

Stefan Naumann

List of Publications by Year in descending order

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papers

1,574
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279701

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	N-Heterocyclic carbenes as organocatalysts for polymerizations: trends and frontiers. <i>Polymer Chemistry</i> , 2015, 6, 3185-3200.	1.9	118
2	Dual Catalysis for Selective Ring-Opening Polymerization of Lactones: Evolution toward Simplicity. <i>Journal of the American Chemical Society</i> , 2015, 137, 14439-14445.	6.6	118
3	N-Heterocyclic Olefins as Organocatalysts for Polymerization: Preparation of Well-Defined Poly(propylene oxide). <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9550-9554.	7.2	105
4	Liberation of N-heterocyclic carbenes (NHCs) from thermally labile progenitors: protected NHCs as versatile tools in organo- and polymerization catalysis. <i>Catalysis Science and Technology</i> , 2014, 4, 2466-2479.	2.1	101
5	Latent and Delayed Action Polymerization Systems. <i>Macromolecular Rapid Communications</i> , 2014, 35, 682-701.	2.0	81
6	Synthesis, properties & applications of N-heterocyclic olefins in catalysis. <i>Chemical Communications</i> , 2019, 55, 11658-11670.	2.2	77
7	Lewis Pair Polymerization of Epoxides via Zwitterionic Species as a Route to High-Molar-Mass Polyethers. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10737-10741.	7.2	77
8	Highly Polarized Alkenes as Organocatalysts for the Polymerization of Lactones and Trimethylene Carbonate. <i>ACS Macro Letters</i> , 2016, 5, 134-138.	2.3	76
9	<i>N</i> -Heterocyclic Olefin-Based (Co)polymerization of a Challenging Monomer: Homopolymerization of ϵ -Pentadecalactone and Its Copolymers with β -Butyrolactone, γ -Valerolactone, and ϵ -Caprolactone. <i>Macromolecules</i> , 2017, 50, 8406-8416.	2.2	76
10	Protected N-heterocyclic carbenes as latent pre-catalysts for the polymerization of ϵ -caprolactone. <i>Polymer Chemistry</i> , 2013, 4, 4172.	1.9	67
11	N-Heterocyclic carbenes for metal-free polymerization catalysis: an update. <i>Polymer International</i> , 2016, 65, 16-27.	1.6	55
12	Polymerization of methyl methacrylate by latent pre-catalysts based on CO ₂ -protected N-heterocyclic carbenes. <i>Polymer Chemistry</i> , 2013, 4, 2731.	1.9	51
13	Polymerization of ϵ -Caprolactam by Latent Precatalysts Based on Protected N-Heterocyclic Carbenes. <i>ACS Macro Letters</i> , 2013, 2, 609-612.	2.3	50
14	Dual Catalysis Based on N-Heterocyclic Olefins for the Copolymerization of Lactones: High Performance and Tunable Selectivity. <i>Macromolecules</i> , 2016, 49, 8869-8878.	2.2	50
15	Polarized olefins as enabling (co)catalysts for the polymerization of β -butyrolactone. <i>Polymer Chemistry</i> , 2018, 9, 3674-3683.	1.9	50
16	Air Stable and Latent Single-Component Curing of Epoxy/Anhydride Resins Catalyzed by Thermally Liberated <i>N</i> -Heterocyclic Carbenes. <i>Macromolecules</i> , 2014, 47, 4548-4556.	2.2	42
17	Anionic Ring-Opening Homo- and Copolymerization of Lactams by Latent, Protected N-Heterocyclic Carbenes for the Preparation of PA 12 and PA 6/12. <i>Macromolecules</i> , 2013, 46, 8426-8433.	2.2	40
18	Application of imidazolium salts and N-heterocyclic olefins for the synthesis of anionic and neutral tungsten imido alkylidene complexes. <i>Chemical Communications</i> , 2016, 52, 6099-6102.	2.2	38

