

11. Literature

- [1] D. L. D. Casper, *Biophys. J.* 1980, 32, 103-138
- [2] A. Klug, *Angew. Chem. Int. Ed.* 1983, 22, 565-582
- [3] V. Percec, G. Johansson, G. Ungar, J. Zhou, *J. Am. Chem. Soc.* 1996, 118, 9855.
- [4] V. Percec, D. Schluter, *Macromolecules*, 1997, 30, 5783.
- [5] V. Percec, C.-H. Ahn, W.-D. Cho, A. M. Jamieson, J. Kim, T. Leman, M. Schmidt, M. Gerle, M. Moller, S. A. Prokhorova, S. S. Sheiko, S. Z. D. Cheng, A. Zhang, G. Ungar, D. J. P. Yearley, *J. Am. Chem. Soc.* 1998, 120, 8619-8631.
- [6] S.D. Hudson, H.-T. Jung, V. Percec, W.-D. Cho, G. Johansson, G. Ungar, V. S. K. Balagurusamy, *Science*, 1997, 278, 449-452.
- [7] Lehn, J. M. *Supramolecular Chemistry* (VCH, Weinheim, 1995)
- [8] N. M. Bikales, *Polym. J.* 1989, 19, 11.
- [9] D. A. Tomalia, H. Baker, J. Dewald, M. Hall, G. Kallos, S. Martin, J. Roeck, J. Ryder, P. Smith, *polym. J.* 1985, 17, 117.
- [10] R. Newkome, C. Moorfield, F. Vögtle, *Dendritic Molecules-Concepts, Synthesis, perspectives*, 1996, VCH, Weinheim.
- [11] A. W. Bosman, H. M. Jansen, E. W. Meijer, *Chem. Rev.* 1999, 99, 1665-1688;
- [12] M. Fischer, F. Vögtle, *Angew. Chem.* 1999, 111, 934-955; *Angew. Chem. Int. Ed.* 1999, 38, 885-905;
- [13] J. -P. Majoral, A. -M. Caminade, *Chem. Rev.* 1999, 99, 845-880;
- [14] S. Hecht, J. M. J. Frechet, *Angew. Chem.* 2001, 113, 76-94
- [15] R. Newkome, C. Moorfield, *Comprehensive supermolecular chemistry*, Springer, Berlin 1996.
- [16] A. Zistler, S. Koch, A.D. Schlüter, *J. Chem. Soc. Perkin Trans. 1*, 1999, 501-508.
- [17] D. A. Tomalia.; A. M. Naylor, W. A. Goddard, *Angew. Chem. Int. Ed. Engl.* 1990, 29, 138.
- [18] A. B. Padia, H. K. Hall, D. A. Tomalia, J. R. McConnell, *J. Org. Chem.* 1987, 52, 5305.
- [19] K. L. Wooley, C. J. Hawker, J. M. J. Frechet, *J. Am. Chem. Soc.* 1991, 113, 4252-4261.
- [20] D. A. Tomalia, P. M. Kirchhoff (Dow Chemical), US-A 4694064, 1987; R. Yin,

- Y. Zhu, D. A. Tomalia, H. Ibuki, *J. Am. Chem. Soc.* 1998, 120, 2678-2679.
- [21] S. Förster, I. Neubert, A. D. Schlüter, P. Linder, *Macromolecules* 1999, 32, 4042-4049.
- [22] Z. Bo, A. D. Schlüter, *Macromol. Rapid Commun.* 1999, 20, 21-25; Z. Bo, A. D. Schlüter, *Chem. Eur. J.* 2000, 6, 3235-3241.
- [23] M. Kumada, *Pure Appl. Chem.*, 1980, 52, 669.
- [24] E. Negishi, *Acc. Chem. Rev.*, 1982, 15, 340. H. C. Brown, *Organic Syntheses Via Boranes*, John Wiley & Sons
- [25] R. F. Heck, "Palladium reagents in Organic Syntheses", Academic Press, London, 1985.
- [26] N. Miyaura, T. Ishiyama, M. Ishikawa, A. Suzuki, *Tetrahedron Letter* 1986, 27, 6369-6372.
- [27] G. J. Chen, C. Tamborski, *J. Organomet. Chem.* 1983, 251, 149.
- [28] F. K. Sheffy, J. P. Dodschalx, J. K. Stille *J. Am. Chem. Soc.* 1984, 106, 4839.
- [29] A. D. Schlüter, J. P. Rabe, *Angew. chem, int. ed.* 2000, 39, 864-883.
- [30] A. D. Schlüter, *Topics in Current Chemistry*, Vol. 197, 165-191.
- [31] Y. Tsukahara, K. Tsutsumi, Y. Yamashita, S. Shimada *Macromolecules* 1990, 23, 5201; M. Wintermantel, M. Gerle, K. Fischer, M. Schmidt, I. Wataoka, H. Urakawa, K. Kajiwara, Y. Tsukahara *Macromolecules* 1996, 29, 978.
- [32] I. Neubert, A. D. Schlüter, *Macromolecules*, 1998, 31, 9372-9378.
- [33] B. Karakaya, W. Claussen, K. Gessier, W. Sängler, A. -D. Schlüter, *J. Am. Chem. Soc.* 1997, 119, 3296.
- [34] R. Merrifield, *Angew. Chem.* 1985, 97, 801; M. Bodanzky, *Principle of peptide synthesis*, Springer, New York 1984; M. Bodanzky, *the practice of peptide synthesis*, Springer, New York 1984.
- [35] D. F. Detar, R. Silverstein, *J. Am. Chem. Soc.* 1966, 88, 1013-1017; D. F. Detar, R. Silverstein, *J. Am. Chem. Soc.* 1966, 88, 1020-1029.
- [36] Y. Tsukahara, K. Tsutsumi, Y. Yamashita, S. Shimada, *Macromolecules* 1990, 23, 5201-5208.
- [37] H. O. Kalinowski, S. Berger, S. Braun, *¹³C-NMR-Spektroskopie*, Thieme: Stuttgart, Germany, 1984; p 201.
- [38] F. C. Mcintire, L. M. Clements, M. Sprooull, *Anal. Chem.* 1953, 25, 1757.
- [39] D. T. Dubin, *J. Biol. Chem.*, 1960, 235, 783.

