

Veröffentlichungen und Vorträge der Mitarbeiter der berichterstattenden Arbeitsgruppen

Veröffentlichungen

N.L. Banik, R.A. Buda, S. Bürger, J.V. Kratz, B. Kuczewski, N. Trautmann
Speciation of the Oxidation States of Np and Pu in Aqueous Solutions by CE-ICP-MS and CE-RIMS

in: Recent Advances in Actinide Science (I. May, R. Alvares, N. Bryan, eds.), The Royal Society of Chemistry, Cambridge 53 (2006)

N.L. Banik, R.A. Buda, S. Bürger, J.V. Kratz, N. Trautmann

Speciation of Plutonium in Aqueous Systems
Proc. of the International Conference "Plutonium Futures – The Science 2006", Asilomar, USA, July 9-13, 2006, J. Alloys & Compounds, accepted

A. Bartoli, N. Belcari, D. Stark, S. Höhnemann, M. Piel, M. Jennewein, U. Schmitt, J. Tillmanns, O. Thews, Ch. Hiemke, F. Roesch, A. Del Guerra
Preliminary assessment of the imaging capability of the YAP-(S)PET small animal scanner in neuroscience

Nucl. Instr. Methods A569, 488 (2006)

U. Baumgärtner, H.-G. Buchholz, A. Bellosevich, W. Magerl, T. Siessmeier, R. Rolke, S. Höhnemann, M. Piel, F. Rösch, H.-J. Wester, G. Henriksen, P. Stoeter, P. Bartenstein, R.-D. Treede, M. Schreckenberger

High opiate receptor binding potential in the human lateral pain system.

Neuroimage 30, 692 (2006)

B. Burgkhardt, P. Bilski, M. Budzanowski, R. Böttger, K. Eberhardt, G. Hampel, P. Olko, A. Straubing

Application of different TL detectors for the photon dosimetry in mixed radiation fields used for BNCT

Radiat. Prot. Dosimetry 120, 83 (2006)

St. Bürger, R.A. Buda, H. Geckeis, G. Huber, J.V. Kratz, P. Kunz, C. Lierse von Gostomski, G. Passler, A. Remmert, N. Trautmann

Isotope Selective Ultratrace Analysis of Plutonium for Environmental Studies by Laser Mass Spectrometry

in: Radioactivity in the Environment, Volume 8, (P.P. Povinec, J.A. Sanchez-Cabeza, eds.), Elsevier Ltd, 581 (2006)

J. Dvorak, W. Brüchle, M. Chelnokov, R. Dressler, Ch.E. Düllmann, K. Eberhardt, V. Gorshkov, E. Jäger, R. Krücken, A. Kuznetsov, Y. Nagame, F. Nebel, Z. Novackova, Z. Qin, M. Schädel, B. Schausten, E. Schimpf, A. Semchenkov, P. Thörle, A. Türler, M. Wegrzecki, B. Wierczinski, A. Yakushev, A. Yerebin

Doubly Magic Nucleus Hs-270

Phys. Rev. Lett. 97, 242501 (2006)

R. Eichler, W. Brüchle, R. Buda, S. Bürger, R. Dressler, Ch. E. Düllmann, J. Dvorak, K. Eberhardt, B. Eichler, C. M. Folden III, H. W. Gäggeler, K. E. Gregorich, F. Haenssler, H. Hummrich, E. Jäger, J. V. Kratz, B. Kuczewski, D. Liebe, D. Nayak, H. Nitsche, D. Piguet, Z. Qin, U. Rieth, M. Schädel, B. Schausten, E. Schimpf, A. Semchenkov, S. Soverna, R. Sudowe, N. Trautmann, P. Thörle, A. Türler, B. Wierczinski, N. Wiehl, P.A. Wilk, G. Wirth, A. B. Yakushev, A. von Zweidorf

Attempts to chemically investigate element 112

Radiochim. Acta 94, 181 (2006)

N. Erdmann, F.M. Engelberger, J.V. Kratz, N. Trautmann, G. Passler, M. Betti, P. Lievens, R.E. Silverans, E. Vandeweert

Resonance Ionisation Mass Spectrometry for Element- and Isotope-Selective Trace Analysis of Actinides in Environmental Micro-Particles

in: Recent Advances in Actinide Science (I. May, R. Alvares, N. Bryan, eds.), The Royal Society of Chemistry, Cambridge 122 (2006)

G. Gründer, C. Landvogt, I. Vernaleken, H.-G. Buchholz, J. Ondracek, T. Siessmeier, S. Härter, M. Schreckenberger, P. Stoeter, C. Hiemke, F. Rösch, D.F. Wong, P. Bartenstein

The striatal and extrastriatal D2/D3 receptor-binding profile of clozapine in patients with schizophrenia.