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19	Proton Affinities of N-Heterocyclic Olefins and Their Implications for Organocatalyst Design. <i>Journal of Organic Chemistry</i> , 2019, 84, 2209-2218.	1.7	36
20	Controlled preparation of amphiphilic triblock-copolyether in a metal- and solvent-free approach for tailored structure-directing agents. <i>Chemical Communications</i> , 2018, 54, 2220-2223.	2.2	31
21	Regioselective Cyclopolymerization of 1,7-Octadiynes. <i>Macromolecules</i> , 2011, 44, 8380-8387.	2.2	29
22	The Lewis Pair Polymerization of Lactones Using Metal Halides and N-Heterocyclic Olefins: Theoretical Insights. <i>Molecules</i> , 2018, 23, 432.	1.7	27
23	N-Heterocyclic olefins as initiators for the polymerization of (meth)acrylic monomers: a combined experimental and theoretical approach. <i>Polymer Chemistry</i> , 2017, 8, 5803-5812.	1.9	26
24	Dual Catalytic Ring-Opening Polymerization of Ethylene Carbonate for the Preparation of Degradable PEG. <i>Biomacromolecules</i> , 2020, 21, 2661-2669.	2.6	23
25	Synthesis of Linear Poly(oxazolidin-2-one)s by Cooperative Catalysis Based on <i>N</i> -Heterocyclic Carbenes and Simple Lewis Acids. <i>Macromolecules</i> , 2019, 52, 487-494.	2.2	17
26	A simplified approach for the metal-free polymerization of propylene oxide. <i>RSC Advances</i> , 2020, 10, 43389-43393.	1.7	15
27	Darstellung von hochmolekularen Polyethern durch die zwitterionische Lewis-Paar-Polymerisation von Epoxiden. <i>Angewandte Chemie</i> , 2019, 131, 10848-10852.	1.6	14
28	Controlled Synthesis of α -Reverse Pluronic β -Type Block Copolyethers with High Molar Masses for the Preparation of Hydrogels with Improved Mechanical Properties. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 1900437.	1.1	12
29	Protected N-heterocyclic carbenes as latent organocatalysts for the low-temperature curing of anhydride-hardened epoxy resins. <i>European Polymer Journal</i> , 2017, 95, 766-774.	2.6	10
30	Ordered Mesoporous Carbons via Self-Assembly of Tailored Block Copolyethers for Pore Size-Dependent Applications. <i>ACS Applied Nano Materials</i> , 2021, 4, 3486-3492.	2.4	9
31	Latent CO ₂ -Protected <i>N</i> -Heterocyclic Carbene-Based Single-Component System-Derived Epoxy/Glass Fiber Composites. <i>Macromolecular Materials and Engineering</i> , 2015, 300, 937-943.	1.7	8
32	In Situ Copolymerization of Lactams for Melt Spinning. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 423-428.	1.7	8
33	Convenient preparation of high molecular weight poly(dimethylsiloxane) using thermally latent NHC-catalysis: a structure-activity correlation. <i>Beilstein Journal of Organic Chemistry</i> , 2015, 11, 2261-2266.	1.3	5
34	A comparison of zwitterionic and anionic mechanisms in the dual-catalytic polymerization of lactide. <i>Polymer Chemistry</i> , 2021, 12, 5320-5327.	1.9	5
35	Ultrahigh-Molecular-Weight Poly(propylene oxide): Preparation and Perspectives. <i>Synlett</i> , 2020, 31, 641-647.	1.0	4
36	Strategies for Pore-Diameter Control in Mesoporous Carbons Derived from Organic Self-Assembly Processes. <i>Organic Materials</i> , 2021, 03, 283-294.	1.0	2

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37	Base Catalysts for Organopolymerization. RSC Polymer Chemistry Series, 2018, , 121-197.	0.1	2
38	Predictive design of ordered mesoporous silica with well-defined, ultra-large mesopores. Molecular Systems Design and Engineering, 2022, 7, 1318-1326.	1.7	2
39	Dual catalysis with an N-heterocyclic carbene and a Lewis acid: Thermally latent precatalyst for the polymerization of ϵ -caprolactam. Journal of Polymer Science, 2020, 58, 3219-3226.	2.0	1