- [40] I. M. Lockhart. *Nature*, 1956, 177, 394.
- [41] H. Bräuniger, K. Spangenberg. *Pharmazie*, 1957, 12, 335-348.
- [42] O. Yoshio, S. Takahiro, J. Am. Chem. Soc. 1984, 106, 8065-8070.
- [43] H. Takano, J. R. Kenseth, S. S. Wong, J. C. O'Brien, M. D. Porter, *Chem. Rev.* 1999, 99, 2845-2890.
- [44] C. F. Quate, *Surface science* 1994, 299/300, 980-995.
- [45] N. A. Burnham, O. P. Behrend, F. Oulevey, G. Gremaud, P. J. Gallo, D. Gourdon, E. Dupas, A. J. Kulik, H. M. Pollock, G. A. D. Briggs, *Nanotechnology*, 1997, 8, 67-75.
- [46] G. Binnig, C. F. Quate, *Physical Review Letters*, 1986, 56, 930-933.
- [47] R. J. Colton, A. Engel, J. E. Frommer, H. E. Gaub, A. A. Gewirth, R. Guckenberger, J. Rabe, W. M. Heckl, B. Parkinson, "Procedures in Scanning Probe Microscopies", John Wiley & Sons.
- [48] C. Bustamante, D. Keller, *Physics Today*, December 1995, 32-38.
- [49] D. Rugar, P. Hansma, *Physics Today*, October 1990, 23-29.
- [50] Y. L. Lyubchenko, B. L. Jacobs, S. M. Lindsay, *Nucleic Acids Res.*, 1992, 20, 3983.
- [51] H. G. Hansma, J. Vesenka, C. Seigerist, G. Kelderman, H. Morett, R. L. Sinsheimer, V. Eilings, C. Bustamante, P. K. Hansma, *Science (Washington, D.C.)*, 1992. 256, 1180.
- [52] M. J. Allen, X. F. Dong, T. E. O'Neill, P. Yan, S. C. Kowalczykowski, J. Gatenwood, R. Balhorn, E. M. Bradbury, *Biochemistry* 1993, 32, 8390.
- [53] S. Kasas, N. H. Thomson, B. L. Smith, H. G. Hansma, X. Zhu, M. Guthold, C. Bustamante, E. T. Kool, M. Kashler, P. K. Hansma, *Biochemistry*, 1997, 36, 461.
- [54] W. Fritzsche, E. Henderson, *Scanning* 1997, 19, 42.
- [55] *Molecular Biology of the Gene*, Fourth edition, The Benjamin / Cummings publishing Company, inc. 1987, 262
- [56] Lubert Stryer, *Biochemistry*, third edition, W. H. Freeman and Company / New York, 1988.
- [57] H. Maeda, *Langmuir*, 1997, 13, 4150.
- [58] Svetlana A. Prokhorova, Sergei S. Sheiko, C.-H. Ahn, V. Percec, and Martin Möller, *Macromolecules*, 1999, 32, 2653-2660.
- [59] Svetlana A. Prokhorova, Sergei S. Sheiko, Martin Möller, C.-H. Ahn, V. Percec,

- Macromol. Rapid Commun.* 1998, 19, 359-366
- [60] S. S. Sheiko, G. Eckert, G. Ignat'eva, A. M. Muzafarov, J. Spickermann, H. J. Rader, M. Möller, *Macromol. Rapid Commun.* 1996, 17, 283.
- [61] S. S. Seiko, M. Gauthier, M. Möller, *Macromolecules* 1997, 30, 2343.
- [62] S. S. Sheiko, M. gerle, K. Fischer, M. Schmidt, M. Möller, *Langmuir* 1997, 13, 5368.
- [63] P. Dziezok, s. S. sheiko, K. fischer, M. Schmidt, M. Möller, *Angew. Chem. Int. Ed. Engl.* 1997, 109, 2812.
- [64] T. K. Bronich, H. K. Nguyen, A. Eisenberg, A. V. Kabanov, *J. Am. Chem. Soc.* 2000, 122, 8339-8343.
- [65] A. V. Kabanov, A. B. Zezin, V. A. Izumrudov, T. K. Bronich, K. N. Bakeev, *Macromol. Chem., Suppl.* 1985, 13, 137-155.
- [66] V. A. Izumrudov, T. K. Bronich, O. S. Saburova, A. B. Zezin, A. V. Kabanov, *Macromol. Chem. Rapid Commun.* 1988, 9, 7-12.
- [67] A. Harada, K. Kataoka, *Science* 1999, 283, 65-67.
- [68] V. A. Izumrudov, S. I. Kargov, M. V. Zhiryakova, A. B. Zezin, V. A. Kabanov, *Biopolymers* 1995, 35, 523-531.