Chemical Engineering, 2017, 95, 939-943.	0.9	6
101	Titanium-based phenoxy-imine catalyst for selective ethylene trimerization: effect of temperature on the activity, selectivity and properties of polymeric side products. Catalysis Science and Technology, 2020, 10, 1602-1608.	2.1	6
102	Ene/Diene Copolymerization Catalyzed by Cationic Sc and Gd d⁰ Metal Complexes: Speciation, Ion Pairing, and Selectivity from a Computational Perspective. ACS Catalysis, 2020, 10, 12359-12369.	5.5	6
103	Organocatalytic Synthesis of Substituted Vinylene Carbonates. Advanced Synthesis and Catalysis, 2021, 363, 5129-5137.	2.1	5
104	Switch from Anionic Polymerization to Coordinative Chain Transfer Polymerization: A Valuable Strategy to Make Olefin Block Copolymers. Angewandte Chemie, 2022, 134, .	1.6	4
105	Silica/Methylaluminoxane/(nâ€BuCp)₂ZrCl₂: Effect of Silica Dehydroxylation Temperature on HDPE Morphology. Macromolecular Symposia, 2016, 360, 61-68.	0.4	3
106	Preparation of monopodal and bipodal aluminum surface species by selective protonolysis of highly reactive [AlH3(NMe2Et)] on silica. Dalton Transactions, 2017, 46, 11547-11551.	1.6	3
107	Rapid Determination of the Chemical Composition of Ethylene/Butadiene Copolymers Using FTIR Spectroscopy and Chemometrics. Macromolecular Chemistry and Physics, 2018, 219, 1700609.	1.1	3
108	Light induced polyethylene ligation. Polymer Chemistry, 2018, 9, 3633-3637.	1.9	3

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109	Polyethylene Aerogels with Combined Physical and Chemical Crosslinking: Improved Mechanical Resilience and Shapeâ€Memory Properties. Angewandte Chemie, 2019, 131, 16030-16036.	1.6	3
110	Cationic Phenoxyimine Complexes of Yttrium: Synthesis, Characterization, and Living Polymerization of Isoprene. Organometallics, 2022, 41, 2106-2118.	1.1	3
111	Nitrogen-containing lanthanide complexes: initiators or real catalysts for the Îµ-caprolactone polymerisation?. Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry, 2000, 3, 631-638.	0.1	2
112	Specialised tools for a better comprehension of olefin polymerisation reactors. Macromolecular Symposia, 2013, 333, 233-241.	0.4	2
113	The effect of aluminum alkyls and <scp>BHT</scp>â€<scp>H</scp> on reaction kinetics of silica supported metallocenes and polymer properties in slurry phase ethylene polymerization. Journal of Applied Polymer Science, 2018, 135, 45670.	1.3	2
114	Coordinative chain transfer copolymerization of ethylene and styrene using an ansa-bis(fluorenyl) neodymium complex and dialkylmagnesium. Polymer Chemistry, 2018, 9, 3262-3271.	1.9	2
115	Chemical Composition of Hexeneâ€Based Linear Lowâ€Density Polyethylene by Infrared Spectroscopy and Chemometrics. Macromolecular Chemistry and Physics, 2019, 220, 1900376.	1.1	1
116	Homogeneous and Heterogeneous Polymerization of -Caprolactone by Neodymium Alkoxides Prepared In Situ. Macromolecular Chemistry and Physics, 2001, 202, 1156-1160.	1.1	1
117	Synthesis of copolyamides based on PA 66 bearing lithium sulfonate groups and having unique thermal properties. Journal of Polymer Science Part A, 2011, 49, 5057-5062.	2.5	0