

List of publications (August 2021)

1988 - 1990

1. H. Komber, G. Großmann, A. Kretschmer
 ^1H -, ^{13}C - und ^{31}P -NMR-spektroskopische Untersuchungen an Bis(dialkoxythio-phosphoryl)- und -
(dialkoxyphosphoryl)-sulfanen und -polysulfanen
Phosphorus and Sulfur **35**, 335 - 343 (1988)
2. H. Komber, G. Großmann
Bestimmung des Vorzeichens der Hyperfeinstruktur-Kopplungskonstante a_{P} in Dialkoxy-
dithiophosphoryl-Radikalen mittels ^{31}P - und ^{13}C -CIDNP
Zeitschrift für Chemie **29**, 24 - 25 (1989)
3. G. Großmann, H. Komber, H. Kroschwitz, D. G. Pobedimskii, N. A. Mukmeneva
NMR-spektroskopische und polarographische Untersuchung der Zersetzungsreaktion von
Cumylhydroperoxid durch Dithiophosphorsäuren (russ.)
Isv. Akad. Nauk SSSR, Ser. Khim. **1989**, 34 - 41
4. H. Komber, F. Böhme, D. Pospiech, M. Rätzsch
 ^{13}C NMR analysis of poly(m-phenylene terephthalate - *co* - oxybenzoate)s: main-chain and
end-group resonance assignments and sequence distribution
Makromolekulare Chemie **191**, 2675 - 2684 (1990) DOI: [10.1002/macp.1990.021911116](https://doi.org/10.1002/macp.1990.021911116)

1991 - 1995

5. H. Komber, G. Großmann, A. Petr, D. G. Pobedimskii
 ^{31}P -CIDNP Investigations of the Reaction of O,O-Dialkyl Dithiophosphoric Acid with Cumyl
Hydroperoxide
Polymer Degradation and Stability **32**, 249 - 259 (1991)
6. G. Großmann, H. Komber
NMR Investigations on diastereomeric mixtures of bis(dialkoxythiophosphoryl)sulfanes and -
polysulfanes containing *sec.* butoxy groups.
Assignment of ^{31}P , ^{13}C and ^1H NMR signals in a mixture of seven diastereomers using shift-
correlated 2D NMR spectra
Phosphorus, Sulfur, and Silicon **61**, 269 - 281 (1991)

7. H. Komber, L. Jakisch, S. Zschoche, H. Möbus, M. Rätzsch, D. Scheller
The stereochemistry of the succinimide unit in alkene/N-methylmaleimide copolymers investigated by ^{15}N NMR spectroscopy
Makromol. Chemie, Rapid Communications **12**, 547 - 552 (1991)
8. G. Pompe, E. Meyer, H. Komber, H. Hamann
Influence of PBT crystallization on miscibility degree of amorphous phase in PC/PBT melt blends
Thermochimica Acta **187**, 185 - 200 (1991)
9. W. A. Herrmann, W. Wagner, U. N. Flessner, U. Volkhardt, H. Komber
Methyltrioxorhenium als Katalysator für die Olefin-Metathese
Angewandte Chemie **103**, 1704 - 1706 (1991)
Angewandte Chemie, Int. Ed. Engl. **30**, 1636 - 1638 (1991)
10. H. Komber, V. Steinert, S. Zschoche, M. Rätzsch, G. Großmann
NMR Spectroscopic Characterization of Maleic Anhydride - α -Methylstyrene Adducts
Magnetic Resonance in Chemistry **30**, 207 - 215 (1992)
11. G. Großmann, B. Schwab, A. John, H. Komber, G. Jeschke, J. Sieler
Crystal structure, solid state NMR, and quantum chemical model calculations of bis-(diethoxythiophosphoryl)-trisulfane
Phosphorus, Sulfur, and Silicon, **78**, 297 - 308 (1993)
12. G. Großmann, H. Komber
NMR Investigations on Diastereomeric Mixtures of Bis(Dialkoxyphosphoryl) Sulfanes and Polysulfanes
Main Group Chemistry News, **1**, 6 - 15 (1993)
13. S. Bauer, W. Ren, S. Yilmaz, W. Wirges, W.-D. Molzow, R. Gerhard-Multhaupt, U. Oertel, B. Hänel, L. Häußler, H. Komber, K. Lunkwitz
Nonlinear optical side-chain polymer with high thermal stability and its pyroelectric thermal analysis
Appl. Phys. Lett., **63**, 2018 - 2020 (1993)

14. M. Rillich, H. Komber, F. Böhme
Polymers containing formamidine groups
1. Synthesis and characterization of aliphatic polyformamidines
Polym. Bull., **31**, 381 -385 (1993)
15. H. Komber, G. Großmann
A conformational study of bis(5,5-dimethyl-2-X-1,3,2-dioxaphosphorinan-2-yl) sulfanes and polysulfanes using NMR and IR spectroscopy
Phosphorus, Sulfur, and Silicon, **83**, 233 - 242 (1993)
16. R. Gerhard-Multhaupt, S. Bauer, W.-D. Molzow, W. Ren, W. Wirges, S. Yilmaz, U. Oertel, L. Häußler, H. Komber, K. Lunkwitz
Electro-optical and pyroelectrical thermal analysis of novel nonlinear optical side-chain polymers with high thermal stability
Proc. SPIE, Band 2042, 384 - 391 (1993)
17. D. Pospiech, H. Komber, D. Voigt, L. Häußler, E. Meyer, G. Schauer, D. Jehnichen, F. Böhme
Thermotropic elastomers with poly(oxy-1,4-butanediyl) units in the main chain
Makromol. Chem. Phys., **195**, 2633 - 2651 (1994)
18. F. Böhme, H. Komber, D. Leistner, M. Rätzsch
A modified synthesis of liquid-crystalline poly(ethylene terephthalate-co-oxybenzoate)s with completely random chain structures
Macromol. Chem. Phys., **195**, 3233 - 3243 (1994)
19. M. Rillich, L. Häußler, H. Komber, F. Wittig, F. Böhme
Polymers containing formamidine groups
2. Synthesis of polyformamidines derived from triethyl orthoformate and aromatic diamines
Polymer Bulletin, **33**, 397 -404 (1994)
20. M. J. Potrzebowski, G. Großmann, J. Blaszczyk, M. W. Wiczorek, J. Sieler, P. Knopik, H. Komber
X-Ray and Solid State NMR Studies of Bis(5,5-dimethyl-2-thioxo-1,3,2-dioxaphosphorinan-2-yl) Disulfide and Diselenide
Inorg. Chem. **33**, 4688 - 4695 (1994)

21. H. Komber
The ^1H and ^{13}C NMR spectra of alternating ethene-maleic anhydride copolymer and the corresponding diacid and sodium salt
Macromol. Chem. Phys., **196**, 669 - 678 (1995)
22. M. Gedan-Smolka, D. Jehnichen, H. Komber, D. Voigt, F. Böhme, M. Rätzsch
Fully aromatic copoly(ester-imide)s with high thermal stability
Angew. Makromol. Chem., **229**, 159 -174 (1995)
23. M. Rillich, D. Jehnichen, H. Komber, F. Böhme
Polymers containing formamidine groups
4. Copolyformamidines prepared from triethyl orthoformate, benzidine and various diamines
Macromol. Chem. Phys., **196**, 1635 - 1644 (1995)
24. F. Böhme, M. Rillich, H. Komber
Polymers containing formamidine groups
5. Formation of a cyclic formamidine trimer by the condensation reaction of 2,6-diaminopyridine with triethyl orthoformate
Macromol. Chem. Phys., **196** (10), 3209 - 3216 (1995)
25. H. Komber
NMR Conformational Study of the Neutralisation of *meso*- and *racemic*-2,3-Dimethyl- and 2,3-Diethylsuccinic Acid in Aqueous Solution
J. Chem. Soc., Perkin Trans. 2, **1995**, 1923 - 1927
26. T. Uhlich, G. Tomaschewski, H. Komber
Synthesis of a Hydrophobised and Photocrosslinkable Prepolymer Based on Poly(vinyl alcohol)
Reactive & Functional Polymers, **28**, 55 - 60 (1995)
- 1996 - 2000**
27. H. Komber
The ^1H and ^{13}C NMR spectra of alternating isobutene/maleic anhydride copolymer and the corresponding acid and sodium salt - a stereochemical analysis
Macromol. Chem. Phys., **197** (1), 343 - 353 (1996)

28. T. Rische, S. Zschoche, H. Komber
Grafting of maleic anhydride onto poly(tetrahydrofuran)
Macromol. Chem. Phys., **197** (3), 981 - 990 (1996)
29. S. Reinhardt, H. Komber, V. Steinert
Investigations on the dissociation behaviour of hydrolyzed alternating copolymers of maleic anhydride and alkenes - ^{13}C NMR spectra and potentiometric titrations
J. Polym. Sci., Chem. Ed., **34** (12), 2415 - 2419 (1996)
30. D. Pospiech, L. Häußler, H. Komber, D. Voigt, D. Jehnichen, A. Janke, A. Baier, K. Eckstein, F. Böhme
LC multiblock copolymers containing polysulfone segments: 1. Synthesis and morphology
J. Appl. Polymer Sci, **62** (11), 1819 - 1833 (1996)
31. H. Komber, C. Klinger, F. Böhme
 ^1H , ^{13}C and ^{15}N nuclear magnetic resonance studies of polyamidines prepared from di(4,4'-aminophenyl) methane and different triethyl orthoesters - polymers with a prototropic tautomerism
Polymer, **38** (11), 2603 - 2608 (1997)
32. M. Gedan-Smolka, D. Lehmann, S. Cetin, H. Komber
Kombinierte Härtung von Pulverlacken: Neuartige Vernetzungs-mechanismen zur Steuerung der Filmbildung
Farbe + Lack, **103**, 48 - 56 (1997)
33. K.-J. Eichhorn, D. Voigt, H. Komber, D. Pospiech
Characterization of a poly(ethersulfone) by on-line coupling of size exclusion chromatography with NMR and FTIR spectroscopy
Macromol. Symp., **119**, 325 - 338 (1997)
34. J. Nagel, U. Oertel, P. Friedel, H. Komber, D. Möbius
Langmuir-Blodgett layers from Schiff base Copper(II) complexes
Langmuir, **13** (17), 4693 - 4698 (1997)

35. H. Komber, C. Klinger, F. Böhme
A ^{15}N CPMAS study of N^1, N^2 -diarylsubstituted polyformamide, polyacetamides and polybenzamide and model compounds
Macromolecules, 30 (25) 8066 - 8068 (1997)
36. D. Pospiech, K. Eckstein, H. Komber, D. Voigt, F. Böhme, H. R. Kricheldorf
The use of melt polycondensation for synthesis of LC multiblock copolymers
Polym. Prepr., 38 (2), 398 - 399 (1997)
37. K. Werner, H. Komber, S. Reinhardt, V. Steinert
Solution behaviour of hydrophobically modified hydrolysed alternating copolymers of maleic anhydride and propene
European Polymer Journal, 34 (3-4), 327-333 (1998)
38. H. Komber, M. Gruner, H. Malz
 ^1H and ^{13}C signal assignment for the 4-phenyl-1,2,3,4-tetrahydronaphthyl end-group of autopolymerized polystyrene
Macromol. Chem. Phys., Rapid Commun., 19 (2), 83 - 88 (1998)
39. H. Malz, H. Komber, D. Voigt, J. Pionteck
Reactions for selective elimination of TEMPO-end groups in polystyrene
Macromol. Chem. Phys., 199 (4), 583 - 588 (1998)
40. F. Böhme, C. Kunert, C. Klinger, H. Komber
Structural influences on the properties of aromatic polyamides
Macromolecular Symposia, 128, 183 - 193 (1998)
41. F. Böhme, C. Klinger, H. Komber, L. Häußler, D. Jehnichen
Synthesis and properties of polyamides
J. Polym. Sci., Part A: Polym. Chem., 36, 929 - 938 (1998)
42. J. Luston, F. Böhme, H. Komber, G. Pompe
Unsaturated 2-oxazoline modification of polyethylene containing carboxylic groups
J. Macromol. Sci., Pure Appl. Chem., A35(7&8), 1045-1054 (1998)

43. D. Pospiech, L. Häußler, K. Eckstein, H. Komber, D. Voigt, D. Jehnichen, E. Meyer, A. Janke, H. R. Kricheldorf
Design of poly(ester imide)/polysulfone multiblock copolymers and their property profiles
Designed Monomers and Polymers, 1, 187 - 206 (1998)
44. T. Rische, S. Zschoche, H. Komber
Structure of grafted products of maleic anhydride and poly(propylene oxide)
Macromol. Chem. Phys., 199, 1539 - 1545 (1998)
45. G. Maier, C. Zech, B. Voit, H. Komber
An approach to hyperbranched polymers with a degree of branching of 100%
Macromol. Chem. Phys., 199 (12), 2655 - 2664 (1998)
46. T. Huber, F. Böhme, H. Komber, J. Kronek, J. Luston, D. Voigt, B. Voit
New hyperbranched poly(etheramide)s via nucleophilic ring opening of 2-oxazoline containing monomers
Macromol. Chem. Phys., 200, 126-133 (1999)
47. H.-J. Adler, P. Fischer, A. Heller, I. Jansen, D. Kuckling, H. Komber, D. Lehmann, J. Piontek, D. Pleul, F. Simon
a) Makromolekulare Chemie 1998
b) Trends in polymer chemistry 1998
a) Nachr. Chem. Tech. Lab. 47 (2), 203 -208 (1999)
b) Acta Polym., 50 (7), 232 -239 (1999)
48. D. Pospiech, K. Eckstein, L. Häußler, H. Komber; K. Grundke, F. Simon, H.-J. Jacobasch
Hydrophilation of Polysulfone by Formation of Segmented Block Copolymers
Macromol. Chem. Phys., 200 (6), 1311-1325 (1999)
49. J. Luston, F. Böhme, H. Komber, G. Pompe
Unsaturated 2-oxazoline end-capping of liquid crystalline polyester by reactive processing and in a solution
J. Appl. Polym. Sci., 72 (8), 1047 - 1053 (1999)

