

Joerg Neuefeind

Experience

- **Oak Ridge National Laboratory**, Spallation Neutron Source 2004-
Designed, commissioned and developed the user program of the
Nanoscale Materials diffractometer.
- **Argonne National Laboratory** Chemistry Division 2001-2004
Developed methods to characterize the speciation of actinide solutions
with pair distribution function analysis
- **Deutsches Elektronensynchrotron HASYLAB** 1994-2001
Designed, commissioned and developed the user program of hard X-
rays for pair distribution analysis at the BW5 beamline at DORIS-III
- **RWTH Aachen** Physical Chemistry 1990-1994
Started hard X-ray synchrotron radiation work at DORIS-III and
studied the liquid structure.

Education

- **Habilitation** Physical Chemistry, Universität Bremen, 2001
- **PhD** Physical Chemistry, RWTH Aachen, 1994
- **Diploma** Chemie, RWTH Aachen, 1990

Visiting positions

- ◆ **Risø National Laboratory**, Roskilde 2009
- ◆ **Argonne National Laboratory**, Chicago 2000
- ◆ **Consejo Superior de Investigaciones Cientificas** Madrid 1992
- ◆ **Institut Laue-Langevin** Grenoble 1991
- ◆ **Université Libre de Liège** Lüttich 1988-89

Publications

- 201 paper with 6529 citations
- 14 paper with 100+ citations
- h-factor 41
- 24 “DOE high impact” paper

Selected Publications

Oak Ridge National Laboratory (2004- now)

- J. Neuefeind, A. L. Skov, J. E. Daniels, V. Honkimaki, B. Jakobsen, J. Oddershede, H. F. Poulsen, "A multiple length scale description of the mechanism of elastomer stretching." RSC Advances (2017) 6, 95910
- J. Shamblin, M. Feygenson, J. Neuefeind, C. L. Tracy, F. Zhang, S. Finkeldei, D. Bosbach, H. D. Zhou, R. C. Ewing, M. Lang, "Probing disorder in isometric pyrochlore and related complex oxides." Nature Materials (2016) 15, 507
- L. B. Skinner, C. J. Benmore, J. K. Weber, J. Du, J. Neuefeind, S. Tumber, J. B. Parise, "Low Cation Coordination in Oxide Melts." Physical Review Letters (2014) 112, 157801
- J. Neuefeind, M. Feygenson, J. Carruth, R. Hoffmann, K. K. Chipley, "The Nanoscale Ordered Materials Diffractometer at the Spallation Neutron Source", Nucl. Instr. Meth. B 287 (2012) 68

Argonne National Laboratory (2001-2004)

- J. Neuefeind, L. Soderholm, S. Skanthakumar, "Experimental coordination environment of uranyl (VI) in aqueous solution", J. Phys Chem. A 108 (2004) 2733
- M. P. Jensen, J. Neuefeind, J. V. Beitz, S. Skanthakumar, L. Soderholm, "Mechanism of metal ion transfer into room-temperature ionic liquids: The role of anion exchange", J. Am. Chem. Soc. 125 (2003) 15466

Hamburger Synchrotronstrahlungslabor (1994-2001)

- B. Tomberli, C. J. Benmore, P. A. Egelstaff, J. Neuefeind, V. Honkimäki, "Isotopic quantum effects in water structure measured with high energy photon diffraction", J. Phys. Cond. Mat. 8 (2000) 2597
- J. Neuefeind., K. D. Liss, "Bond angle distribution of amorphous germania and silica", Ber. Bunsengesellschaft 100 (1996) 1341

RWTH Aachen (1990-1994)

- J. Neuefeind, P. Chieux, M. D. Zeidler, "Geometry and intermolecular structure of N-Methylformamide in the liquid phase as measured by neutron scattering", Molec. Phys. 76 (1992) 143