

Literaturnachweise zum Beitrag

Einführung in die Gruppentransferpolymerisation

1. Webster, O. W., Hertler, W. R., Sogah, D. Y., Farnham, W. B. & RajanBabu, T. V. Group-transfer polymerization. 1. A new concept for addition polymerization with organosilicon initiators. *J. Am. Chem. Soc.* **105**, 5706–5708; 10.1021/ja00355a039 (1983).
2. Webster, O. W. The discovery and commercialization of group transfer polymerization. *J. Polym. Sci. A Polym. Chem.* **38**, 2855–2860; 10.1002/1099-0518(20000815)38:16<2855::AID-POLA10>3.0.CO;2-S (2000).
3. Adams, F., Pahl, P. & Rieger, B. Metal-Catalyzed Group-Transfer Polymerization. A Versatile Tool for Tailor-Made Functional (Co)Polymers. *Chemistry (Weinheim an der Bergstrasse, Germany)* **24**, 509–518; 10.1002/chem.201703965 (2018).
4. Soller, B. S., Salzinger, S. & Rieger, B. Rare Earth Metal-Mediated Precision Polymerization of Vinylphosphonates and Conjugated Nitrogen-Containing Vinyl Monomers. *Chemical reviews* **116**, 1993–2022; 10.1021/acs.chemrev.5b00313 (2016).
5. Zhang, N., Salzinger, S., Soller, B. S. & Rieger, B. Rare earth metal-mediated group-transfer polymerization. From defined polymer microstructures to high-precision nano-scaled objects. *Journal of the American Chemical Society* **135**, 8810–8813; 10.1021/ja4036175 (2013).
6. Chen, X., Caporaso, L., Cavallo, L. & Chen, E. Y.-X. Stereoselectivity in metallocene-catalyzed coordination polymerization of renewable methylene butyrolactones. From stereo-random to stereo-perfect polymers. *Journal of the American Chemical Society* **134**, 7278–7281; 10.1021/ja301811s (2012).
7. Chen, E. Y.-X. Coordination polymerization of polar vinyl monomers by single-site metal catalysts. *Chemical reviews* **109**, 5157–5214; 10.1021/cr9000258 (2009).
8. He, J., Zhang, Y. & Chen, E. Synthesis of Pyridine- and 2-Oxazoline-Functionalized Vinyl Polymers by Alane-Based Frustrated Lewis Pairs. *Synlett* **25**, 1534–1538; 10.1055/s-0033-1341248 (2014).
9. Zhang, Y., Miyake, G. M. & Chen, E. Y.-X. Alane-based classical and frustrated Lewis pairs in polymer synthesis. Rapid polymerization of MMA and naturally renewable methylene butyrolactones into high-molecular-weight polymers. *Angewandte Chemie (International ed. in English)* **49**, 10158–10162; 10.1002/anie.201005534 (2010).
10. Yasuda, H., Yamamoto, H., Yokota, K., Miyake, S. & Nakamura, A. Synthesis of monodispersed high molecular weight polymers and isolation of an organolanthanide(III) intermediate coordinated by a penultimate poly(MMA) unit. *J. Am. Chem. Soc.* **114**, 4908–4910; 10.1021/ja00038a069 (1992).
11. Collins, S. & Ward, D. G. Group-transfer polymerization using cationic zirconocene compounds. *J. Am. Chem. Soc.* **114**, 5460–5462; 10.1021/ja00039a088 (1992).
12. Pahl, P. *et al.* Core-First Synthesis of Three-Armed Star-Shaped Polymers by Rare Earth Metal-Mediated Group Transfer Polymerization. *Macromolecules* **50**, 6569–6576; 10.1021/acs.macromol.7b01007 (2017).
13. Bugnon, L., Morton, C. J. H., Novak, P., Vetter, J. & Nesvadba, P. Synthesis of Poly(4-methacryloyloxy-TEMPO) via Group-Transfer Polymerization and Its Evaluation in Organic Radical Battery. *Chem. Mater.* **19**, 2910–2914; 10.1021/cm063052h (2007).
14. Spinelli, H. J. Group transfer polymerization and its use in water based pigment dispersants and emulsion stabilizers. *Progress in Organic Coatings* **27**, 255–260; 10.1016/0300-9440(95)00541-2 (1996).

15. Lanzinger, D., Salzinger, S., Soller, B. S. & Rieger, B. Poly(vinylphosphonate)s as Macromolecular Flame Retardants for Polycarbonate. *Ind. Eng. Chem. Res.* **54**, 1703–1712; 10.1021/ie504084q (2015).
16. Miyake, G. M. & Chen, E. Y.-X. Metallocene-Mediated Asymmetric Coordination Polymerization of Polar Vinyl Monomers to Optically Active, Stereoregular Polymers. *Macromolecules* **41**, 3405–3416; 10.1021/ma8000675 (2008).
17. Zhang, N., Salzinger, S., Deubel, F., Jordan, R. & Rieger, B. Surface-initiated group transfer polymerization mediated by rare earth metal catalysts. *Journal of the American Chemical Society* **134**, 7333–7336; 10.1021/ja3027423 (2012).
18. Altenbuchner, P. T. *et al.* Next Generation Multiresponsive Nanocarriers for Targeted Drug Delivery to Cancer Cells. *Chemistry (Weinheim an der Bergstrasse, Germany)* **22**, 14576–14584; 10.1002/chem.201601822 (2016).
19. Schwarzenböck, C. *et al.* Precise synthesis of thermoresponsive polyvinylphosphonate-biomolecule conjugates via thiol–ene click chemistry. *Polym. Chem.* **9**, 284–290; 10.1039/C7PY01796K (2018).