50. M. Köthe, M. Müller, F. Simon, H. Komber, H.-J. Jacobasch, H.-J. Adler
Examination of poly(butadiene epoxide)-coatings on inorganic surfaces
Colloides and Surfaces, Part A: Physicochem. Eng. Aspects, 154 (1-2), 75 - 85 (1999)
51. H. Malz, H. Komber, D. Voigt, I. Hopfe, J. Pionteck
Synthesis of functional polymers by atom transfer radical polymerization
Macromol. Chem. Phys., 200 (3), 642 - 651 (1999)
52. J. Luston, J. Kronek, F. Böhme, H. Komber
Synthesis of bis-2-oxazolines containing inner unsaturation and their hydrolysis to phenylene bis-acrylic acids
Designed Monomers and Polymers, 2, 61 - 68 (1999)
53. D. Schmaljohann, H. Komber, B. I. Voit
Conversion dependence of the structural units and the degree of branching of a hyperbranched polyester based on 4,4-bis-(4'-hydroxyphenyl)pentanoic acid determined by NMR spectroscopy
Polymer Preprints, 40 (1), 580 - 581 (1999)
54. D. Schmaljohann, H. Komber, B. Voit
Conversion dependence of the structural units and the degree of branching of a hyperbranched polyester based on 4,4-bis-(4'-hydroxyphenyl)pentanoic acid determined by NMR spectroscopy
Acta Polymerica, 50, 196 - 204 (1999)
55. L. Jakisch, F. Böhme, H. Komber, G. Pompe
Synthesis and thermal polymerization of aromatic 2-oxazolines containing carboxylic groups
Macromol. Chem. Phys., Rapid Commun., 20 (5), 256 - 260 (1999)
56. J. Luston, F. Böhme, H. Komber
Synthesis of 2-oxazolines containing allyl groups by phase transfer catalysis
Designed Monomers and Polymers, 2 (4), 325 - 331 (1999)

57. I. Voigt, F. Simon, H. Komber, H.-J. Jacobasch, S. Spange
Controlled Synthesis of Stable Polyvinylamine/Silica Hybrid Particles by Interfacial Post-Crosslinking-Reactions
Coll. & Polym. Sci., 278 (1), 48 - 56 (2000)
58. L. Jakisch, H. Komber, L. Häußler, F. Böhme
A new Bifunctional Coupling Agent: Synthesis and Model Reactions
Macromol. Symp., 149, 237 - 243 (2000)
59. D. Schmaljohann, J. G. Barratt, H. Komber, B. Voit
Kinetics of non-ideal Hyperbranched Polymerizations, 1. Simulation of the Structural Units and the Diads
Macromolecules, 33(17), 6284-6294 (2000)
60. A. Kaya, L. Jakisch, H. Komber, G. Pompe, J. Pionteck, B. Voit, U. Schulze
Synthesis of oxazoline functionalized polypropene using metallocene catalysts
Macromol. Rapid Comm., 21(17), 1267-1271 (2000)
61. D. Appelhans, H. Komber, D. Voigt, L. Häußler, B. I. Voit
Synthesis and Characterization of Poly(ether amide) Dendrimers Based on Different Core Molecules
Macromolecules, 33(26), 9494-9503 (2000)
62. D. Pospiech, L. Häußler, K. Eckstein, H. Komber, D. Voigt, A. Janke, A. Gottwald, D. Jehnichen, H. R. Kricheldorf
LCP - polysulfone multiblock copolymers: Combination of high performance polymers
in „Functional Materials“, Series Euromat99, Ed. Grassie, K. et al., ISBN 3-527-30254-9 Wiley-VCH, Weinheim, 2000, 292-297
63. G. Maier, C. Zech, B. Voit, H. Komber
Perfectly branched hyperbranched polymers
in “Tailored Polymer & Applications”, Eds. Y. Yagci et al., ISBN 90-6764-326-2 VSP, Utrecht, 2000, 99 - 110

2001 - 2005

64. M. Eigner, H. Komber, B. Voit
Hyperbranched poly(triazene ester)s as novel globular photolabile and thermolabile polymers
Macromol. Chem. Phys., 202 (2), 245-256 (2001)
65. G. Maier, C. Zech, B. Voit, H. Komber
Hyperbranched Polymers with a Degree of Branching of 100%
Macromol. Symp., 163, 75 - 86 (2001) - ISSN: 1022-1360 (Wiley-VCH Verlag GmbH)
66. J. Luston, J. Kronek, F. Böhme, H. Komber
Azo-Group Labelled Polyesters by End-Capping with 2-Oxazoline Derivatives - Preparation
Macromol. Symp., 164, 105 - 115 (2001) - ISBN (Wiley-VCH Verlag GmbH)
67. O. Monticelli, A. Mariani, B. Voit, H. Komber, R. Mendichi, V. Pitto, D. Tabuani, S. Russo
Hyperbranched aramids by the $A_2 + B_3$ vs. AB_2 approach: influence of the reaction conditions on structural development
High Perform. Polym., 13 (2), S45 - S59 (2001)
68. D. Pospiech, L. Häußler, K. Eckstein, H. Komber, D. Voigt, D. Jehnichen, P. Friedel, A. Gottwald, W. Kollig, H. R. Kricheldorf
Synthesis and phase separation behavior of high performance multiblock copolymers
High Perform. Polym., 13 (2), S275 - S292 (2001)
69. C. Kunert, D. Voigt, P. Friedel, H. Komber, F. Böhme
Polymers containing Formamidine Groups. VI. Structural Influences on the Formation of Cyclic Trimers
J. Polym. Sci.: Part A: Polym. Chem. 39, 1280 - 1287 (2001)
70. D. Schmaljohann, J. G. Barratt, H. Komber, D. Appelhans, B. I. Voit
Kinetic Studies and Numerical Modeling of Nonideal Hyperbranched Polycondensation Reaction
Polymer Materials: Science & Engineering 84, 526 - 527 (2001) (ISBN 0-8412-3787-5).

71. H. Komber, B. Voit, O. Monticelli, S. Russo
NMR Studies on a Hyperbranched Aromatic Polyamide from A₂ and B₃ Monomers: Structure and Interactions with Lithium Salts
Polymer Materials: Science & Engineering 84, 557 - 558 (2001) (ISBN 0-8412-3787-5).
72. H. Komber, B. Voit, O. Monticelli, S. Russo
¹H and ¹³C NMR Spectra of a Hyperbranched Aromatic Polyamide from p-Phenylene-diamine and Trimesic acid
Macromolecules, 34 (16), 5487 - 5493 (2001)
73. A. Kaya, L. Jakisch, H. Komber, D. Voigt, J. Pionteck, B. Voit, U. Schulze
Synthesis of Various Functional Propylene Copolymers Using *rac*-Et[1-Ind]₂ZrCl₂/MAO as the Catalyst System
Macromol. Rapid Commun., 22(12), 972-977 (2001)
74. H. Malz, J. Pionteck, P. Pötschke, H. Komber, D. Voigt, J. Luston, F. Böhme
2-Oxazoline terminated polystyrene by atom transfer radical polymerization
Macromol. Chem. Phys., 202 (12), 2148-2154 (2001)
75. J. Kronek, J. Luston, F. Böhme, H. Komber
Azo-Group Labelled Polyesters by End-Capping with 2-Oxazoline Derivatives – Photochemical Properties
Macromol. Symp., 170, 301 – 310 (2001)
76. A. V. Tenkovtsev, A. V. Yakimansky, M. M. Dudkina, V. V. Lukoshkin, H. Komber, L. Häussler, F. Böhme
Ionic Complexes of Bis(hydroxyarylidene)alkanones with Strong Polymeric Bases as a New Class of Third-Order Nonlinear Optical Chromophores
Macromolecules, 34 (20), 7100 – 7107 (2001)
77. U. Oertel, D. Appelhans, P. Friedel, D. Jehnichen, H. Komber, B. Pilch, B. Hänel, B. Voit
Excitation energy transfer between a first generation dendrimer and a pyrene derivative in LB multilayers
Langmuir, 18 (1), 105 – 111 (2002)

78. H. Komber, A. Ziemer, B. Voit
Etherification as side reaction in the hyperbranched polycondensation of 2,2-bis(hydroxymethyl)propionic acid
Macromolecules, 35 (9), 3514 – 3519 (2002)
79. F. Böhme, Ch. Kunert, H. Komber, D. Voigt, P. Friedel, M. Khodja, H. Wilde
Polymeric and Macrocyclic Ureas Based on Meta-Substituted Aromatic Diamines
Macromolecules, 35 (11), 4233 – 4237 (2002)
80. K. Sharavanan, H. Komber, F. Böhme
Synthesis and Properties of Aliphatic Polyacetamides
Macromol. Chem. Phys., 203 (12), 1852-1858 (2002)
81. H. Komber, H.-H. Limbach, F. Böhme, C. Kunert
NMR Studies of the Tautomerism of Cyclo-tris(4-R-2,6-pyridylformamidine) in Solution and in the Solid State
J. Am. Chem. Soc., 124 (40), 11955 – 11963 (2002)
82. D. Schmaljohann, H. Komber, J. G. Barratt, D. Appelhans, B. I. Voit
Kinetics of non-ideal Hyperbranched Polymerizations,
2. Kinetic Analysis of the Polycondensation of 3,5-Bis(trimethylsiloxy)-benzoylchloride using NMR Spectroscopy
Macromolecules, 36 (1), 97 – 108 (2003)
83. E. J. Onah, U. Oertel, L. Häußler, D. Voigt, C. Froeck, H. Komber, B. I. Voit, K. Lunkwitz
Fluorine containing poly(amide-imide)s: synthesis and formation of Langmuir-Blodgett monolayers
Europ. Polym. J., 39(1), 127 – 134 (2003)
84. L. Jakisch, H. Komber, F. Böhme
Multifunctional Coupling Agents: Synthesis and Model Reactions
J. Polym. Sci.: Part A: Polym. Chem. , 41, 655 – 667 (2003)

85. J. C. Rueda, H. Komber, J. C. Cedron, B. Voit, G. Shevstova
Synthesis of New Hydrogels by Copolymerization of Poly(2-methyl-2-oxazoline) Bis(macromonomers) and N-Vinylpyrrolidone
Macromol. Chem. Phys., 204 (7), 947 - 953 (2003)
86. J. Rueda, R. Suica, H. Komber, B. Voit
Synthesis of New Polymethyloxazoline Hydrogels by the “Macroinitiator” Method
Macromol. Chem. Phys., 204 (7), 954 - 960 (2003)
87. U. Schulze, T. Fonagy, H. Komber, G. Pompe, J. Pionteck, B. Ivan
Synthesis of Poly(propylene-g-styrene) Graft Copolymers by Metallocene Catalyzed Copolymerization of Propene with Allyl-terminated Polystyrene Macromonomer Obtained via Quasiliving Atom Transfer Radical Polymerization and the Effect of the Grafts on Blending Polypropylene with Polystyrene
Macromolecules, 36, 4719 – 4726 (2003)
88. D. Tabuani, O. Monticelli, H. Komber, S. Russo
Preparation and Characterisation of Pd Nanoclusters within Hyperbranched Aramids Templates to be used in Homogeneous Catalysis
Macromol. Chem. Phys., 204 (12), 1576 - 1583 (2003)
89. D. Pospiech, H. Komber, D. Voigt, D. Jehnichen, L. Häußler, A. Gottwald, W. Kollig, K. Eckstein, A. Baier, K. Grundke
Synthesis and characterization of semifluorinated polymers and block copolymers
Macromol. Symp., 199 (1), 173 - 186 (2003)
90. C. Clausnitzer, B. Voit, H. Komber, D. Voigt
Poly(ether amide) Dendrimers via Nucleophilic Ring opening Addition Reactions of Phenol Groups toward Oxazolines: Synthesis and Characterization
Macromolecules, 36, 7065 - 7074 (2003)
91. O. Monticelli, S. Fiori, A. Mariani, S. Russo, H. Komber
Synthesis, characterisation and properties of aramid copolymers prepared from AB and AB₂ monomers
e-Polymers, 2003, no. 053 (18 pages) (2003)

92. A. Taeger, C. Vogel, D. Lehmann, D. Jehnichen, H. Komber, J. Meier-Haack, N. A. Ochoa, S. P. Nunes, K.-V. Peinemann
Ion exchange membranes Derived from sulfonated polyaramides
Reactive & Functional Polymers, 57, 77 - 92 (2003)
93. G. Schmack, B. Tändler, G. Opitz, R. Vogel, H. Komber, L. Häußler, D. Voigt, S. Weinmann, M. Heinemann, H.-G. Fritz
High-Speed Melt Spinning of Various Grades of Polylactides
Jour. Appl. Polym. Sci., 91, 800-806 (2004)
94. A. Kowalczyk-Bleja, B. Trzebicka, H. Komber, B. Voit, A. Dworak
Controlled radical polymerization of p-(iodomethyl)styrene – a route to branched and star-like structures
Polymer, 45, 9 – 18 (2004)
95. K. Sharavanan, H. Komber, D. Fischer, F. Böhme
Hydrolytic degradation of polyamides and its potential application in controlled release of active agents
Polymer, 45, 2127 – 2132 (2004)
96. T. Hoffmann, D. Pospiech, L. Häußler, A. John, P. Friedel, H. Komber, D. Voigt, P. Werner, V. Altstädt
Synthesis and Phase Separation of PEEK / PSU Multiblock Copolymers
High Perform. Polym., 16 (1), 3 - 20 (2004)
97. M. Abdelrehim, H. Komber, J. Langenwalter, B. Voit, B. Bruchmann
Synthesis and Characterization of Hyperbranched Poly(urea-urethane)s Based on AA* and B₂B* Monomers
J. Polym. Sci. A: Polym. Chem., 42, 3062 – 3081 (2004)
98. A. Scheel, H. Komber, B. Voit
Hyperbranched Thermolabile Polycarbonates Derived from A₂ + B₃ Monomer system
Macromol. Symp., 210 (1), 101 – 110 (2004)

