

## List of publications (January 2016)

### 1988 - 1990

1. H. Komber, G. Großmann, A. Kretschmer  
 $^1\text{H}$ -,  $^{13}\text{C}$ - und  $^{31}\text{P}$ -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  $a_{\text{P}}$  in Dialkoxy-  
dithiophosphoryl-Radikalen mittels  $^{31}\text{P}$ - und  $^{13}\text{C}$ -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  
 $^{13}\text{C}$  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)

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5. H. Komber, G. Großmann, A. Petr, D. G. Pobedimskii  
 $^{31}\text{P}$ -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  $^{31}\text{P}$ ,  $^{13}\text{C}$  and  $^1\text{H}$  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  $^{15}\text{N}$  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 -  $\alpha$ -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  
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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  
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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)
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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  
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21. H. Komber  
The  $^1\text{H}$  and  $^{13}\text{C}$  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  
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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  
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5. Formation of a cyclic formamidine trimer by the condensation reaction of 2,6-diaminopyridine with triethyl orthoformate  
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25. H. Komber  
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26. T. Uhlich, G. Tomaschewski, H. Komber  
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The  $^1\text{H}$  and  $^{13}\text{C}$  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 -  $^{13}\text{C}$  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)
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 $^1\text{H}$ ,  $^{13}\text{C}$  and  $^{15}\text{N}$  nuclear magnetic resonance studies of polyamidines prepared from di(4,4'-aminophenyl) methane and different triethyl orthoesters - polymers with a prototropic tautomerism  
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34. J. Nagel, U. Oertel, P. Friedel, H. Komber, D. Möbius  
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Langmuir, 13 (17), 4693 - 4698 (1997)

35. H. Komber, C. Klinger, F. Böhme  
A  $^{15}\text{N}$  CPMAS study of  $\text{N}^1, \text{N}^2$ -diarylsubstituted polyformamide, polyacetamides and polybenzamide and model compounds  
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The use of melt polycondensation for synthesis of LC multiblock copolymers  
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37. K. Werner, H. Komber, S. Reinhardt, V. Steinert  
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38. H. Komber, M. Gruner, H. Malz  
 $^1\text{H}$  and  $^{13}\text{C}$  signal assignment for the 4-phenyl-1,2,3,4-tetrahydronaphthyl end-group of autopolymerized polystyrene  
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42. J. Luston, F. Böhme, H. Komber, G. Pompe  
Unsaturated 2-oxazoline modification of polyethylene containing carboxylic groups  
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a) Nachr. Chem. Tech. Lab. 47 (2), 203 -208 (1999)  
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Synthesis of functional polymers by atom transfer radical polymerization  
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Synthesis of bis-2-oxazolines containing inner unsaturation and their hydrolysis to phenylene bis-acrylic acids  
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