

Publications

Original Papers

1. Enzymatic Saccharification of Hemicellulose Obtained from Hydrothermally Pretreated Sugar Cane Bagasse and Beech Bark
Elisabeth Walch, Andreas Zemann, Franz Schinner, Günther Bonn, Ortwin Bobleter
Bioresource Technol. **39** (1992) 173-177.
 2. Separation of Cresols Using Co-Electroosmotic Capillary Electrophoresis
Sonja M. Masselter, Andreas J. Zemann, Ortwin Bobleter
Electrophoresis **14** (1993) 36-39.
 3. Analysis of Lignin Degradation Products by Capillary Electrophoresis
Sonja Masselter, Andreas Zemann, Ortwin Bobleter
Chromatographia **40** (1995) 51-57.
 4. Influence of Buffer Electrolyte pH on the Migration Behavior of Phenolic Compounds in Co-Electroosmotic Capillary Electrophoresis
Sonja M. Masselter, Andreas J. Zemann
J. Chromatogr. A **693** (1995) 359-365.
 5. Influence of Organic Solvents in Co-electroosmotic Capillary Electrophoresis of Phenols
Sonja M. Masselter, Andreas J. Zemann
Anal. Chem. **67** (1995) 1047-1053.
 6. Separation of Methylphenols by Capillary Electrophoresis with Mixed Organic Solvent Electrolyte Systems
Andreas J. Zemann
J. Cap. Elec. **2** (1995) 131-136.
 7. Hydrothermal Pretreatment of Wheat Straw for the Production of Pulp and Paper
Jarmila Kubikova, Andreas Zemann, Pavel Krkoška, Ortwin Bobleter
TAPPI J. **79/7** (1996) 163-169.
 8. Fractionation of Sugar Cane with Hot Compressed Liquid Water
Stephen G. Allen, Lance C. Kam, Andreas J. Zemann, Michael J. Antal, Jr.
Ind. Eng. Chem. Res. **35** (1996) 2709-2715.
 9. Determination of Inorganic Anions in Kraft Pulping Liquors by Capillary Electrophoresis
Sonja M. Masselter, Andreas J. Zemann, Günther K. Bonn,
HRC - J. High Resolut. Chromatogr. **19** (1996) 131-136.
 10. High-Speed Separation of Carboxylic Acids by Co-Electroosmotic Capillary Electrophoresis with Direct and Indirect UV Detection
Dietmar Volgger, Andreas J. Zemann, Günther K. Bonn, Michael J. Antal, Jr.
J. Chromatogr. A **758** (1997) 263-276.
 11. Fast Separation of Underivatized Carbohydrates by Co-electroosmotic Capillary Electrophoresis
Andreas Zemann, Nguyen Duc Tuan, Günther Bonn
Electrophoresis **18** (1997) 1142-1147.
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12. Separation of Priority Pollutant Phenols with Co-electroosmotic Capillary Electrophoresis
Andreas Zemann, Dietmar Volgger
Anal. Chem. **69** (1997) 3243-3250.
 13. Separation of Derivatized Carbohydrates by Co-electroosmotic Capillary Electrophoresis
Đuc Tuan Nguyen, Helmut Lerch, Andreas Zemann, Günther Bonn
Chromatographia **46** (1997) 113-121.
 14. Sub-Minute Separations of Organic and Inorganic Anions with Co-Electroosmotic Capillary Electrophoresis
Andreas Zemann
J. Chromatogr. A **787** (1997) 243-251.
 15. Determination of Phenols, Inorganic Anions, and Carboxylic Acids in Kraft Black Liquors by Capillary Electrophoresis
Dietmar Volgger, Andreas Zemann, Günther Bonn
HRC - J. High Resolut. Chromatogr., **21** (1998) 3-10.
 16. Contactless Conductivity Detection for Capillary Electrophoresis
Andreas J. Zemann, Erhard Schnell, Dietmar Volgger and Günther K. Bonn
Anal. Chem. **70** (1998) 563-567.
 17. Capillary Electrophoresis and Contactless Conductivity Detection of Ions in Narrow Inner Diameter Capillaries
Karl Mayrhofer, Andreas J. Zemann, Erhard Schnell, Günther K. Bonn
Anal. Chem. **71** (1999) 3828-3833.
 18. Aquasolv Pretreatment of Plant Materials for the Production of Cellulose and Paper
Jarmila Kubikova, Ping Lu, Andreas Zemann, Pavel Krkoska, Ortwin Bobleter
Cell. Chem. Technol. **34** (2000) 151-162.
 19. Anion-exchange Capillary Electrochromatography with Contactless Conductivity Detection
Emily F. Hilder, Andreas J. Zemann, Miroslav Macka Paul R. Haddad
Electrophoresis **22** (2001) 1273-1281.
 20. Capillary Electrophoretic Separation of Protease Inhibitors Used in HIV Therapy
Wolfgang Gutleben, Nguyen Đuc Tuan, Heribert Stoiber, Manfred P. Dierich, Mario Sarcletti, Andreas Zemann
J. Chromatogr. A **922** (2001) 313-320.
 21. Simultaneous Separation of Inorganic Anions and Cations Using Capillary Electrophoresis with a Movable Contactless Conductivity Detector
Verena Unterholzner, Miroslav Macka, Paul R. Haddad, Andreas Zemann
Analyst **127** (2002) 715-718.
 22. Simultaneous Separation of 11 Protease and Reverse Transcriptase Inhibitors for Human Immuno Deficiency Virus Therapy by Co-Electroosmotic Capillary Electrophoresis
Wolfgang Gutleben, Karin Scherer, Nguyen Đuc Tuan, Heribert Stoiber, Manfred P. Dierich, Andreas Zemann
J. Chromatogr. A **982** (2002) 153-160.
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23. Simultaneous Separation of 15 Approved Protease and Reverse Transcriptase Inhibitors for HIV Therapy by Capillary Electrophoresis
Nguyen Duc Tuan, Wolfgang Gutleben, Karin Scherer, Heribert Stoiber, Barbara Falkensammer, Manfred P. Dierich, Andreas Zemann
Electrophoresis **24** (2003) 662-670.
24. Miniaturized Movable Contactless Conductivity Detection Cell for Capillary Electrophoresis
Miroslav Macka, Joseph Hutchinson, Andreas Zemann, Zhang Shusheng, Paul R. Haddad,
Electrophoresis **24** (2003) 2144-2149.
25. Drug monitoring and viral response to lopinavir/ritonavir or saquinavir/ritonavir containing regimens in individuals infected with the human immunodeficiency virus type 1
Barbara Falkensammer, Wilfried Fasser, Karin Scherer, Andreas Zemann, Walter Parson, Hanno Ulmer, Manfred P. Dierich, Heribert Stoiber
International Journal of Immunopathology and Pharmacology **18** (2005) 145-154.