99. V. Bhadraiah Sadhu, J. Pionteck, D. Voigt, H. Komber, B. Voit
Synthesis of Halogen-Free Amino-Functionalized Polymethyl Methacrylate by Atom Transfer Radical Polymerization (ATRP)
Macromol. Symp., 210 (1), 147 – 155 (2004)
100. A. Scheel, H. Komber, B. Voit
Novel Hyperbranched Poly([1,2,3] Triazole)s via 1,3-Dipolar Cycloaddition Derived from AB₂ Monomers
Macromol. Rapid. Commun., 25, 1175 – 1180 (2004)
101. D. Appelhans, V. Stastny, H. Komber, D. Voigt, B. Voit, P. Lhoták, I. Stibor
Novel dendritic cores based on thiacalix[4]arene derivatives
Tetrahedron Letters, 45 (38), 7145-7149 (2004)
102. M. M. Dudkina, A. V. Tenkovtsev, H. Komber, L. Häußler, F. Böhme
Competitive Influence of Carboxylic Groups in Ionic Complex Formation of 4-Hydroxybenzylidene Alkanones with Polyamidines
Macromolecules, 37 (22), 8389 – 8393 (2004)
103. V. Bhadraiah Sadhu, J. Pionteck, D. Voigt, H. Komber, D. Fischer, B. Voit
Atom Transfer Radical Polymerization: A Strategy for the Synthesis of Halogen-Free Amino-Functionalized Poly (methyl methacrylate) in a One-pot Reaction
Macromol. Chem. Phys., 205 (17), 2356 – 2365 (2004)
104. L. Jakisch, H. Komber, R. Wursche, F. Böhme
Multifunctional Coupling Agents. II. Chain Extension and Terminal Group Modification of Polyamides
J. Appl. Polym. Sci. 94 (5), 2170 – 2177 (2004)
105. J. C. Rueda, H. Komber, B. Voit
Synthesis of New Amphiphilic and Lyophobic Polymer Networks Containing 2-Methyl- and 2-Nonyl-2-oxazoline by the “Macroinitiator” Method
J. Polym. Sci.: Part A: Polym. Chem. , 43(1), 122 – 128 (2005)

106. S. Gramm, H. Komber, D. Schmaljohann
Copolymerization Kinetics of N-Isopropylacrylamide and Diethylene Glycol Monomethylether Monomethacrylate Determined by Online NMR spectroscopy
J. Polym. Sci.: Part A: Polym. Chem., 43 (1), 142 – 148 (2005)
107. D. Pospiech, H. Komber, D. Jehnichen, L. Häussler, K. Eckstein, H. Scheibner, A. Janke, H. R. Kricheldorf, O. Petermann
Multiblock Copolymers of L-Lactide and Trimethylene Carbonate
Biomacromolecules, 6(1), 439 – 446 (2005)
108. H. Komber, V. Steinert
Isomerisation of *Erythro*- and *Threo*-Succinate Units in Alternating Alkene–Maleic Acid Copolymers: A Promising Route to New Microstructures
Macromol. Rapid Commun., 26(3), 168-171 (2005)
109. T. Hoffmann, D. Pospiech, L. Häußler, H. Komber, D. Voigt, C. Harnisch, C. Kollann, M. Ciesielski, M. Döring, R. Perez-Graterol, J. Sandler, V. Altstädt
Novel Phosphorous-Containing Aromatic Polyethers - Synthesis and Characterization
Macromol. Chem. Phys., 206(4), 423-431 (2005)
110. D. Appelhans, H. Komber, R. Kirchner, J. Seidel, C.-F. Huang, D. Voigt, D. Kuckling, F.-C. Chang, B. Voit
Polypeptide-Shelled Poly(propylene imine) Dendrimers and Their Complexing Properties towards Copper(II) Ions
Macromol. Rapid Commun., 26(8), 586-591 (2005)
111. D. Appelhans, Z.-G. Wang, S. Zschoche, R.-C. Zhuang, L. Häußler, P. Friedel, F. Simon, D. Jehnichen, K. Grundke, K.-J. Eichhorn, H. Komber, B. Voit
Bulk and Surface Properties of Maleimide Copolymers: Effekt of Fluorinated Side Chains
Macromolecules 38(5); 1655-1664 (2005)
112. H. Stephan, G. Geipel, D. Appelhans, G. Bernhard, D. Tabunai, H. Komber, B. Voit
Pegylation of 1,4,8,11-tetraazacyclotetradecane (cyclam) and its Cu(II) complexation
Tetrahedron Letters 46(18), 3209-3212 (2005)

113. J. C. Rueda, S. Zschoche, H. Komber, D. Schmaljohann, B. Voit
Synthesis and Characterization of Thermo-Responsive Graft Copolymers of NIPAAm and 2-Alkyl-2-oxazolines by the "Grafting from" Method
Macromolecules 38(17); 7330-7336 (2005)
- 113a. J. C. Rueda, S. Zschoche, H. Komber, D. Schmaljohann, B. Voit
Sintesis y Caracterizacion de Polimeros Termosensibles
Revista de Quimica PUCP 20(1-2), 41 – 46 (2006)
114. D. Appelhans, M. Smet, G. Khimich, H. Komber, D. Voigt, P. Lhotak, D. Kuckling, B. Voit
Lysine dendrimers based on thiacalix[4]arene core moieties as molecular scaffolds for supramolecular host systems
New J. Chem. 29, 1386 – 1389 (2005)
115. H. Mart, U. Oertel, H. Komber, L. Häussler, F. Böhme
Ionic Interactions in Blends of Polyamidines and Proton Donor Terminated Poly(alkylene ether)s
Macromolecules 38(19), 8051-8057 (2005)

2006 – 2010

116. F. Böhme, H. Komber, S. H. Jafari
Synthesis and characterization of a novel unsaturated polyester based on poly(trimethylene terephthalate)
Polymer 47, 1892 – 1898 (2006)
117. R. T. S. Muthu Lakshmi, J. Meier-Haack, K. Schlenstedt, H. Komber, V. Choudhary, I. K. Varma
Synthesis, characterisation and membrane properties of sulphonated poly(aryl ether sulphone) copolymers
Reactive & Functional Polymers 66, 634-644 (2006)
118. R. Grombe, M.-F. Gouzy, M. Nitschke, H. Komber, C. Werner
Preparation and characterization of glycosylated maleic anhydride copolymer thin films
Colloids and Surfaces A: Physicochem. Eng. Aspects, 284-285, 295-300 (2006)

119. H. Komber, K. Stumpe, B. Voit
NMR Study of Hyperbranched Polyphenylenes from the AB₂, (AB₂+AB) and (A₂+B₃) Methods
Macromol. Chem. Phys., 207(20), 1814-1824 (2006)
120. K. Stumpe, H. Komber, B. Voit
Novel Branched Polyphenylenes based on A₂/B₃ and AB₂/AB Monomers via Diels-Alder Cycloaddition
Macromol. Chem. Phys., 207(20), 1825-1833 (2006)
121. B. T. Dung, L. Jakisch, H. Komber, L. Häußler, B. Voit, N. D. Nghia, F. Böhme
Multifunctional Coupling Agents: 3. Segmented Block Copolymers Based on Carboxy- Terminated Poly(propylene oxide) and Amino-Terminated Polyamide 12
Macromol. Chem. Phys., 207(21), 1953-1964 (2006)
122. U. Oertel, M. M. Dudkina, H. Komber, B. Pilch, A. V. Tenkovtsev, F. Böhme
A spectroscopic study on the dissociation behavior of 4-hydroxybenzylideneacetone type NLO chromophores in the presence of sodium hydroxide
Optical Materials, 29(4), 377-385 (2006)
123. D. Fischer, K. Sahre, M. Abdelrehim, B. Voit, V. B. Sadhu, J. Pionteck, H. Komber, J. Hutschenreuter
Process monitoring of polymers by in-line ATR-IR, NIR and RAMAN spectroscopy and ultrasonic measurements
Comptes Rendus Chimie, 9(11-12), 1419-1424 (2006)
124. O. Hien, H. Komber, B. I. Voit, N. Krasteva, A. Yasuda, T. Vossmeier
Hyperbranched polythioethers: preparation and use in gold nanoparticle composite sensor films
Journal of Nanostructured Polymers and Nanocomposite, 2 (4), 109 – 120 (2006)
125. T. Fonagy, U. Schulze, H. Komber, D. Voigt, J. Pionteck, B. Ivan
Poly(propylene-g-styrene) graft copolymers with well-defined microstructure by metallocene catalyzed copolymerization of propylene with allyl-terminated polystyrene macromonomers
Macromolecules, 40 (5), 1401-1407 (2007)
126. T. Fonagy, U. Schulze, H. Komber, D. Voigt, J. Pionteck, B. Ivan

Well-defined poly(propylene-*g*-styrene) graft copolymers by combining quasiliving ATRP and metallocene catalysis: A semi-combinatorial approach

Polymer Preprints 48, 207-208 (2007)

127. A. Savitsky, A. V. Tenkovtsev, H. Komber, U. Oertel, F. Böhme
Synthesis and ionic interactions of a proton donor terminated polyalkylene ethers
Macromol. Rapid Commun., 28(5), 641-645 (2007)
128. H. Komber, K. Stumpe, B. Voit
The Rotation of Pentaphenylphenyl Groups and their Terminal Phenyl Groups: a Variable-Temperature ¹H NMR Study on an Albatrossene and a Three-bladed Molecular Propeller
Tetrahedron Lett., 48 (15), 2655-2659 (2007)
129. D. Appelhans, Y. Zhong, H. Komber, P. Friedel, U. Oertel, U. Scheler, N. Morgner, D. Kuckling, S. Richter, J. Seidel, B. Brutschy, B. Voit
Oligosaccharide-Modified Poly(propyleneimine) Dendrimers: Synthesis, Structure Determination and Cu(II) Complexation
Macromol. Biosci., 7 (3), 373-383 (2007)
130. Z. Özyürek, H. Komber, S. Gramm, D. Schmaljohann, A. H. E. Müller, B. Voit
Thermoresponsive Glycopolymers via Controlled Radical Polymerization
Macromol. Chem Phys. 208 (10), 1035-1049 (2007)
131. S. Fleischmann, H. Komber, D. Appelhans, B. Voit
Synthesis of Functionalized NMP Initiators for Click Chemistry: A Versatile Method for the Preparation of Functionalized Polymers and Block Copolymers
Macromol. Chem Phys. 208 (10), 1050-1060 (2007)
132. L. Jakisch, H. Komber, F. Böhme
Multifunctional coupling agents: 5. Introduction of a new coupling agent for selective coupling of hydroxy and amino group containing polymers.
Macromol. Mat. Engin. 292 (5), 557-570 (2007)
133. V. Senkovskyy, N. Khanduyeva, H. Komber, U. Oertel, M. Stamm, D. Kukling, A. Kiriy

Conductive Polymer Brushes of Regioregular Head-to-Tail Poly(3-alkylthiophenes) via Catalyst-Transfer Surface-Initiated Polycondensation

J. Am. Chem. Soc., 129 (20), 6626-6632 (2007)

134. J. Meier-Haack, H. Komber, C. Vogel, W. Butwilowski, K. Schlenstedt, D. Lehmann
Side-Chain Sulfonated Poly(arylene ether)s for Fuel Cell Applications
Macromol. Symp. 254 (1), 322 – 328 (2007)
135. B. Voit, S. Fleischmann, H. Komber, A. Scheel, K. Stumpe
Cycloaddition Reactions and Dendritic Polymer Architectures - A Perfect Match
Macromol. Symp. 254 (1), 16 – 24 (2007)
136. A. Reisch, H. Komber, B. Voit
Kinetic Analysis of Two Hyperbranched A_2+B_3 Polycondensation Reactions by NMR Spectroscopy
Macromolecules 40 (19), 6846 - 6858 (2007)
137. D. Pospiech, A. Korwitz, H. Komber, D. Voigt, D. Jehnichen, J. Müller, A. Janke, T. Hoffmann, B. Kretschmar
In situ Synthesis of Poly(ethylene terephthalate)/layered Silicate Nanocomposites by Polycondensation
High Perform. Polym. 19 (10), 565 – 580 (2007)
138. F. Böhme, L. Jakisch, H. Komber, R. Wursche
Multifunctional coupling agents: 4. Block copolymers based on amino terminated polyamide 12 and carboxy terminated poly(butane terephthalate)
Polymer Degradation and Stability, 92 (12), 2270 – 2277 (2007)
139. R. K. Narayanan, A. K. Hijazi, H. Komber, B. Voit, S. Zschoche, F. E. Kühn, O. Nukeyen, M. Walter, P. Hanefeld
Synthesis of highly reactive polyisobutylenes using solvent-ligated manganese (II) complexes as catalysts
J. Polym Sci. Part A: Polym. Chem., 45 (23), 5636 – 5648 (2007)
140. J. C. Rueda, K. Contreras, R. Coello, M. Lomer, H. Komber, S. Zschoche, B. Voit

Characterization of new thermo-responsive hydrogels for optical sensing applications

Proc. of SPIE 6572, 65720T-1 – 65720-7 (2007)

141. M. Millaruelo, V. Steinert, H. Komber, R. Klopsch, B. Voit
Synthesis of Vinylphosphonic Acid Anhydrides and their Copolymerization with Vinylphosphonic Acid
Macromol. Chem Phys., 209 (4), 366-374 (2008)
142. H. Komber, V. Steinert, B. Voit
¹H, ¹³C and ³¹P NMR Study on Poly(vinylphosphonic acid) and its Dimethylester
Macromolecules, 41 (6), 2119-2125 (2008)
143. U. Schulze, D. Pospiech, H. Komber, L. Häussler, D. Voigt, M. Eschner
Synthesis and properties of propene copolymers with ether comonomers
Europ. Polym. J., 44 (3), 694-703 (2008)
144. M. Farmahini-Farahani, S.H. Jafari, H.A. Khonakdar, F. Böhme, H. Komber, A. Yavari, M. Tarameshloo
Investigation of exchange reactions and rheological response of the reactive blends of poly (trimethylene terephthalate) and phenoxy resin
Polymer International 57 (4), 612-617 (2008)
145. M. Messerschmidt, M. Millaruelo, H. Komber, L. Häussler, B. Voit, T. Krause, M. Yin, W.-D. Habicher
Synthesis of Partially Protected Block Copolymers Based on 4-Hydroxystyrene Using NMRP and a Sequence of Polymer Analogous Reactions
Macromolecules 41 (8), 2821-2831 (2008)
146. S. Fleischmann, H. Komber, B. Voit
Diblock Copolymers as Scaffolds for Efficient Functionalization via Click Chemistry
Macromolecules, 41 (14), 5255-5264 (2008)
147. B. Klajnert, D. Appelhans, H. Komber, N. Morgner, S. Schwarz, S. Richter, B. Brutschy, M. Ionov, A. K. Tonkikh, M. Bryszewska, B. Voit
The Influence of Densely Organized Maltose Shells on the Biological Properties of Poly(propylene imine) Dendrimers: New Effects Dependent on Hydrogen Bonding

Chem. Eur. J., 14 (23), 7030-7041 (2008)

148. M. Bräuer, B. Tändler, H. Komber, G. Pompe, C. Bellmann, H. Brünig, C. Hess

Beiträge zum Reaktionsmechanismus des Elastanfaserschmelzspinnens nach dem Vernetzerverfahren

Kautschuk, Gummi, Kunststoffe, 61 (10), 531-539 (2008)

