

CURRICULUM VITAE

Name Dr. Zöfre Bayram-Hahn
Date of birth 07.12.1974
Place of birth Wiesbaden
Family status married

Education

1981 – 1986 Blücherschule – Grundschule, Wiesbaden
1986 – 1988 Diesterwegschule – Förderstufe, Wiesbaden
1988 – 1992 Werner-von-Siemens – Realschule, Wiesbaden
1992 – 1995 Gustav-Stresemann-Wirtschaftsgymnasium, Mainz
Degree: Allgemeine Hochschulreife

University

1995 – 2002 Study of chemistry at Johannes Gutenberg-University, Mainz
09/2002 Degree: Diplomchemiker, Topic of the Diploma work:
Poly(methacrylat)-beschichtete partikuläre und monolithische Kieselgele mit abgestuftem und kontrolliertem Denaturierungspotential für Proteine in der Reversed Phase-Chromatographie (RP-HPLC)
06/2007 PhD work at Institute of Inorganic Chemistry and Analytical Chemistry, Johannes Gutenberg-University, Mainz,
Supervisor: Prof. K.K. Unger
Degree: Dr.rer.nat. Topic of the PhD-Thesis:
Inverse Size Exclusion Chromatography (ISEC) as Pore Structural Characterization Method of Porous Media in Packed Columns and as Important Tool for the Development Process of Bonded Poly(methacrylate) Coated Silicas for the Reversed Phase HPLC of Proteins and Peptides

Professional Career

03/2007 general manager: ZetA Partikelanalytik GmbH

Skills

Languages German mother tongue
Turkish mother tongue
English fluent (spoken and written)
French intermediate

Computers Good knowledge of both Microsoft and Macintosh Computers with Microsoft Office Package, Adobe Photoshop and Acrobat, Origin, ChemOffice, ISISdraw, miscellaneous software of chromatographic instruments or other measuring instruments (Linseis-TG/DTA, Quantachrome-Nitrogen sorption, Philips-Scanning Electron Micrograph, Seiffert-XRD)

Publications

Patent

WO 2004 039 495 A1, EP 1562700 A1, US 2006 0099 402 A1, AU 2003 301 743 A1

Z. Bayram-Hahn¹, K.K. Unger¹, R. Hendricks², D. Lubda²

¹Johannes Gutenberg University, Mainz; ²Merck KGaA, Darmstadt

Mit organischen Polymeren beschichtete anorganische monolithische Formkörper

Scientific Publications

J. Sep. Sci., 2007, 30, 3089-3103

Z. Bayram-Hahn, B. A. Grimes, A. M. Lind, R. Skudas, K.K. Unger, A. Galarneau, J. Iapichella, F. Fajula

Pore structural characteristics, size exclusion properties and column performance of two mesoporous silicas and their pseudomorphically transformed MCM-41-type derivatives

Microporous and Mesoporous Materials, 2007, 102, 111-121

J. Iapichella, J.M. Meneses, I. Beurroies, R. Denoyel, Z. Bayram-Hahn, K. Unger, A. Galarneau

Characterization of Mesoporous Silica and its Pseudomorphically Transformed Derivative by Gas and Liquid adsorption

J. Sep. Sci., 2006, 29, 844-855

A. Galarneau, J. Iapichella, D. Brunel, F. Fajula, Z. Bayram-Hahn, K. Unger, G. Puy, C. Demesmay, J.-L. Rocca

Spherical ordered mesoporous silicas and silica monoliths as stationary phases for liquid chromatography

Chem. Mater., 2005, 17, 601-607

B. Lefèvre, A. Galarneau, J. Iapichella, C. Petitto, F. Di Renzo, F. Fajula, Z. Bayram-Hahn, R. Skudas, K. Unger

Synthesis of Large-Pore Mesostructured Micelle-Templated Silicas as Discrete Spheres

Oral Presentation

XIV. Porotec Workshop, 18.11.08-19.11.08, Bad Soden, Germany

Z. Bayram-Hahn

The Pore Connectivity being the Key Parameter Controlling the Mass Transfer Kinetics in Liquid Phase Separation Process: A Study on Highly Ordered and Amorphous Silicas

4th International TRI/Princeton Workshop on Characterization of Porous Materials: from Angstroms to Millimeters, 21.06.06-23.06.06, Princeton/New Jersey, USA

Z. Bayram-Hahn, B.A. Grimes, M. Schulte, K.K. Unger

Comparison of Native and Polymer Coated Silicas by Means of Nitrogen Sorption and Inverse Size Exclusion Chromatography

25th International Symposium on the Separation of Proteins, Peptides and Polynucleotides (ISPPP 2005), 06.11.05-09.11.05, St. Pete Beach/Florida, USA

Z. Bayram-Hahn, B.A. Grimes, M. Schulte, K.K. Unger

Polymer-Coated Silica-Supports for Bioseparations with Optimized Hydrophobicity

7th International Symposium on the Characterisation of Porous Solids (COPS VII), 25.05.05-28.05.05, Aix-en-Provence, France

Z. Bayram-Hahn, B.A. Grimes, M. Schulte, K.K. Unger

Comparison of Native and Polymer Coated Silicas by Means of Nitrogen Sorption and Inverse Size Exclusion Chromatography

