Brian K Long

List of Publications by Year
in descending order

55	2,120	257450	233421
papers	citations	24 h-index	45 g-index

56	56	56	1572
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Robust Ni(II) Î±-Diimine Catalyst for High Temperature Ethylene Polymerization. Journal of the American Chemical Society, 2013, 135, 16316-16319.	13.7	314
2	Semiâ€Crystalline Polar Polyethylene: Esterâ€Functionalized Linear Polyolefins Enabled by a Functionalâ€Groupâ€Tolerant, Cationic Nickel Catalyst. Angewandte Chemie - International Edition, 2016, 55, 7106-7110.	13.8	198
3	Enhancing Î±-Diimine Catalysts for High-Temperature Ethylene Polymerization. ACS Catalysis, 2014, 4, 2501-2504.	11.2	169
4	Degradable Cross-Linkers and Strippable Imaging Materials for Step-and-Flash Imprint Lithography. Macromolecules, 2008, 41, 719-726.	4.8	124
5	Redox-Active Ligands: An Advanced Tool To Modulate Polyethylene Microstructure. Journal of the American Chemical Society, 2016, 138, 774-777.	13.7	112
6	Recent developments in redox-active olefin polymerization catalysts. Coordination Chemistry Reviews, 2018, 372, 141-152.	18.8	84
7	Materials for step and flash imprint lithography (S-FILÂ®). Journal of Materials Chemistry, 2007, 17, 3575.	6.7	78
8	Semiâ€Crystalline Polar Polyethylene: Esterâ€Functionalized Linear Polyolefins Enabled by a Functionalâ€Groupâ€Tolerant, Cationic Nickel Catalyst. Angewandte Chemie, 2016, 128, 7222-7226.	2.0	71
9	Advances in Polymerizations Modulated by External Stimuli. ACS Catalysis, 2020, 10, 14457-14515.	11.2	67
10	Fundamental Optical Properties of Linear and Cyclic Alkanes: VUV Absorbance and Index of Refraction. Journal of Physical Chemistry A, 2009, 113, 9337-9347.	2.5	56
11	Effects of Ferrocenyl Proximity and Monomer Presence during Oxidation for the Redox-Switchable Polymerization of <scp>l</scp>-Lactide. ACS Catalysis, 2015, 5, 6057-6060.	11.2	50
12	Accessing Siloxane Functionalized Polynorbornenes via Vinyl-Addition Polymerization for CO₂ Separation Membranes. ACS Macro Letters, 2016, 5, 879-883.	4.8	46
13	Elimination of CO₂/N₂ Langmuir Sorption and Promotion of â€œN₂-Phobicityâ€•within High-T_g Glassy Membranes. Macromolecules, 2019, 52, 1589-1600.	4.8	43
14	Photochemical regulation of a redox-active olefin polymerization catalyst: controlling polyethylene microstructure with visible light. Polymer Chemistry, 2018, 9, 1567-1570.	3.9	42
15	Recent advances in thermally robust, late transition metalâ€catalyzed olefin polymerization. Polymer International, 2019, 68, 14-26.	3.1	42
16	Design of Reversible Cross-Linkers for Step and Flash Imprint Lithography Imprint Resists. ACS Nano, 2007, 1, 307-312.	14.6	40
17	Substituted polynorbornene membranes: a modular template for targeted gas separations. Polymer Chemistry, 2021, 12, 2947-2977.	3.9	39
18	Modulating Polyolefin Copolymer Composition via Redox-Active Olefin Polymerization Catalysts. ACS Macro Letters, 2016, 5, 1029-1033.	4.8	38

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19	Impact of tuning CO2-philicity in polydimethylsiloxane-based membranes for carbon dioxide separation. Journal of Membrane Science, 2017, 530, 213-219.	8.2	31
20	A detailed investigation into the gas permeation properties of addition-type poly(5-triethoxysilyl-2-norbornene). European Polymer Journal, 2017, 93, 602-611.	5.4	29
21	High Temperature, Living Polymerization of Ethylene by a Sterically-Demanding Nickel(II) Î±-Diimine Catalyst. Polymers, 2018, 10, 41.	4.5	29
22	Addition-type alkoxysilyl-substituted polynorbornenes for post-combustion carbon dioxide separations. Journal of Membrane Science, 2020, 595, 117532.	8.2	27
23	Accessing multiple polyethylene grades via a single redox-active olefin polymerization catalyst. Inorganic Chemistry Frontiers, 2017, 4, 1108-1112.	6.0	26
24	BIANâ€Fe(Î· 6 â€C 6 H 6): Synthesis, characterization, and lâ€lactide polymerization. Journal of Polymer Science Part A, 2017, 55, 2824-2830.	2.3	26
25	Gas separation mechanism of CO₂ selective amidoxime-poly(1-trimethylsilyl-1-propyne) membranes. Polymer Chemistry, 2017, 8, 3341-3350.	3.9	25
26	Mitigating chainâ€transfer and enhancing the thermal stability of coâ€based olefin polymerization catalysts through sterically demanding ligands. Journal of Polymer Science Part A, 2017, 55, 3990-3995.	2.3	25
27	Synthesis of Enantiomerically Pure Lignin Dimer Models for Catalytic Selectivity Studies. Journal of Organic Chemistry, 2015, 80, 1771-1780.	3.2	22
28	Effect of Crossâ€Link Density on Carbon Dioxide Separation in Polydimethylsiloxaneâ€Norbornene Membranes. ChemSusChem, 2015, 8, 3595-3604.	6.8	21
29	Structural changes in lignocellulosic biomass during activation with ionic liquids comprising 3-methylimidazolium cations and carboxylate anions. Biotechnology for Biofuels, 2018, 11, 265.	6.2	19
30	An Î·³â€Bound Allyl Ligand on Magnesium in a Mechanochemically Generated Mg/K Allyl Complex. Angewandte Chemie - International Edition, 2020, 59, 9542-9548.	13.8	18
31	A mechanistic study of microstructure modulation in olefin polymerizations using a redox-active Ni(<scp>ii</scp>) Î±-diimine catalyst. Catalysis Science and Technology, 2020, 10, 2029-2039.	4.1	16
32	Linking design and properties of purine-based donorâ€“acceptor chromophores as optoelectronic materials. Journal of Materials Chemistry C, 2017, 5, 6891-6898.	5.5	15
33	Promoting acid gas separations via strategic alkoxysilyl substitution of vinyl-added poly(norbornene)s. Journal of Membrane Science, 2020, 616, 118569.	8.2	15
34	Redox-switchable ring-opening polymerization by tridentate ONN-type titanium and zirconium catalysts. Catalysis Science and Technology, 2020, 10, 6501-6510.	4.1	15
35	Redox Potential as a Predictor of Polyethylene Branching Using Nickel Î±-Diimine Catalysts. ACS Catalysis, 2022, 12, 73-81.	11.2	14
36	The Intrinsic Mechanochemical Reactivity of Vinylâ€Addition Polynorbornene. Angewandte Chemie - International Edition, 2019, 58, 5639-5642.	13.8	12