149. J. C. Cuggino, C. I. Alvarez Igarzabal, J. C. Rueda, L. M. Quinzani, H. Komber, M. C. Strumia

Synthesis and characterization of new hydrogels through copolymerization of N-acryloyl-tris-(hydroxymethyl) aminomethane and different crosslinking agents

Europ. Polym. J., 44 (11), 3548-3555 (2008)

150. Z. Wang, D. Appelhans, A. Synytska, H. Komber, F. Simon, K. Grundke, B. Voit

Studies of Surface Segregation and Surface Properties of N-pentylperfluorooctaneamide End-Capped Semicrystalline Poly(butylene terephthalate) Films

Macromolecules, 41 (22), 8557-8565 (2008)

151. F. Schallauski, M. Erber, H. Komber, A. Lederer

An Easy Strategy for the Synthesis of Well-Defined Aliphatic-Aromatic Hyperbranched Polyesters

Macromol. Chem Phys., 209 (22), 2331-2338 (2008)

152. D. Pospiech, D. Jehnichen, H. Komber, A. Korwitz, A. Janke, T. Hoffmann, B. Kretschmer, L. Häußler, U. Reuter, M. Döring, S. Seibold, R. Perez-Graterol, J. K. W. Sandler, V. Altstädt, F. Bellucci, G. Camino

New polymers for tailor-made nanocomposites

J. of Nanostructured Polymers and Nanocomposites, 4 (2), 62-75 (2008)

153. I. Aravind, K.-J. Eichhorn, H. Komber, D. Jehnichen, N. E. Zafeiropoulos, K. H. Ahn, Y. Grohens, M. Stamm, S. Thomas

A study on Reaction-Induced Miscibility of Poly(trimethylene terephthalate)/Polycarbonate Blends

J. Phys. Chem. B 113 (6), 1569-1578 (2009)

DOI: [10.1021/jp805204m](https://doi.org/10.1021/jp805204m)

154. A. Ghosh, S. Banerjee, H. Komber, K. Schneider, L. Häußler, B. Voit
Synthesis and characterization of fluorinated poly(imide siloxane) block copolymers
Europ. Polym. J., 45 (5), 1561 – 1569 (2009)
155. D. Appelhans, H. Komber, M. Abdul Quadir, S. Richter, S. Schwarz, J. van der Vlist, A. Aigner, M. Müller, K. Loos, J. Seidel, K.-F. Arndt, R. Haag, B. Voit
Hyperbranched PEI with Various Oligosaccharide Architectures: Synthesis, Characterization, ATP Complexation, and Cellular Uptake Properties
Biomacromolecules, 10 (5), 1114 - 1124 (2009) DOI: [10.1021/bm801310d](https://doi.org/10.1021/bm801310d)
156. J. Hegewald, J. Pionteck, L. Häußler, H. Komber, B. Voit
End-Functionalized Polystyrene by ATRP: A Facile Approach to Primary Amino and Carboxylic Acid Terminal Groups
J. Polym Sci.: Part A: Polym. Chem. 47 (15), 3845 – 3859 (2009)
157. J. Stadermann, S. Fleischmann, M. Messerschmidt, H. Komber, B. Voit
Multifunctional Block Copolymers Based on Styrene Derivatives
Macromol. Symp., 275-276, 35 - 42 (2009)
158. S. Banerjee, H. Komber, L. Häußler, B. Voit
Synthesis and Characterization of Hyperbranched Poly(arylene ether)s from a New Activated Trifluoro B₃ Monomer Adopting an A₂+B₃ Approach
Macromol. Chem Phys., 210 (16), 1272-1282 (2009)
159. S.-H. Jafari, H. A. Khonakdar, A. Asadinezhad, L. Häußler, F. Böhme, H. Komber
On the Interrelationship of Transreactions with Thermal Properties and Dynamic Mechanical Analysis of PTT/PEN Blends
Macromol. Chem Phys., 210 (16), 1291-1302 (2009)
160. S. Fleischmann, A. Kiriya, V. Bocharova, C. Tock, H. Komber, B. Voit
Synthesis of Dendronized Diblock Copolymers via Click Chemistry: The Effect of the Dendronization on Phase Separation Behaviour
Macromol. Rapid Comm., 30 (17), 1457 – 1462 (2009)
161. U. Oertel, H. Mart, H. Komber, F. Böhme

Media effects on the optical properties of proton donor group containing azobenzene derivatives

Optical Materials, 32 (1), 54 – 61 (2009)

162. H. Komber, U. Georgi, B. Voit

¹H and ¹³C NMR Spectra of Highly Branched Poly(4-chloromethylstyrene). Signal Assignment, Structure Characterization, and a SCVP Kinetics Study

Macromolecules, 42 (21), 8307 – 8315 (2009)

DOI: [10.1021/ma901614r](https://doi.org/10.1021/ma901614r)

163. U. Oertel, H. Komber, A. V. Tenkovtsev, M. M. Dudkina, A. E. Trofimov, F. Böhme

Ionic pseudopolyrotaxanes bearing a chromophore in the side chain - A spectroscopic study in water

Polymer, 50 (25), 5876 – 5883 (2009)

164. V. Senkovskyy, R. Tkachov, T. Beryozkina, H. Komber, U. Oertel, M. Horecha, V. Bocharova, M. Stamm, S. A. Gevorgyan, F. C. Krebs, A. Kiriy

“Hairy” Poly(3-hexylthiophene) Particles Prepared via Surface-Initiated Kumada Catalyst-Transfer Polycondensation

J. Am. Chem. Soc., 131 (45), 16445–16453 (2009)

DOI: [10.1021/ja904885w](https://doi.org/10.1021/ja904885w)

165. E. Kaul, V. Senkovskyy, R. Tkachov, V. Bocharova, H. Komber, M. Stamm, A. Kiriy

Synthesis of a Bifunctional Initiator for Controlled Kumada Catalyst-Transfer Polycondensation/Nitroxide-Mediated Polymerization and Preparation of Poly(3-hexylthiophene)-Polystyrene Block Copolymer Therefrom

Macromolecules, 43 (1), 77–81 (2010)

DOI: [10.1021/ma902354j](https://doi.org/10.1021/ma902354j)

166. G. W. Rabe, H. Komber, L. Häußler, K. Kreger, G. Lattermann

Polymerization of Diethyl Vinylphosphonate mediated by Rare-earth Tris(amide) Compounds

Macromolecules, 43 (3), 1178 – 1181 (2010)

DOI: [10.1021/ma902068n](https://doi.org/10.1021/ma902068n)

167. U. Schulze, M. Johannsen, R. Haschick, H. Komber, A. Lederer, B. Voit

Synthesis of poly(10-undecene-1-ol) by metallocene-catalyzed polymerization

Europ. Polym. J., 46 (3), 578 – 586 (2010)

168. A. Ghosh, B. Banerjee, H. Komber, A. Lederer, L. Häußler, B. Voit

Extremely High Molar Mass Hyperbranched Poly(arylene ether)s from a New Semifluorinated AB₂ Monomer by an Unusual AB₂+A₂ Polymerization Approach

Macromolecules, 43 (6), 2846 – 2854 (2010)

DOI: [10.1021/ma9028322](https://doi.org/10.1021/ma9028322)

169. J. C. Rueda, S. Zschoche, H. Komber, F. Krahl, K.-F. Arndt, B. Voit

New Thermo-Sensitive Graft Copolymers Based on a Poly(N-isopropylacrylamide) Backbone and Functional Polyoxazoline Grafts with Random and Diblock Structure

Macromol. Chem. Phys., 211 (6), 706 – 716 (2010)

170. D. Appelhans, U. Oertel, R. Mazzeo, H. Komber, J. Hoffmann, S. Weidner, B. Brutschy, B. Voit, M. F. Ottaviani

Dense-shell Glycodendrimers: UV-vis and EPR study of Metal Ion Complexation

Proceedings of the Royal Society A 466; 1489-1513 (2010)

171. J. Stadermann, M. Erber, H. Komber, J. Brandt, K.-J. Eichhorn, M. Bönsch, M. Mertig, B. Voit

Photopatternable Films of Block Copolymers Prepared through Double-Click Reaction

Macromolecules, 43 (7), 3136 – 3140 (2010)

DOI: [10.1021/ma100109t](https://doi.org/10.1021/ma100109t)

172. A. Khalyavina, F. Schallausky, H. Komber, M. Al Samman, W. Radke, A. Lederer

Aromatic-Aliphatic Polyesters with Tailored Degree of Branching Based on AB/AB₂ and ABB*/AB₂ Monomers

Macromolecules, 43 (7), 3268 – 3276 (2010)

DOI: [10.1021/ma100037n](https://doi.org/10.1021/ma100037n)

173. U. Georgi, M. Erber, J. Stadermann, M. Abulikemu, H. Komber, A. Lederer, B. Voit

New Approaches to Hyperbranched Poly(4-chloromethylstyrene) and Introduction of Various Functional End Groups by Polymer-Analogous Reactions

J. Polym. Sci.: Part A: Polym. Chem., 48 (10), 2224 – 2235 (2010)

174. R. Tkachov, V. Senkovskyy, H. Komber, J.-U. Sommer, A. Kiriy

Random Catalyst Walking Along Polymerized Poly(3-hexylthiophene) chains in Kumada Catalyst-Transfer Polycondensation

J. Am. Chem. Soc. 132 (22), 7803–7810 (2010)

DOI: [10.1021/ja102210r](https://doi.org/10.1021/ja102210r)

175. V. Senkovskyy, T. Beryozkina, V. Bocharova, R. Tkachov, H. Komber, A. Lederer, M. Stamm, N. Severin, J. P. Rabe, A. Kiriy

A Core-First Preparation of Poly(3-alkylthiophene) Stars

Macromol. Symp. 291-292, 17-25 (2010)

176. B. E. Diebl, Y. Li, M. Cokoja, F. E. Kühn, N. Radhakrishnan, S. Zschoche, H. Komber, H. Y. Yeong, B. Voit, O. Nuyken, P. Hanefeld, H.-M. Walter
- Synthesis and Application of Molybdenum (III) Complexes Bearing Weakly Coordinating Anions as Catalysts of Isobutylene Polymerization
- J. Polym Sci.: Part A: Polym. Chem. 48 (17), 3775 – 3786 (2010)
177. S. Boye, H. Komber, P. Friedel, A. Lederer
- Solution properties of selectively modified hyperbranched polyesters
- Polymer 51(18), 4110 – 4120 (2010)
178. T. Hoffmann, D. Pospiech, L. Häußler, K. Sahre, H. Komber, C. Harnisch, M. Auf der Landwehr, A. Schäfer, M. Döring
- Phosphorus-containing Polysulfones - A Comparative Study
- High Performance Polymers, 22 (6), 715 – 741 (2010)
179. V. Senkovskyy, M. Sommer, R. Tkachov, H. Komber, W. T. S. Huck, A. Kiriya
- Convenient Route to Initiate Kumada Catalyst-Transfer Polycondensation Using Ni(dppe)Cl₂ or Ni(dppp)Cl₂ and Sterically Hindered Grignard Compounds
- Macromolecules 43 (23), 10157 – 10161 (2010)

2011

180. H. Satpathi, A. Ghosh, H. Komber, S. Banerjee, B. Voit
- Synthesis and characterization of new semifluorinated linear and hyperbranched poly(arylene ether phosphine oxide)s through B₂+A₂ and AB₂ approaches
- Europ. Polymer J., 47 (2), 196 - 207 (2011) DOI: [10.1016/j.eurpolymj.2010.11.012](https://doi.org/10.1016/j.eurpolymj.2010.11.012)
181. S. Werner, D. Pospiech, D. Jehnichen, K. Eckstein, H. Komber, P. Friedel, A. Janke, F. Näther, U. Reuter, B. Voit, R. Taurino, M. Messori
- Synthesis and phase separation behavior of alpha,omega-difunctionalized diblock copolymers

- J. Polym Sci.: Part A: Polym. Chem., 49 (4), 926 - 937 (2011) DOI: [10.1002/pola.24505](https://doi.org/10.1002/pola.24505)
182. U. Schulze, K. Sahre, M. Johannsen, H. Komber, B. Voit
Poly(10-undecene-1-ol) characterized by MALDI-TOF MS and NMR spectroscopy
Europ. Polymer J., 47 (3), 352 - 361 (2011) DOI: [10.1016/j.eurpolymj.2010.12.005](https://doi.org/10.1016/j.eurpolymj.2010.12.005)
183. R. Sablong, R. Duchateau, C. E. Koning, D. Pospiech, A. Korwitz, H. Komber, S. Starke, L. Häußler, D. Jehnichen, M. Auf der Landwehr
Incorporation of a flame retardancy enhancing phosphorus-containing diol into poly(butylene terephthalate) *via* solid state polymerisation: A comparative study
Polym. Degr. Stab., 96(3), 334 – 341 (2011) DOI: [10.1016/j.polymdegradstab.2010.07.001](https://doi.org/10.1016/j.polymdegradstab.2010.07.001)
184. M. Riedel, J. Stadermann, H. Komber, F. Simon, B. Voit
Synthesis, post-modification and self-assembled thin films of pentafluorostyrene containing block copolymers
Eur. Polym. J., 47 (4), 675 – 684 (2011) DOI: [10.1016/j.eurpolymj.2010.10.010](https://doi.org/10.1016/j.eurpolymj.2010.10.010)
185. R. Tkachov, V. Senkovskyy, H. Komber, A. Kiriy
Influence of Alkyl Substitution Pattern on Reactivity of Thiophene-Based Monomers in Kumada Catalyst-Transfer Polycondensation
Macromolecules, 44 (7), 2006 – 2015 (2011) DOI: [10.1021/ma102724y](https://doi.org/10.1021/ma102724y)
186. J. Stadermann, H. Komber, M. Erber, F. Däbritz, H. Ritter, B. Voit
Diblock copolymer formation via self-assembly of cyclodextrin and adamantyl end-functionalized polymers
Macromolecules, 44 (9), 3250 – 3259 (2011) DOI: [10.1021/ma200048a](https://doi.org/10.1021/ma200048a)
187. R. Pöttsch, S. Fleischmann, C. Tock, H. Komber, B. Voit
Combining RAFT and Staudinger Ligation: A Potentially New Synthetic Tool for Bioconjugate Formation
Macromolecules, 44 (9), 3260 – 3269 (2011) DOI: [10.1021/ma2000724](https://doi.org/10.1021/ma2000724)
188. A. Ghosh, S. Banerjee, H. Komber, L. Häußler, K. Schneider, B. Voit
New Semifluorinated Siloxane-Grafted Copolyimides: Synthesis and Comparison with Their Linear Analogs