3. Doktorantenseminar, 17.04.05-19.04.05, Prüm/Eifel, Germany

Z. Bayram-Hahn, K.K. Unger

Denaturation Potential of Chromatographic Media in dependency of their hydrophobicity

17. Deutsche Zeolithtagung, 02.03.05-04.03.05, Gießen, Germany

A. Hahn, Z. Bayram-Hahn, K.K. Unger, S. Kallus, J. Ramsay, H. Amenitsch

Online-Studies on the Formation of Silicalite-I Monitored via Small Angle Scattering Techniques

XII. Porotec Workshop, 16.11.04-17.11.04, Bad Soden, Germany

K.K. Unger, B. Grimes, Z. Bayram-Hahn, F. Fajula, A. Galarneau

The Pore Connectivity being the Key Parameter Controlling the Mass Transfer Kinetics in Liquid Phase Separation Process: A Study on Highly Ordered and Amorphous Silicas

International Symposium on Preparative and Industrial Chromatography and Allied Techniques (SPICA 2004), 17.10.04-20.10.04, Aachen, Germany

K.K. Unger, B. Grimes, Z. Bayram-Hahn, F. Fajula, A. Galarneau

The Pore Connectivity being the Key Parameter Controlling the Mass Transfer Kinetics in Liquid Phase Separation Process: A Study on Highly Ordered and Amorphous Silicas

28th International Symposium on High Performance Liquid Separation and Related Techniques (HPLC 2004), 12.06.04-18.06.04, Philadelphia, USA

Z. Bayram-Hahn, B.A. Grimes, M. Schulte, K.K. Unger

Investigations on Hydrophobic/Hydrophilic Polymer-Coated Silica-Supports for Protein Separations

Joint seminar between Justus-Liebig University Giessen and Johannes Gutenberg University Mainz, 27.05.04, Merck KGaA, Germany

Z. Bayram-Hahn, K.K. Unger

Chromatographic testing and evaluation of HPLC columns

Technical Meeting-Inorgpore Project, 14.02.04, Östrich-Winkel/Rheingau, Germany

Z. Bayram-Hahn, K.K. Unger

Comparison of Chromatographic Performance between Native and Pseudomorphically Treated Highly Porous Silica Materials

Workshop on Isotherms, 20.10.-21.10.03, Merck KGaA, Germany

Z. Bayram-Hahn, K.K. Unger

Data Processing

Workshop, 30.05.03, Illstorp, Sweden

Z. Bayram-Hahn, K.K. Unger

Structured Polymer Coatings for Biopolymer Separations

13. Doktoranten-Seminar in Chromatographie, 12.01.-14.01.03, Kloster Banz, Germany

Z. Bayram-Hahn, K.K. Unger

Poly(methacrylat)-beschichtete Trägermaterialien für Proteintrennungen in der Reversed Phase-Chromatographie (RP-HPLC)

Workshop, 13.06.02, Illstorp, Sweden

Z. Bayram-Hahn, K.K. Unger

Synthesis and characterization of biocompatible polymer layers on silica for separation of proteins

Poster Presentation

29th International Symposium on High Performance Liquid Separation and Related Techniques (HPLC 2005), 26.06.05-30.06.05, Stockholm, Sweden

Z. Bayram-Hahn, B.A. Grimes, M. Schulte, K.K. Unger

Optimization of Polymer-Coated Silica-Supports for Bioseparations – selected as TOP 15 Poster

7th International Symposium on the Characterisation of Porous Solids (COPS VII), 25.05.05-28.05.05, Aix-en-Provence, France

B.A. Grimes, Z. Bayram-Hahn, V. Kudirkaite, R. Skudas, D. Lubda, K.K. Unger

Characterization of porous silica chromatographic particles and monoliths with nitrogen sorption and inverse size exclusion chromatography based on pore network modeling theory: influence of the pore size distribution and pore connectivity on chromatographic performance

7th International Symposium on the Characterisation of Porous Solids (COPS VII), 25.05.05-28.05.05, Aix-en-Provence, France

J. Iapichella, A. Galarneau, F. Fajula, Z. Bayram-Hahn, K. Unger, R. Denoyel

Characterization by gas and liquid adsorption of large-pore Micelle-Templated Silicas obtained by pseudomorphic transformation

27th International Symposium on High Performance Liquid Separation and Related Techniques (HPLC 2003), 15.06.03-19.06.03, Nice, France

Z. Bayram-Hahn, D. Lubda, K.K. Unger

Poly(Methacrylate) Coated Reversed Phase-Packings in HPLC for Bioseparations

22th International Symposium on the Separation of Proteins, Peptides and Polynucleotides (ISPPP 2002), 10.11.02-13.11.02, Heidelberg, Germany

Z. Bayram-Hahn, D. Lubda, K.K. Unger

Poly(Methacrylate) Coated Reversed Phase-Packings in HPLC for Bioseparations

13th International Zeolite Conference, 08.07.-13.07.2001, Montpellier, France

A. Hahn, Z. Bayram, K.K. Unger

Low Temperature Synthesis of Kinetic Studies

13. Deutsche Zeolith Tagung, 07.03.-09.03.2001, Erlangen, Germany

C. du Fresne von Hohenesche, Z. Bayram, K.K. Unger

Chemically Modified MCM-41 Related Silica Particles – Characterisation and Potential Applications