Invited Papers

1. Cellulose
Andreas Zemann, Günther Bonn
Encyclopedia of Analytical Science, Academic Press, London, **1995**, p. 518-525.
(ISBN 0-12-226700-1).
2. Conductivity Detection in Capillary Electrophoresis
Andreas Zemann
Trends Anal. Chem. **20** (2001) 346-354.
3. Capacitively Coupled Contactless Conductivity Detection in Capillary Electrophoresis
Andreas Zemann
Electrophoresis **24** (2003) 2125-2137.
4. Determination of Small Ions with Capillary Electrophoresis and Contactless Conductivity Detection
Andreas Zemann, Irene Rohregger, Roland Zitturi
Methods Mol. Biol. **384** (2008), 3-19.

Patent

1. Detektor zur Messung der elektrolytischen Leitfähigkeit
Erhard Schnell, Andreas J. Zemann, Dietmar Volgger and Günther K. Bonn
Austrian Patent A 1016/97 (29. 12. **1999**).

Other Papers

1. Hydrothermal Pretreatment of Bagasse and Wheat Straw
Ortwin Bobleter, Ruth Vidotti, Andreas Zemann, Werner Prutsch
in: G. Grassi, G. Gosse, G. dos Santos (eds), Biomass for Energy and Industry, Vol. 2: Conversion and Utilization of Biomass, Elsevier Appl. Sci., London-New York, **1990**, p. 2.31-2.35.
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2. Hydrothermolysis - A Pretreatment Process for Pulp Production
Andreas Zemann, Ortwin Bobleter, Werner Prutsch
in: J.F. Kennedy, G.O. Philips, P.A. Williams (eds.), *Lignocellulosics: Science, Technology, Development and Use*, Ellis Horwood Series in Polymer Science and Technology, New York-London, **1992**, p. 213. (ISBN 0-13-544511-6).
 3. Papermaking Properties of Hydrothermally Pretreated Wood and Annual Plants
Andreas Zemann, Ortwin Bobleter, Pavel Krkoška
in: J.F. Kennedy, G.O. Philips, P.A. Williams (eds.), *Cellulosics: Pulp, Fibre and Environmental Aspects*, Ellis Horwood Series in Polymer Science and Technology, New York, **1992**, p. 63-68. (ISBN 0-13-053059 X).
 4. Analytical Determination of Biomass Degradation Products by Capillary Electrophoresis
Andreas Zemann, Ortwin Bobleter
in A.V. Bridgwater (ed.), *Advances in Thermochemical Biomass Conversion*, Vol. 2, Blackie Academic & Professional, London, **1993**, p. 953-965. (ISBN 0-7514-0171-4).
 5. Hydrothermal Pretreatment of Rice Straw
Wisuth Liamsakul, Andreas Zemann, Ortwin Bobleter
in A.V. Bridgwater (ed.), *Advances in Thermochemical Biomass Conversion*, Vol. 2, Blackie Academic & Professional, London, **1993**, p. 1545-1557. (ISBN 0-7514-0171-4).
 6. Co-elektroosmotische Kapillarelektrophorese organischer und anorganischer Anionen mit organisch-wässrigen Elektrolytsystemen
Andreas Zemann
in H. Engelhardt, F. Lottspeich, H.-J. Schneider (eds), *Würzburger Kolloquium Fortschrittsberichte '96*, Bertsch Verlag, Straubing, 1996, p. 59-66.
 7. Ionomics in Environomics
Andreas Zemann
GIT – Laborfachzeitschrift **46** (2002) 1077.
 8. Leitfähigkeitsdetektion für Kapillarelektrophorese und -chromatographie
Andreas Zemann
GIT – Laborfachzeitschrift **47** (2003) 22-24.
 9. Conductivity Detection with Capillary Electrophoresis and Capillary Electrochromatography
Andreas Zemann
GIT – Laboratory Journal Europe **7** (2003) 60-62.
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