Macromol. Mater. Eng., 296 (5), 391 – 400 (2011) DOI: [10.1002/mame.201000311](https://doi.org/10.1002/mame.201000311)

189. A. Ghosh, S. Chatterjee, S. Banerjee, H. Komber, B. Voit
Linear and Hyperbranched Poly(arylene ether)s from a New Semifluorinated AB Monomer
J. Macromol. Sci., Part A: Pure Appl. Chem., 48 (7), 509 – 517 (2011)
DOI: [10.1080/10601325.2011.579807](https://doi.org/10.1080/10601325.2011.579807)
190. C. Vogel, H. Komber, A. Quetschke, W. Butwilowski, A. Pötschke, K. Schlenstedt, J. Meier-Haack
Side-chain sulfonated random and multiblock poly(ether sulfone)s for PEM applications
Reactive Functional Polym., 71 (8), 828 – 842 (2011) DOI: [10.1016/j.reactfunctpolym.2011.04.006](https://doi.org/10.1016/j.reactfunctpolym.2011.04.006)
191. V. Senkovskyy, M. Sommer, R. Tkachov, H. Komber, M. Heuken, B. Voit, W. T. S. Huck, V. Kataev, A. Petr, A. Kiriya
Chain-Growth Polymerization of Unusual Anion-Radical Monomers Based on Naphthalene Diimide: A New Route to well-defined n-Type Conjugated Copolymers
J. Am. Chem. Soc., 133 (49), 19966–19970 (2011) DOI: [10.1021/ja208710x](https://doi.org/10.1021/ja208710x)
192. H. Komber, V. Senkovskyy, R. Tkachov, K. Johnson, A. Kiriya, W. T. S. Huck, M. Sommer
Ring walking versus trapping of Nickel(0) during Kumada catalyst transfer polycondensation using externally initiated electron-accepting thiophenebenzothiadiazole-thiophene precursors
Macromolecules, 44 (23), 9164 – 9172 (2011) DOI: [10.1021/ma2018827](https://doi.org/10.1021/ma2018827)
- 2012**
193. A. Ghosh, S. Banerjee, D.-Y. Wang, H. Komber, B. Voit
Synthesis, characterization and properties of new siloxane grafted copolyimides
J. Appl. Polym. Sci., 123 (5), 2959 – 2967 (2012) DOI: [10.1002/app.34927](https://doi.org/10.1002/app.34927)
194. M. Heuken, H. Komber, B. Voit
Polystyrene-Based C₆₀ Acceptor Copolymers through Azide-Alkyne Click Chemistry Approaches
Macromol. Chem. Phys., 213 (1), 97 – 107 (2012) DOI: [10.1002/macp.201100547](https://doi.org/10.1002/macp.201100547)
195. S. Zschoche, J. C. Rueda, M. Binner, H. Komber, A. Janke, K.-F. Arndt, S. Lehmann, B. Voit
Reversibly switchable pH- and thermo-responsive core-shell nanogels based on Poly(NiPAAm-*graft*-2-carboxyethyl-2-oxazoline)s

- Macromol. Chem. Phys., 213 (2), 215 – 226 (2012) DOI: [10.1002/macp.201100388](https://doi.org/10.1002/macp.201100388)
196. A. Ghosh, D. Bera, D.-Y. Wang, H. Komber, A. K. Mohanty, S. Banerjee, B. Voit
Synthesis, characterization and properties of new semifluorinated poly(arylene ether phosphine oxides)s
Macromol. Mater. Eng., 297 (2), 145 – 154 (2012) DOI: [10.1002/mame.201100139](https://doi.org/10.1002/mame.201100139)
197. M. Johannsen, U. Schulze, K. Sahre, H. Komber, B. Voit
Synthesis of Allyl-Terminated Polar Macromonomers by Metallocene-Catalyzed Polymerizations of 10-Undecene-1-ol
ACS Macro Lett., 1 (2), 352 – 355 (2012) DOI: [10.1021/mz200185b](https://doi.org/10.1021/mz200185b)
198. J. Stadermann, M. Riedel, H. Komber, F. Simon, B. Voit
Functionalized Block Copolymers for Preparation of Reactive Self-assembled Surface Patterns
J. Polym Sci.: Part A: Polym. Chem., 50 (7), 1351 – 1361 (2012) DOI: [10.1002/pola.25901](https://doi.org/10.1002/pola.25901)
199. P. Kohn, S. Huettner, H. Komber, V. Senkovskyy, R. Tkachov, A. Kiriya, R. H. Friend, U. Steiner, W. T. S. Huck, J.-U. Sommer, M. Sommer
On the role of single regio-defects and polydispersity in regioregular poly(3-hexylthiophene): Defect distribution, synthesis of defect-free chains and a simple model for the determination of crystallinity
J. Am. Chem. Soc., 134 (10), 4790 – 4805 (2012) DOI: [10.1021/ja210871j](https://doi.org/10.1021/ja210871j)
200. H. Komber, S. Chakraborty, B. Voit, S. Banerjee
Degree of sulfonation and microstructure of post-sulfonated polyethersulfone studied by NMR spectroscopy
Polymer, 53 (8), 1624 – 1631 (2012) DOI: [10.1016/j.polymer.2012.02.020](https://doi.org/10.1016/j.polymer.2012.02.020)

201. F. Däbritz, A. Lederer, H. Komber, B. Voit
Synthesis and characterization of two classes of hyperstar polymers bearing hyperbranched cores grafted with linear arms
J. Polym Sci.: Part A: Polym. Chem., 50 (10), 1979 – 1990 (2012) DOI: [10.1002/pola.25972](https://doi.org/10.1002/pola.25972)
202. D. Pospiech, S. Werner, D. Jehnichen, H. Komber, P. Friedel, U. Reuter, S. S. Funari, J. Perlich, B. Voit
Multifunctionalized methacrylate di- and triblock copolymers: synthesis and nanostructure
J. of Nanostructured Polymers and Nanocomposites, 8 (2), 58 - 66 (2012) Link: 03.08.02.04.html
203. M. Heuken, H. Komber, T. Erdmann, V. Senkovskyy, A. Kiriy, B. Voit
Fullerene-Functionalized Donor-Acceptor Block Copolymers through Etherification as Stabilizers for Bulk Heterojunction Solar Cells
Macromolecules, 45 (10), 4101 – 4114 (2012) DOI: [10.1021/ma300473w](https://doi.org/10.1021/ma300473w)
204. M. Sommer, H. Komber, S. Huettner, R. Mulherin, P. Kohn, N. C. Greenham, W. T. S. Huck
Synthesis, Purification and Characterization of Well-Defined All-Conjugated Diblock Copolymers F8TBT-*b*-P3HT
Macromolecules, 45 (10), 4142 – 4151 (2012) DOI: [10.1021/ma300533k](https://doi.org/10.1021/ma300533k)
205. A. Lederer, T. Hartmann, H. Komber
Sphere-Like Fourth Generation Pseudo-Dendrimers with a Hyperbranched Core
Macromol. Rapid Comm., 33 (17), 1440 – 1444 (2012) DOI: [10.1002/marc.201200223](https://doi.org/10.1002/marc.201200223)
206. V. Senkovskyy, R. Tkachov, H. Komber, A. John, J.-U. Sommer, A. Kiriy
Mechanistic Insight into Catalyst-Transfer Polymerization of unusual Anion-Radical Naphthalene Diimide Monomers: An Observation of Ni(0) Intermediates
Macromolecules, 45 (19), 7770 – 7777 (2012) DOI: [10.1021/ma301797w](https://doi.org/10.1021/ma301797w)
207. N. K. Singha, A. Kavitha, D. J. Haloi, P. Mandal, A. Janke, D. Jehnichen, H. Komber, B. Voit
Effect of Nanoclay on in situ Preparation of "All Acrylate" ABA Triblock Copolymers via ATRP and Their Morphology
Macromol. Chem. Phys., 213 (19), 2034 – 2043 (2012) DOI: [10.1002/macp.201200174](https://doi.org/10.1002/macp.201200174)

208. M. Paolino, F. Ennen, H. Komber, M. Cernescu, A. Cappelli, B. Brutschy, B. Voit, D. Appelhans
Self-assembly of poly(propylene imine) glycodendrimers: role of aromatic interactions in the formation of necklace- and donut-like nanostructures
Polymer Chem., 3 (12), 3239 – 3242 (2012) DOI: [10.1039/c2py20649h](https://doi.org/10.1039/c2py20649h)
209. A. Gube, H. Komber, K. Sahre, P. Friedel, B. Voit, F. Böhme
Formation of oligomeric and macrocyclic ureas based on 2,6-diaminopyridine
J. Org. Chem., 77 (21), 9620 – 9627 (2012) DOI: [10.1021/jo3015598](https://doi.org/10.1021/jo3015598)
210. S. Boye, D. Appelhans, V. Boyko, S. Zschoche, H. Komber, P. Friedel, P. Formanek, A. Janke, B. Voit, A. Lederer
pH Triggered Aggregate Shape of Different Generations Lysine-Dendronized Maleimide Copolymers with Maltose Shell
Biomacromolecules, 13 (12), 4222 – 4235 (2012) DOI: [10.1021/bm301489s](https://doi.org/10.1021/bm301489s)
- 2013**
211. M. Sommer, H. Komber
Spiropyran main-chain conjugated polymers
Macromol. Rapid Commun., 34 (1), 57 – 62 (2013) DOI: [10.1002/marc.201200688](https://doi.org/10.1002/marc.201200688)
212. J. M. McCarthy, B. Rasines Moreno, D. Filippini, H. Komber, M. Maly, M. Cernescu, B. Brutschy, D. Appelhans, M. S. Rogers
Influence of Surface Groups on Poly(propylene imine) Aendrimers Antiprion Activity
Biomacromolecules, 14 (1), 27 – 37 (2013) DOI: [10.1021/bm301165u](https://doi.org/10.1021/bm301165u)
213. A. K. Mohanty, E. A. Mistri, S. Banerjee, H. Komber, B. Voit
Highly fluorinated sulfonated poly(arylene ether sulfone) copolymers: Synthesis and evaluation of proton exchange membrane properties
Ind. Eng. Chem. Res., 52 (8), 2772 – 2783 (2013) DOI: [10.1021/ie303380a](https://doi.org/10.1021/ie303380a)
214. R. Mukherjee, A. K. Mohanty, S. Banerjee, H. Komber, B. Voit
Phthalimidine based fluorinated poly(arylene ether sulfone)s copolymer proton exchange membranes
J. Membr. Sci., 435, 145 – 154 (2013) DOI: [10.1016/j.memsci.2013.01.059](https://doi.org/10.1016/j.memsci.2013.01.059)

215. N. Zhang, L. Jakisch, H. Komber, B. Voit, F. Böhme
Synthesis of multifunctional coupling agents and their selective reactions with hydroxy and amino groups in melt
Tetrahedron, 69 (18), 3656 – 3663 (2013) DOI: [10.1016/j.tet.2013.03.024](https://doi.org/10.1016/j.tet.2013.03.024)
216. M. Messerschmidt, H. Komber, L. Häußler, C. Hanzelmann, M. Stamm, B. Raether, O. da Costa e Silva, P. Uhlmann
Amphiphilic ABC Triblock Copolymers Tailored via RAFT Polymerization as Textile Surface Modifiers with Dual-Action Properties
Macromolecules, 46 (7), 2616 – 2627 (2013) DOI: [10.1021/ma302471q](https://doi.org/10.1021/ma302471q)
217. M. Paolino, F. Ennen, S. Lamponi, M. Cernescu, B. Voit, A. Cappelli, D. Appelhans, H. Komber
Cyclodextrin-Adamantane Host-Guest Interactions on the Surface of Biocompatible Adamantyl-Modified Glycodendrimers
Macromolecules, 46 (9), 3215 – 3227 (2013) DOI: [10.1021/ma400352m](https://doi.org/10.1021/ma400352m)
218. E. A. Mistri, A. K. Mohanty, S. Banerjee, H. Komber, B. Voit
Naphthalene dianhydride based semifluorinated sulfonated copoly(ether imide)s: Synthesis, characterization and proton exchange properties
Journal of Membrane Science, 441, 168 – 177 (2013) DOI: [10.1016/j.memsci.2013.03.015](https://doi.org/10.1016/j.memsci.2013.03.015)
219. N. Hauptmann, M. Pion, M.-A. Munoz-Fernandez, H. Komber, C. Werner, D. Appelhans, B. Voit
Ni(II)-NTA Modified Poly(ethylene imine) Glycopolymers: Physicochemical Properties and First In Vitro Study of Polyplexes Formed with HIV-Derived Peptides
Macromol. Biosci., 13 (5), 531 – 538 (2013) DOI: [10.1002/mabi.201200449](https://doi.org/10.1002/mabi.201200449)
220. E. Vacas Córdoba, M. Pion, B. Rasines, D. Filippini, H. Komber, M. Ionov, M. Bryszewska, D. Appelhans, M. Ángeles Muñoz-Fernández,
Glycodendrimers as new tools in the search for effective anti-HIV DC-based immunotherapies
Nanomedicine: Nanotechnology, Biology and Medicine, 9 (7), 972 – 984 (2013)
DOI: [10.1016/j.nano.2013.03.004](https://doi.org/10.1016/j.nano.2013.03.004)
221. C. Langner, J. Meier-Haack, B. Voit, H. Komber
The stepped reaction of decafluorobiphenyl with thiophenol studied by in situ ¹⁹F NMR spectroscopy
Journal of Fluorine Chemistry, 156, 314 – 321 (2013) DOI: [10.1016/j.jfluchem.2013.07.013](https://doi.org/10.1016/j.jfluchem.2013.07.013)

222. R. Pöttsch, H. Komber, B. C. Stahl, C. J. Hawker, B. I. Voit

Radical Thiol-Yne Chemistry on Diphenylacetylene - Selective and Quantitative Addition Enabling The Synthesis of Hyperbranched Poly(vinyl sulfide)s

Macromol. Rapid Comm., 34(22), 1772-1778 (2013)

DOI: [10.1002/marc.201300707](https://doi.org/10.1002/marc.201300707)

2014

223. J. C. Rueda, E. Campos, H. Komber, S. Zschoche, L. Häussler, B. Voit

Synthesis and characterization of new pH- and thermo-responsive hydrogels based on N-isopropylacrylamide and 2-oxazolines