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37	Vinyl-addition polymerizations of cycloallenes: synthetic access to congeners of cyclic-olefin polymers. Polymer Chemistry, 2020, 11, 5578-5581.	3.9	12
38	Protein Extraction Efficiency and Selectivity of Esterified Styreneâ€“Maleic Acid Copolymers in Thylakoid Membranes. Biomacromolecules, 2021, 22, 2544-2553.	5.4	12
39	Poling and crosslinking processes in NLO polymers. Journal of Polymer Science Part A, 2014, 52, 2769-2775.	2.3	10
40	Evaluating the impact of functional groups on membraneâ€mediated <scp>CO₂</scp>/<scp>N₂</scp> gas separations using a common polymer backbone. Journal of Polymer Science, 2020, 58, 2644-2653.	3.8	10
41	An Î· 3 â€Bound Allyl Ligand on Magnesium in a Mechanochemically Generated Mg/K Allyl Complex. Angewandte Chemie, 2020, 132, 9629-9635.	2.0	10
42	Enantioselective Syntheses of Lignin Models: An Efficient Synthesis of Î²â€Oâ€4 Dimers and Trimers by Using the Evans Chiral Auxiliary. Chemistry - A European Journal, 2016, 22, 12506-12517.	3.3	9
43	Design, synthesis, and characterization of vinyl-addition polynorbornenes with tunable thermal properties. Polymer Chemistry, 2021, 12, 5831-5841.	3.9	9
44	Synthesis and Characterization of Norbornanediol Isomers and Their Fluorinated Analogues. Journal of Organic Chemistry, 2006, 71, 341-344.	3.2	8
45	Vinyl-Addition Fluoroalkoxysilyl-Substituted Polynorbornene Membranes for CO₂/CH₄ Separation. ACS Applied Polymer Materials, 2022, 4, 7976-7988.	4.4	8
46	Synthesis of Main Chain Purine-Based Copolymers and Effects of Monomer Design on Thermal and Optical Properties. ACS Macro Letters, 2016, 5, 682-687.	4.8	7
47	Mechanochemical Formation, Solution Rearrangements, and Catalytic Behavior of a Polymorphic Ca/K Allyl Complex. Chemistry - A European Journal, 2021, 27, 8195-8202.	3.3	7
48	Highly Permeable Oligo(ethylene oxide)â€co â€poly(dimethylsiloxane) Membranes for Carbon Dioxide Separation. Advanced Sustainable Systems, 2018, 2, 1700113.	5.3	6
49	Cellulose nanocrystal-reinforced poly(5-triethoxysilyl-2-norbornene) composites. Polymer Chemistry, 2020, 11, 433-438.	3.9	5
50	The Intrinsic Mechanochemical Reactivity of Vinylâ€Addition Polynorbornene. Angewandte Chemie, 2019, 131, 5695-5698.	2.0	3
51	Effect of Cross-Link Density on Carbon Dioxide Separation in Polydimethylsiloxane-Norbornene Membranes. ChemSusChem, 2015, 8, 3524-3524.	6.8	2
52	Fundamental investigations into the freeâ€radical copolymerization of N â€phenylmaleimide and norbornene. Journal of Polymer Science Part A, 2016, 54, 985-991.	2.3	2
53	Correction to Accessing Siloxane Functionalized Polynorbornenes via Vinyl-Addition Polymerization for CO₂ Separation Membranes. ACS Macro Letters, 2017, 6, 41-41.	4.8	1
54	Carbon Dioxide Separation: Highly Permeable Oligo(ethylene oxide)-co -poly(dimethylsiloxane) Membranes for Carbon Dioxide Separation (Adv. Sustainable Syst. 4/2018). Advanced Sustainable Systems, 2018, 2, 1870030.	5.3	1

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55	Polar comonomer incorporation using cationic Ni Î±-diimine olefin polymerization catalysts. Science China Chemistry, 2019, 62, 153-154.	8.2	0