Designed Monomers and Polymers, 17(3), 208-216 (2014)

DOI: [10.1080/15685551.2013.840471](https://doi.org/10.1080/15685551.2013.840471)

224. A. K. Mohanty, S. Banerjee, H. Komber, B. Voit

Imidoaryl biphenol based new fluorinated sulfonated poly(arylene ether sulfone) copolymers and their proton exchange membrane properties

Solid State Ionics, 254, 82-91 (2014)

DOI: [10.1016/j.ssi.2013.11.029](https://doi.org/10.1016/j.ssi.2013.11.029)

225. H. Komber, S. Müllers, F. Lombeck, A. Held, M. Walter, M. Sommer

Soluble and stable alternating main-chain merocyanine copolymers through quantitative spiropyran-merocyanine conversion

Polymer Chemistry, 5(2), 443-453 (2014)

DOI: [10.1039/c3py00853c](https://doi.org/10.1039/c3py00853c)

226. F. Ennen, S. Boye, A. Lederer, M. Cernescu, H. Komber, B. Brutschy, B. Voit, D. Appelhans

Biohybrid structures consisting of biotinylated glycodendrimers and proteins: Influence of the biotin ligand's number and chemical nature on the biotin-avidin conjugation

Polymer Chemistry, 5(4), 1323-1339 (2014)

DOI: [10.1039/C3PY01152F](https://doi.org/10.1039/C3PY01152F)

227. R. Pöttsch, B. C. Stahl, H. Komber, C. J. Hawker, B. I. Voit

High Refractive Index Polyvinylsulfide Materials Prepared By Selective Radical Mono-Addition Thiol-Yne Chemistry

Polymer Chemistry, 5(8), 2911-2921 (2014)

DOI: [10.1039/C3PY01740K](https://doi.org/10.1039/C3PY01740K)

228. W. Liu, R. Tkachov, H. Komber, V. Senkovskyy, M. Schubert, Z. Wei, A. Facchetti, D. Neher, A. Kiriy

Chain-Growth Polycondensation of Perylene Diimide-Based Copolymers: a New Route to Regio-Regular Perylene Diimide-Based Acceptors for All-Polymer Solar Cells and n-Type Transistors

Polymer Chemistry, 5(10), 3404-3411 (2014)

DOI: [10.1039/C3PY01707A](https://doi.org/10.1039/C3PY01707A)

229. S. Kinder, H. Komber, D. Jehnichen, L. Häussler, F. Böhme, M. Garaleh, D. Pospiech, B. Voit, U. Schulze
Synthesis and characterization of comb-like copolymers based on poly(ϵ -caprolactone) and poly(α -olefin)
Macromol. Chem. Phys., 215(8), 733-741 (2014) DOI: [10.1002/macp.201300695](https://doi.org/10.1002/macp.201300695)
230. K. Awasthi, S. Choudhury, H. Komber, F. Simon, P. Formanek, A. Sharma, M. Stamm
Functionalization of track-etched poly(ethylene terephthalate) membranes as a selective filter for hydrogen purification
Intern. Journal of Hydrogen Energy, 39(17), 9356-9365 (2014) DOI: [10.1016/j.ijhydene.2014.03.240](https://doi.org/10.1016/j.ijhydene.2014.03.240)
231. D. Schiefer, T. Wen, Y. Wang, P. Goursot, H. Komber, R. Hanselmann, P. Braunstein, G. Reiter, M. Sommer
Nickel catalyst with a hybrid P, N ligand for Kumada catalyst transfer polycondensation of sterically hindered thiophenes
ACS Macro Letters, 3(6), 617-621 (2014) DOI: [10.1021/mz500282j](https://doi.org/10.1021/mz500282j)
232. S. Chakraborty, K. Jähnichen, H. Komber, A. A. Basfar, B. Voit
Synthesis of magnetic polystyrene nanoparticles using amphiphilic ionic liquid stabilized RAFT mediated miniemulsion polymerization
Macromolecules, 47(13), 4186-4189 (2014) DOI: [10.1021/ma5008013](https://doi.org/10.1021/ma5008013)
233. A. Singh, R. Mukherjee, S. Banerjee, H. Komber, B. Voit
Sulfonated polytriazoles from a new fluorinated diazide monomer and investigation of their proton exchange properties
Journal of Membrane Science, 469, 225 – 237 (2014) DOI: [10.1016/j.memsci.2014.06.043](https://doi.org/10.1016/j.memsci.2014.06.043)
234. F. Lombeck, H. Komber, S. I. Gorelsky, M. Sommer
Identifying homocouplings as critical side reactions in direct arylation polycondensation
ACS Macro Letters, 3(8), 819-823 (2014) DOI: [10.1021/mz5004147](https://doi.org/10.1021/mz5004147)
235. R. Tkachov, H. Komber, V. Senkovskyy, S. Rauch, A. Lederer, U. Oertel, L. Häußler, B. Voit, A. Kiriy
One-Pot Synthesis of All-Conjugated Block-Like Bisthiophene-Naphthalenediimide / Fluorene Copolymer
Macromolecules, 47(15), 4994-5001 (2014) DOI: [10.1021/ma5006588](https://doi.org/10.1021/ma5006588)

236. R. Mukherjee, S. Banerjee, H. Komber, B. Voit
High proton conducting fluorinated sulfonated poly(arylene ether sulfone)s copolymers with side chain grafting
RSC Advances, 4 (87), 46723-46736 (2014) DOI: [10.1039/C4RA07291J](https://doi.org/10.1039/C4RA07291J)
237. Q. Wei, R. Pötzsch, H. Komber, D. Pospiech, B. Voit
High Refractive Index Hyperbranched Polymers with Different Naphthalene Contents Through Thiol – Yne Click Reaction Using Disubstituted Asymmetric Bulky Alkynes
Polymer, 55 (22), 5600 – 5607 (2014) DOI: [10.1016/j.polymer.2014.07.030](https://doi.org/10.1016/j.polymer.2014.07.030)
238. M. Paolino, H. Komber, L. Mennuni, G. Caselli, D. Appelhans, B. Voit, A. Capelli
Supramolecular glycodendrimer-based hybrid drugs
Biomacromolecules, 15 (11), 3985 – 3993 (2014) DOI: [10.1021/bm501057d](https://doi.org/10.1021/bm501057d)
239. A. Luzio, D. Fazzi, F. Nübling, R. Matsidik, A. Straub, H. Komber, E. Giussani, S. E. Watkins, M. Barbatti, W. Thiel, E. Gann, L. Thomsen, C. R. McNeill, M. Caironi, M. Sommer
Structure-function relationships of high electron-mobility naphthalene diimide copolymers prepared by direct arylation
Chemistry of Materials, 26 (21), 6233 – 6240 (2014) DOI: [10.1021/cm503033j](https://doi.org/10.1021/cm503033j)
- 2015**
240. F. Lombeck, R. Matsidik, H. Komber, M. Sommer
Simple Synthesis of P(Cbz-alt-TBT) and PCDTBT by Combining Direct Arylation With Suzuki Polycondensation of Heteroaryl Chlorides
Macromol. Rapid Comm., 36 (2), 231 – 237 (2015) DOI: [10.1002/marc.201400437](https://doi.org/10.1002/marc.201400437)
241. R. Matsidik, J. Martin, S. Schmidt, J. Obermeyer, F. Lombeck, F. Nübling, H. Komber, D. Fazzi, M. Sommer
C–H Arylation of Unsubstituted Furan and Thiophene with Acceptor Bromides: Access to Donor–Acceptor–Donor-Type Building Blocks for Organic Electronics
The Journal of Organic Chemistry, 80 (2), 980 – 987 (2015) DOI: [10.1021/jo502432e](https://doi.org/10.1021/jo502432e)

242. M. Tahir, K. W. Stöckelhuber, N. Mahmood, H. Komber, G. Heinrich
Reactive Blending of Nitrile Butadiene Rubber and Thermoplastic Polyurethane-Urea: Characterization and Properties
Macromol. Mat. Engin., 300 (2), 242 - 250 (2015) DOI: [10.1002/mame.201400298](https://doi.org/10.1002/mame.201400298)
243. L. Metzler, T. Reichenbach, O. Brügger, H. Komber, F. Lombeck, St. Müllers, R. Hanselmann, H. Hillebrecht, M. Walter, M. Sommer
High molecular weight mechanochromic spiropyran main chain copolymers *via* reproducible microwave-assisted Suzuki polycondensation
Polymer Chemistry, 6 (19), 3694 – 3707 (2015) DOI: [10.1039/c5py00141b](https://doi.org/10.1039/c5py00141b)
244. R. Matsidik, H. Komber, A. Luzio, M. Caironi, M. Sommer
Defect-free naphthalene diimide bithiophene copolymers with controlled molar mass and high performance via direct arylation polycondensation
J. Am. Chem. Soc., 137 (20), 6705 – 6711 (2015) DOI: [10.1021/jacs.5b03355](https://doi.org/10.1021/jacs.5b03355)
245. D. Pospiech, A. Korwitz, H. Komber, D. Jehnichen, L. Häußler, H. Scheibner, M. Liebmann, K. Jähnichen, B. Voit
Biobased aliphatic polyesters with DOPO substituents for enhanced flame retardancy
Macromol. Chem. Phys., 216 (13), 1447 – 1461 (2015) DOI: [10.1002/macp.201500121](https://doi.org/10.1002/macp.201500121)
246. S. Zakrzewska, H. Komber, L. Häussler, S. A. Miller, H. T. H. Nguyen, B. Voit, U. Schulze
Controlled homo- and copolymerization of propene and 1-undecene catalyzed by post-metallocenes
Europ. Polymer J., 70, 104-117 (2015) DOI: [10.1016/j.eurpolymj.2015.07.009](https://doi.org/10.1016/j.eurpolymj.2015.07.009)
247. J. C. Rueda, M. Asmad, V. Ruiz, H. Komber, St. Zschoche, B. Voit
Synthesis and characterization of new bi-sensitive copoly(2-oxazolines)
Designed Monomers and Polymers, 18 (8), 761-769 (2015) DOI: [10.1080/15685551.2015.1078109](https://doi.org/10.1080/15685551.2015.1078109)
248. M. Tahir, K. W. Stöckelhuber, N. Mahmood, H. Komber, P. Formanek, S. Wießner, G. Heinrich
Highly reinforced blends of nitrile butadiene rubber and *in-situ* synthesized polyurethane-urea
Europ. Polymer Journal, 73, 75-87 (2015) DOI: [10.1016/j.eurpolymj.2015.09.024](https://doi.org/10.1016/j.eurpolymj.2015.09.024)

249. S. Broll, F. Nübling, A. Luzio, D. Lentzas, H. Komber, M. Caironi, M. Sommer
Defect Analysis of High Electron Mobility Diketopyrrolopyrrole Copolymers Made by Direct Aryation Polycondensation
Macromolecules, 48 (20), 7481-7488 (2015) DOI: [10.1021/acs.macromol.5b01843](https://doi.org/10.1021/acs.macromol.5b01843)
250. F. Lombeck, H. Komber, A. Sepe, R. H. Friend, M. Sommer
Enhancing Phase Separation and Photovoltaic Performance of All-conjugated Donor-Acceptor Block Copolymers with Semiperfluorinated Alkyl Side Chains
Macromolecules, 48 (21), 7851-7860 (2015) DOI: [10.1021/acs.macromol.5b01845](https://doi.org/10.1021/acs.macromol.5b01845)
251. H. Zhang, L. Jakisch, H. Komber, L. Häußler, B. Voit, F. Böhme
Novel graft copolymers with aliphatic polyether and polyester main chains
Polymer, 79, 232 – 242 (2015) DOI: [10.1016/j.polymer.2015.10.023](https://doi.org/10.1016/j.polymer.2015.10.023)
252. E. A. Mistri, S. Banerjee, H. Komber, B. Voit
Structure-property correlation of semifluorinated 6-membered co-SPIs for proton exchange membrane
Europ. Polymer J., 73, 466-479 (2015) DOI: [10.1016/j.eurpolymj.2015.11.006](https://doi.org/10.1016/j.eurpolymj.2015.11.006)
253. R. Matsidik, H. Komber, M. Sommer
Rational Use of Aromatic Solvents for Direct Arylation Polycondensation: C-H Reactivity versus Solvent Quality
ACS Macro Letters, 4 (12), 1346-1350 (2015) DOI: [10.1021/acsmacrolett.5b00783](https://doi.org/10.1021/acsmacrolett.5b00783)
- 2016**
254. F. Ennen, P. Fenner, S. Boye, A. Lederer, H. Komber, B. Voit, D. Appelhans
Sphere-like protein-glycopolymer nanostructures tailored by polyassociation
Biomacromolecules, 17 (1), 32-45 (2016) DOI: [10.1021/acs.biomac.5b00975](https://doi.org/10.1021/acs.biomac.5b00975)
255. A. Singh, S. Banerjee, H. Komber, B. Voit
Synthesis and characterization of highly fluorinated sulfonated polytriazoles for proton exchange membrane application
RSC Advances, 6 (16), 13478-13489 (2016) DOI: [10.1039/C5RA26821D](https://doi.org/10.1039/C5RA26821D)
256. Q. Wei, R. Pötzsch, X. Liu, H. Komber, A. Kiriy, B. Voit, P.-A. Will, S. Lenk, S. Reineke

Hyperbranched Polymers with High Transparency and Inherent High Refractive Index for Application in Organic Light-Emitting Diodes

Advanced Functional Materials, 26 (15), 2545-2553 (2016) DOI: [10.1002/adfm.201504914](https://doi.org/10.1002/adfm.201504914)

257. Y. Karpov, R. Tkachov, J. Maiti, T. Beryozkina, V. Bakulev, W. Liu, H. Komber, U. Lappan, M. Al-Hussein, M. Stamm, B. Voit, A. Kiriy

Copolymerization of zinc-activated isoindigo- and naphthalene-diimide based monomers: an efficient route to low bandgap π -conjugated random copolymers with tunable properties

Polymer Chemistry, 7 (15), 2691-2697 (2016) DOI: [10.1039/C6PY00055J](https://doi.org/10.1039/C6PY00055J)

258. R. Mukherjee, S. Banerjee, H. Komber, B. Voit

Carboxylic acid functionalized fluorinated sulfonated poly(arylene ether sulfone) copolymers with enhanced oxidative stability

Journal of Membrane Science, 510, 497-509 (2016) DOI: [10.1016/j.memsci.2016.03.028](https://doi.org/10.1016/j.memsci.2016.03.028)

259. J. Diebler, H. Komber, L. Häußler, A. Lederer, T. Werner

Alkoxide Initiated Regioselective Coupling of Carbon Disulfide and Terminal Epoxides for the Synthesis of Strongly Alternating Copolymers

Macromolecules, 49, 4723-4731 (2016) DOI: [10.1021/acs.macromol.6b00728](https://doi.org/10.1021/acs.macromol.6b00728)

260. F. Lombeck, H. Komber, D. Fazzi, D. Nava, J. Kuhlmann, D. Stegerer, K. Strassel, J. Brandt, A. Diaz de Zerio Mendaza, C. Müller, W. Thiel, M. Caironi, R. Friend, M. Sommer

On the effect of prevalent carbazole homocoupling defects on the photovoltaic performance of PCDTBT:PC71BM solar cells

Advanced Energy Materials, 6 (21), ohne Seitenzahl (2016) DOI: [10.1002/aenm.201601232](https://doi.org/10.1002/aenm.201601232)

261. D. Schiefer, H. Komber, F. Mugwanga Keheze, S. Kunz, R. Hanselmann, G. Reiter, M. Sommer

Poly(3-(2,5-dioctylphenyl)thiophene) synthesized by direct arylation polycondensation: End groups, defects and crystallinity

Macromolecules, 49, 7230-7237 (2016) DOI: [10.1021/acs.macromol.6b01795](https://doi.org/10.1021/acs.macromol.6b01795)

262. R. Matsidik, A. Luzio, S. Hameury, H. Komber, C. R. McNeill, M. Caironi, M. Sommer
Effects of PNDIT2 end groups on aggregation, thin film structure, alignment and electron transport in field-effect transistors
J. Mater. Chem. C., 4, 10371-10380 (2016) DOI: [10.1039/c6tc03804b](https://doi.org/10.1039/c6tc03804b)
- 2017**
263. Q. Wei, P. Kleine, Y. Karpov, X. Qiu, H. Komber, K. Sahre, A. Kiriya, R. Lygaitis, S. Lenk, S. Reineke, B. Voit
Conjugation induced thermally activated delayed fluorescence (TADF): from conventional non-TADF units to TADF-active polymers
Adv. Funct. Materials, 27 (7), 1605051 (2017) DOI: [10.1002/adfm.201605051](https://doi.org/10.1002/adfm.201605051)
264. S. Zschoche, J. C. Rueda, M. Binner, H. Komber, A. Janke, D. Appelhans, B. Voit
Temperature- and pH-dependent aggregation behavior of dual-sensitive poly(2-oxazoline)s block copolymers as latent amphiphilic macromolecules
Europ. Polymer J., 88, 623-635 (2017) DOI: [10.1016/j.eurpolymj.2016.11.014](https://doi.org/10.1016/j.eurpolymj.2016.11.014)
265. J. Ma, J. Liu, M. Baumgarten, Y. Fu, Y.-Z. Tan, K. S. Schellhammer, F. Ortmann, G. Cuniberti, H. Komber, R. Berger, K. Müllen, X. Feng
A stable saddle-shaped polycyclic hydrocarbon with an open-shell singlet ground state
Angew. Chemie, 129 (12), 3328–3332 (2017) DOI: [10.1002/ange.201611689](https://doi.org/10.1002/ange.201611689)
Angew. Chemie, Int. Ed. 56 (12), 3280–3284 (2017) DOI: [10.1002/anie.201611689](https://doi.org/10.1002/anie.201611689)
266. F. Nübling, H. Komber, M. Sommer
All-conjugated, all-crystalline donor-acceptor block copolymers P3HT-b-PNDIT2 via direct arylation polycondensation
Macromolecules, 50 (5), 1909–1918 (2017) DOI: [10.1021/acs.macromol.7b00251](https://doi.org/10.1021/acs.macromol.7b00251)
267. R. Tkachov, L. Stepien, A. Roch, H. Komber, F. Hennersdorf, J. J. Weigand, I. Bauer, A. Kiriya, Ch. Leyens
Facile synthesis of potassium tetrathiooxalate – The “true” monomer for the preparation of electron-conductive poly(nickel-ethylenetetrathiolate)
Tetrahedron, 73 (16), 2250-2254 (2017) DOI: [10.1016/j.tet.2017.03.010](https://doi.org/10.1016/j.tet.2017.03.010)
268. J. Liu, J. Ma, K. Zhang, P. Ravat, P. Machata, S. Avdoshenko, F. Hennersdorf, H. Komber, W. Pisula, J. J. Weigand, A. A. Popov, R. Berger, K. Müllen, X. Feng

π -Extended and Curved Antiaromatic Polycyclic Hydrocarbons

J. Am. Chem. Soc., 139 (22), 7513-7521 (2017)

DOI: [10.1021/jacs.7b01619](https://doi.org/10.1021/jacs.7b01619)

269. C. Vogel, H. Komber, J. Meier-Haack

Temperature-stable anion-exchange materials from cyclopolymerization of quaternary ammonium halides

React. Funct. Polym., 117, 34-42 (2017)

DOI: [10.1016/j.reactfunctpolym.2017.06.001](https://doi.org/10.1016/j.reactfunctpolym.2017.06.001)

270. F. Lombeck, St. Müllers, H. Komber, S. M. Menke, A. J. Pearson, P. J. Conaghan, Ch. R. McNeill, R. H. Friend, M. Sommer

Benzoyl side-chains push the open-circuit voltage of PCDTBT/PCBM solar cells beyond 1 V

Organic Electronics, 49, 142-151 (2017)

DOI: [10.1016/j.orgel.2017.06.055](https://doi.org/10.1016/j.orgel.2017.06.055)

271. R. Matsidik, A. Luzio, Ö. Askin, D. Fazzi, A. Sepe, U. Steiner, H. Komber, M. Caironi, M. Sommer

Highly planarized naphthalene diimide-bifuran copolymers with unexpected charge transport performance

Chem. Mater., 29 (13), 5473-5483 (2017)

DOI: [10.1021/acs.chemmater.6b05313](https://doi.org/10.1021/acs.chemmater.6b05313)

272. F. Lombeck, F. Marx, K. Strassel, S. Kunz, C. Lienert, H. Komber, R. H. Friend, M. Sommer

To branch or not to branch: C-H selectivity of thiophene-based donor-acceptor-donor monomers for use in direct arylation polycondensation exemplified by PCDTBT

Polym. Chem., 8, 4738-4745 (2017)

DOI: [10.1039/C7PY00879A](https://doi.org/10.1039/C7PY00879A)

273. S. Saha, S. Banerjee, H. Komber, B. Voit

Flexible diazide based new sulfonated polytriazoles: Synthesis, characterization and proton exchange properties

Macromol. Chem. Phys., 218 (14), 1700070 (2017)

DOI: [10.1002/macp.201700070](https://doi.org/10.1002/macp.201700070)

274. D. Pospiech, D. Jehnichen, K. Eckstein, P. Scheibe, H. Komber, K. Sahre, A. Janke, U. Reuter, L. Häußler, L. Schellkopf, P. Friedel, B. Voit

Semifluorinated PMMA block copolymers: Synthesis, nanostructure and thin film properties

Macromol. Chem. Phys., 218 (18), 1600599 (2017)

DOI: [10.1002/macp.201600599](https://doi.org/10.1002/macp.201600599)

275. A. Singh, S. Bisoi, S. Banerjee, H. Komber, B. Voit

Hydroquinone based sulfonated copolytriazoles with enhanced proton conductivity

Macromol. Materials and Engineering, 302 (11), 1700208 (2017) DOI: [10.1002/mame.201700208](https://doi.org/10.1002/mame.201700208)

276. A. K. Mandal, S. Bisoi, S. Banerjee, H. Komber, B. Voit

Sulfonated copolyimides containing trifluoromethyl and phosphine oxide moieties: Synergistic effect towards proton exchange membrane properties

European Polymer Journal, 95, 581-595 (2017) DOI: [10.1016/j.eurpolymj.2017.08.050](https://doi.org/10.1016/j.eurpolymj.2017.08.050)

2018

277. J. Vaezi, M. Nekoomanesh, H. A. Khonakdar, S. H. Jafari, H. Komber., A. Mojarad

On the correlation of rheology and morphology of bimodal polypropylene reactor blends synthesized by homogeneous binary metallocene/metallocene catalysts

Polym. Plast. Technol. Eng., 57 (8), 791 – 803 (2018) DOI: [10.1080/03602559.2017.1354220](https://doi.org/10.1080/03602559.2017.1354220)

278. Y. Shin, A. Welford, H. Komber, R. Matsidik, T. Thurn-Albrecht, Ch. R. McNeill, M. Sommer

Regioregular polymer analogous thionation of naphthalene diimide-bithiophene copolymers

Macromolecules, 51 (3), 984 – 991 (2018) DOI: [10.1021/acs.macromol.7b02355](https://doi.org/10.1021/acs.macromol.7b02355)

279. M. Schwarzer, A. Korwitz, H. Komber, L. Häußler, B. Dittrich, B. Schartel, D. Pospiech

Phosphorus-Containing Polymer Flame Retardants for Aliphatic Polyesters

Macromolecular Materials and Engineering, 303 (2), 1700512 (2018) DOI: [10.1002/mame.201700512](https://doi.org/10.1002/mame.201700512)

280. S. Saha, A. G. Kumar, Md. T. Noori, S. Banerjee, M. M. Ghangrekar, H. Komber, B. Voit

New Crosslinked Sulfonated Polytriazoles: Proton Exchange Properties and Microbial Fuel Cell Performance

European Polymer Journal, 103 (6), 322-334 (2018) DOI: [10.1016/j.eurpolymj.2018.04.023](https://doi.org/10.1016/j.eurpolymj.2018.04.023)

281. A. G. Kumar, A. Singh, H. Komber, B. Voit, B. R. Tiwari, Md. T. Noori, M. M. Ghangrekar, S. Banerjee

Novel sulfonated co-poly(ether imide)s containing trifluoromethyl, fluorenyl and hydroxyl groups for enhanced proton exchange membrane properties: Application in microbial fuel cell

ACS Applied Materials & Interfaces, 10 (17), 14803-14817 (2018) DOI: [10.1021/acsami.8b03452](https://doi.org/10.1021/acsami.8b03452)

282. M. R. Ajayakumar, Y. Fu, J. Ma, F. Hennersdorf, H. Komber, J. J. Weigand, A. Alfonsov, A. A. Popov, R. Berger, J. Liu, K. Müllen, X. Feng

Toward Full Zigzag-Edged Nanographenes: peri-Tetracene and Its Corresponding Circumanthracene

J. Am. Chem. Soc., 140 (20), 6240-6244 (2018)

DOI: [10.1021/jacs.8b03711](https://doi.org/10.1021/jacs.8b03711)

283. Y. Shin, M. Massetti, H. Komber, D. Nava, G. Lanzani, M. Caironi, M. Sommer

Improving miscibility of a naphthalene dimide-bithiophene copolymer with n-type dopants through the incorporation of “kinked” monomers

Adv. Electron. Mater. 4 (10), 1700581 (2018)

DOI: [10.1002/aelm.201700581](https://doi.org/10.1002/aelm.201700581)

284. J. C. Rueda, M. Malásquez, L. Lagos, H. Komber, St. Zschoche, B. Voit

Síntesis de hidrogeles conmutables a partir de N-isopropilacrilamida, macromonomeros de 2-oxazolinás y laponita

Revista de la Sociedad Química del Perú, 84 (1), 143-56 (2018)

http://www.scielo.org.pe/scielo.php?script=sci_abstract&pid=S1810-634X2018000100013&lng=en&nrm=iso&tlng=en

285. R. Matsidik, M. Giorgio, A. Luzio, M. Caironi, H. Komber, M. Sommer

A defect-free naphthalene diimide bithiazole copolymer via regioselective direct arylation polycondensation

Europ. J. Org. Chem., 2018 (44), 6121-6126

DOI: [10.1002/ejoc.201800821](https://doi.org/10.1002/ejoc.201800821)

2019

286. F. Nübling, T. R. Hopper, B. Kuei, H. Komber, V. Untilova, M. Brinkmann, E. D. Gomez, A. A. Bakulin, M. Sommer

Block junction functionalized all-conjugated donor acceptor block copolymers

ACS Applied Materials & Interfaces, 11 (1), 1143-1155 (2019)

DOI: [10.1021/acsami.8b18608](https://doi.org/10.1021/acsami.8b18608)

287. S. Grätz, H. Komber, M. Bauer, B. Voit

Diels-Alder Reaction between Cyanates and Cyclopentadienone-Derivatives – A New Class of Crosslinkable Oligomers

Polymer Chemistry, 10 (6), 698-704 (2019)

DOI: [10.1039/C8PY01374H](https://doi.org/10.1039/C8PY01374H)

Polymer Chemistry Blog - Paper of the month (March 2019):

<http://blogs.rsc.org/py/2019/03/01/paper-of-the-month-a-diels-alder-reaction-between-cyanates-and-cyclopentadienone-derivatives-a-new-class-of-crosslinkable-oligomers/>

288. J. Lenz, D. Pospiech, H. Komber, M. Paven, R. Albach, S. Mentizi, G. Langstein, B. Voit
Synthesis of the H-phosphonate dibenzo[d,f][1,3,2]dioxaphosphepine 6-oxide and the phospho-Michael addition to unsaturated compounds
Tetrahedron, 75 (9), 1306-1310 (2019) DOI: [10.1016/j.tet.2019.01.045](https://doi.org/10.1016/j.tet.2019.01.045)
289. J. Ma, K. Zhang, K. S. Schellhammer, Y. Fu, H. Komber, C. Xu, A. A. Popov, F. Hennersdorf, J. J. Weigand, S. Zhou, W. Pisula, F. Ortmann, R. Berger, J. Liu, X. Feng
Wavy-shaped polycyclic hydrocarbons with controlled aromaticity
Chemical Science, 10 (14), 4025-4031 (2019) DOI: [10.1039/C8SC05416A](https://doi.org/10.1039/C8SC05416A)
290. M. Suckow, M. Lang, H. Komber, D. Pospiech, M. Wagner, F. Weinelt, F.-E. Baumann, F. Böhme
Bisdithiooxalate as novel coupling agent for amino-terminated polymers
Polymer Chemistry, 10 (15), 1930-1937 (2019) DOI: [10.1039/c8py01723a](https://doi.org/10.1039/c8py01723a)
291. K. Xu, J. I. Urgel, K. Eimre, M. Di Giovannantonio, A. Keerthi, H. Komber, S. Wang, A. Narita, R. Berger, P. Ruffieux, C. A. Pignedoli, J. Liu, K. Müllen, R. Fasel, X. Feng
On-surface synthesis of a nonplanar porous nanographene
J. Am. Chem. Soc., 141 (19), 7726-7730 (2019) DOI: [10.1021/jacs.9b03554](https://doi.org/10.1021/jacs.9b03554)
292. Ch. Horn, D. Pospiech, J. Zessin, S. Stein, D. Jehnichen, H. Komber, M. Göbel, B. Voit, A. Kiriy
Synthesis and characterization of a regioregular side-chain semifluorinated polythiophene
physica status solidi (a) – applications and materials science, 216 (12), 1800747 (2019)
DOI: [10.1002/pssa.201800747](https://doi.org/10.1002/pssa.201800747)
293. M. Nasrollahzadeh, M. Sajjadi, H. Komber, H. A. Khonakdar, S. M. Sajadi
In situ green synthesis of Cu-Ni bimetallic nanoparticles supported on reduced graphene oxide as an effective and recyclable catalyst for the synthesis of *N*-benzyl-*N*-aryl-5-amino-1*H*-tetrazoles
Applied Organometallic Chemistry, 33 (7), e4938 (2019) DOI: [10.1002/aoc.4938](https://doi.org/10.1002/aoc.4938)
294. A. G. Kumar, S. Saha, H. Komber, B. R. Tiwari, M. M. Ghangrekar, B. Voit, S. Banerjee
Trifluoromethyl and Benzyl Ether Side Groups Containing Novel Sulfonated Co-Poly(ether imide)s: Application in Microbial Fuel Cell
Europ. Polymer J., 118, 451-464 (2019) DOI: [10.1016/j.eurpolymj.2019.06.014](https://doi.org/10.1016/j.eurpolymj.2019.06.014)

295. J. Liu, S. Mishra, C. A. Pignedoli, D. Passerone, J. I. Urgel, A. Fabrizio, T. G. Lohr, J. Ma, H. Komber, M. Baumgarten, C. Corminboeuf, R. Berger, P. Ruffieux, K. Müllen, R. Fasel, X. Feng
Open-shell nonbenzenoid nanographenes containing two pairs of pentagonal and heptagonal rings
J. Am. Chem. Soc., 141 (30), 12011-12020 (2019) DOI: [10.1021/jacs.9b04718](https://doi.org/10.1021/jacs.9b04718)
296. D. Pospiech, A. Korwitz, K. Eckstein, H. Komber, D. Jehnichen, M. Suckow, A. Lederer, K. Arnhold, M. Göbel, M. Bremer, A. Hoffmann, S. Fischer, A. Werner, T. Walther, H. Brünig, B. Voit
Fiber formation and properties of polyester/lignin blends
J. Applied Polym. Sci., 136 (46), 48257 (2019) DOI: [10.1002/app.48257](https://doi.org/10.1002/app.48257)
297. M. Heinze, S. Starke, M. Händler, H. Komber, M. Drache, N. Moszner, B. Voit, D. Pospiech
Combination of nuclear magnetic resonance spectroscopy and nonlinear methods to analyze the copolymerization of phosphonic acid derivatives
J. Applied Polym. Sci., 136 (48), 48256 (2019) DOI: [10.1002/app.48256](https://doi.org/10.1002/app.48256)
298. D. Adamczak, H. Komber, A. Illy, A. D. Scaccabarozzi, M. Caironi, M. Sommer
Indacenodithiophene homopolymers via direct arylation: direct polycondensation versus polymer analogous reaction pathways
Macromolecules, 52 (19), 7251-7259 (2019) DOI: [10.1021/acs.macromol.9b01269](https://doi.org/10.1021/acs.macromol.9b01269)
299. M. Paolino, M. Licciardi, C. Savoca, G. Giammona, L. Modica De Mohac, A. Reale, G. Giuliani, H. Komber, A. Donati, G. Leone, A. Magnani, M. Anzini, A. Cappelli
Hyaluronan graft copolymers bearing fatty-acid residues as self-assembling nanoparticles for olanzapine delivery
Pharmaceutics, 11 (12), 675 (2019) DOI: [10.3390/pharmaceutics11120675](https://doi.org/10.3390/pharmaceutics11120675)

2020

300. P.-Y. Ho, H. Komber, K. Horatz, T. Tsuda, S. Mannsfeld, E. Dmitrieva, O. Blacque, U. Kraft, H. Siringhaus, F. Lissel
Synthesis and Characterization of a Semiconducting and Solution-processable Ruthenium-based Polymetallayne
Polymer Chemistry, 11 (2), 472-479 (2020) DOI: [10.1039/C9PY01090D](https://doi.org/10.1039/C9PY01090D)
301. S. Stein, A. Mordvinkin, B. Voit, H. Komber, K. Saalwächter, F. Böhme
Self-healing and reprocessable bromo butylrubber based on combined ionic cluster formation and hydrogen bonding
Polymer Chemistry, 11 (6), 1188-1197 (2020) DOI: [10.1039/C9PY01630A](https://doi.org/10.1039/C9PY01630A)
302. J. Ma, Y. Fu, E. Dmitrieva, F. Liu, H. Komber, F. Hennersdorf, A. A. Popov, J. J. Weigand, J. Liu, X. Feng
Helical Nanographenes Containing an Azulene Unit: Synthesis, Crystal structures, and Properties
Angew. Chem., 132 (14), 5686-5691 (2020) DOI: [10.1002/ange.201914716](https://doi.org/10.1002/ange.201914716)
303. M. R. Ajayakumar, Y. Fu, F. Liu, H. Komber, V. Tkachova, S. Zhou, A. A. Popov, J. Liu, X. Feng
Tailoring Magnetic Feature in Zigzag-Edged Nanographenes via Controlled Diels-Alder Reactions
Chem. Eur. J., 26 (33), 7497-7503 (2020) DOI: [10.1002/chem.202001130](https://doi.org/10.1002/chem.202001130)
304. J. C. Rueda, H. Komber, F. Santillan, B. Voit
Synthesis and characterization of tough, self-crosslinked thermoresponsive DMAA hydrogels
Polymers, 12 (6), 1401 (2020) DOI: [10.3390/polym12061401](https://doi.org/10.3390/polym12061401)
305. A. Ghorai, S. Roy, S. Das, H. Komber, M. M. Ghangrekar, B. Voit, S. Banerjee
Chemically stable sulfonated polytriazoles containing trifluoromethyl and phosphine oxide moieties for proton exchange membranes
ACS Applied Polymer Materials, 2 (7), 2967-2979 (2020) DOI: [10.1021/acsapm.0c00443](https://doi.org/10.1021/acsapm.0c00443)
306. Y. Shin, H. Komber, D. Caiola, M. Casinelli, H. Sun, D. Stegerer, M. Schreiter, K. Horatz, F. Lissel, X. Jiao, C. R. McNeill, S. Cimo, C. Bertarelli, S. Fabiano, M. Caironi, M. Sommer
Synthesis and Aggregation Behavior of a Glycolated Naphthalene Diimide Bithiophene Copolymer for Application in Low-Level n-Doped Organic Thermoelectrics
Macromolecules, 53 (13), 5158-5168 (2020) DOI: [10.1021/acs.macromol.0c00657](https://doi.org/10.1021/acs.macromol.0c00657)

307. J. C. Rueda, C. Suárez, H. Komber, St. Zschoche, B. Voit
Synthesis and characterization of pH- and thermo-responsive hydrogels based on poly(2-cyclopropyl-2-oxazoline) macromonomer, sodium acrylate, and acrylamide
Polymer Bulletin, 77 (10), 5553-5565 (2020) DOI: [10.1007/s00289-019-03034-0](https://doi.org/10.1007/s00289-019-03034-0)
308. S. Roy, A. Ghorai, H. Komber, B. Voit, S. Banerjee
Synthesis of 2,2'-Hindered Pyridine Containing Semifluorinated Polytriazoles and Investigation for Low-Temperature Proton Exchange Membrane Application with Enhanced Oxidative Stability
Europ. Polymer J., 136, 109898 (2020) DOI: [10.1016/j.eurpolymj.2020.109898](https://doi.org/10.1016/j.eurpolymj.2020.109898)
309. J. Engelke, B. Tuten, R. Schweins, H. Komber, L. Barner, L. Plüschke, C. Barner-Kowollik, A. Lederer
An In-Depth Analysis Approach Enabling Precision Single Chain Nanoparticle Design
Polymer Chemistry, 11 (41), 6559-6578 (2020) DOI: [10.1039/D0PY01045F](https://doi.org/10.1039/D0PY01045F)
<https://chemrxiv.org/s/473372af1e5aa2f17388>
310. W. Niu, J. Ma, P. Soltani, W. Zheng, F. Liu, A. A. Popov, J. J. Weigand, H. Komber, E. Poliani, C. Casiraghi, J. Droste, M. R. Hansen, S. Osella, D. Beljonne, M. Bonn, H. I. Wang, X. Feng, J. Liu, Y. Mai
A Curved Graphene Nanoribbon with Multi-Edge Structure and High Intrinsic Charge Carrier Mobility
J. Am. Chem. Soc., 142 (43), 18293-18298 (2020) DOI: [10.1021/jacs.0c07013](https://doi.org/10.1021/jacs.0c07013)
311. F. Kempe, F. Riehle, H. Komber, M. Matsidik, M. Walter, M. Sommer
Semifluorinated, kinked polyarylenes via direct arylation polycondensation
Polymer Chemistry, 11 (43), 6928-6934 (2020) DOI: [10.1039/D0PY00973C](https://doi.org/10.1039/D0PY00973C)
- 2021**
312. K. Ditte, J. Perez, S. Chae, M. Hamsch, M. Al-Hussein, H. Komber, P. Formanek, S. Mannsfeld, A. Fery, A. Kiriy, F. Lissel
Ultra-soft and high mobility block-copolymers for skin-compatible electronics
Adv. Materials, 33 (4), 2005416 (2021) DOI: [10.1002/adma.202005416](https://doi.org/10.1002/adma.202005416)
313. S. Mishra, K. Xu, K. Eimre, H. Komber, J. Ma, C. A. Pignedoli, R. Fasel, X. Feng, P. Ruffieux

Synthesis and characterization of [7]triangulene

Nanoscale, 13, 1624-1628 (2021)

DOI: [10.1039/D0NR08181G](https://doi.org/10.1039/D0NR08181G)

314. Q. Wang, S. V. Lenjani, O. Dolynchuk, A. D. Scaccabarozzi, H. Komber, Y. Guo, F. Günther, S. Gemming, R. Magerle, M. Caironi, M. Sommer

Electron Mobility of Diketopyrrolopyrrole Copolymers is Robust against Homocoupling Defects

Chem. Mater. 33, 668-677 (2021)

DOI: [10.1021/acs.chemmater.0c03998](https://doi.org/10.1021/acs.chemmater.0c03998)

315. Y. Fei; Y. Fu; X. Bai, L. Du, Z. Li; H. Komber; K.-H. Low; S. Zhou; D. L. Phillips, X. Feng, J. Liu

Defective Nanographenes Containing Seven-Five-Seven (7-5-7) Membered Rings

J. Am. Chem. Soc., 143 (5), 2353–2360 (2021)

DOI: [10.1021/jacs.0c12116](https://doi.org/10.1021/jacs.0c12116)

316. W. Niu, Y. Fu, H. Komber, J. Ma, X. Feng, Y. Mai, J. Liu

Sulfur-doped nanographenes containing multiple subhelicenes

Organic Letters, 23 (6), 2069 – 2073 (2021)

DOI: [10.1021/acs.orglett.1c00232](https://doi.org/10.1021/acs.orglett.1c00232)

317. D. Adamczak, A. Perinot, H. Komber, A. Illy, S. Hultmark, B. Passarella, W. L. Tan, S. Hutsch, D. Becker-Koch, C. Rapley, A. D. Scaccabarozzi, M. Heeney, Y. Vaynzof, F. Ortmann, C. R. McNeill, C. Müller, M. Caironi, M. Sommer

Side chain-dependent properties of indacenodithiophene-benzothiadiazole copolymers made by direct arylation polycondensation

J. Mater. Chem. C, 9 (13), 4597-4606 (2021)

DOI: [10.1039/D1TC00043H](https://doi.org/10.1039/D1TC00043H)

318. Q. Wang, S. Böckmann, F. Günther, M. Streiter, M. Zerson, A. D. Scaccabarozzi, W. L. Tan, H. Komber, C. Deibel, R. Magerle, S. Gemming, C. R. McNeill, M. Caironi, M. R. Hansen, M. Sommer

Hydrogen bonds control single chain conformation, crystallinity and electron transport in isoelectronic diketopyrrolopyrrole copolymers

Chemistry of Materials, 33 (7), 2635 – 2645 (2021)

DOI: [10.1021/acs.chemmater.1c00478](https://doi.org/10.1021/acs.chemmater.1c00478)

319. M. R. Ajayakumar, J. Ma, A. Lucotti, K. S. Schellhammer, F. Lombardi, G. Serra, E. Dmitrieva, M. Rosenkranz, H. Komber, L. Bogani, J. Liu, F. Ortmann, M. Tommasini, X. Feng

Persistent peri-Heptacene: Synthesis and In-Situ Characterization

Angew. Chem. Int. Ed., 133 (25), 13972 – 13977 (2021) DOI: [10.1002/ange.202102757](https://doi.org/10.1002/ange.202102757)

320. F. Lombardi, J. Ma, H. Komber, J. Liu, W. K. Myers, X. Feng, L. Bogani

Synthetic Tuning the Quantum Properties of Open-shell Radicaloids

Chem, 7 (5), 1363 – 1378 (2021)

DOI: [10.1016/j.chempr.2021.03.024](https://doi.org/10.1016/j.chempr.2021.03.024)

321. A. Ghorai, S. Roy, S. Das, H. Komber, M. M. Ghangrekar, B. Voit, S. Banerjee

Sulfonated polytriazoles with phosphaphenanthrene unit via click polymerization: Fabrication of membranes and properties

ACS Applied Polymer Materials, 3 (8), 4127 – 4138 (2021)

DOI: [10.1021/acsapm.1c00600](https://doi.org/10.1021/acsapm.1c00600)

322. D. Pospiech, A. Korwitz, H. Komber, D. Jehnichen, K. Arnhold, H. Brünig, H. Scheibner, M. T. Müller, B. Voit

Polyesters with bio-based ferulic acid units: crosslinking paves the way to property consolidation

Polym. Chem., angenommen