Neuropsychopharmacology 31(5), 1027 (2006)

G. Hampel, K. Eberhardt, N. Trautmann

The Research Reactor TRIGA Mainz

atw 51, 328 (2006)

G. Herrmann

Rezension von L. Meitner: Erinnerungen an Otto Hahn (Hsg. D. Hahn), Stuttgart 2005

Nachrichten aus der Chemie 54, 1238 (2006)

- M. Jennewein, A. Hermanne, R.P. Mason, P.E. Thorpe, F. Rösch,
A new method for the labelling of proteins with radioactive arsenic isotopes
Nucl. Instr. Methods A **569**, 512 (2006)
- T. Kienast, T. Siessmeier, J. Wrase, D.F. Braus, M.N. Smolka, H.-G. Buchholz, M. Schreckenberger, F. Rösch, P. Cumming, K. Mann, P. Bartenstein, A. Heinz.
Ratio of dopamine synthesis capacity to D2 receptor availability correlates with central processing of affective stimuli
Brain, 2006, submitted
- K. Kirschbaum, M.J. Müller, J. Malevani, A. Mobascher, C. Burchardt, M. Piel, C. Hiemke
Serum levels of aripiprazole and dehydroaripiprazole, clinical response and side effects
World J. Biol. Psych., 2007, in press
- J. Maul, I. Strachnov, K. Eberhardt, S. Karpuk, G. Passler, N. Trautmann, K. Wendt, G. Huber
Spatially resolved ultra-trace analysis of elements combining resonance ionization with a MALDI-TOF spectrometer
Anal. Bioanal. Chem. **386**, 109 (2006)
- W. Nörtershäuser, P. Campbell, and the LaSpec collaboration
LaSpec at FAIR'S Low Energy Beamline: A New Perspective for Laser Spectroscopy of Radioactive Nuclei
Hyperfine Interactions **171**, 149 (2006)
- A.F. Novgorodov, N.A. Korolev, F. Roesch
A combined ^{148}Gd / ^{244}Cm source for energy calibration of α -spectrometers
Appl. Radiat. Isot. **64**, 540 (2006)
- C. Novotny, G. Huber, S. Karpuk, W. Nörtershäuser, G. Saathoff, S. Reinhardt, A. Wolf, D. Schwalm, G. Gwinner, G. Ewald, C. Geppert, H.-J. Kluge, T. Kühl, M. Steck, T.W. Hänsch, R. Holzwarth, T. Udem, B. Bernhard
Hyperfine Interactions **171**, 57 (2006)
- T. Odenwald, K. Nakagawa, Ch. Hadstein, F. Roesch, P. Gohlke, F. Schaefer, E. Ritz, C.P. Schmitt
Acute blood pressure effects and chronic hypotensive action of calcimimetics in uremic rats.
J. Am. Soc. Nephrology **17**(3), 655 (2006)
- T. Reich, S. Amayri, J. Drebert, S. Boulyga
EXAFS study of uranium(VI) sorption on kaolinite
NEA Proc. (Actinide-XAS-2004), 61 (2006)
- F. Rösch, G. Gründer, M. Schreckenberger, G. Dannhardt
Radiopharmazeutische Entwicklungen für die Molekulare Bildgebung von Prozessen im Zentralen Nervensystem.
Healthy Academy 01/2006, pp. 38-53. in: *Molecular Imaging. Innovationen und Visionen in der medizinischen Bildgebung*. Herausgeber: W. Niederlag, H U Lemke, W Semmler, C Bremer
- F. Rösch, K.P. Zhernosekov, D.V. Filosofov, M. Jahn, M. Jennewein
The status and the potential of new radionuclide generators providing positron emitters to synthesise new targeting vectors for PET
IAEA-CN-130/068, 2006
- R. Sánchez, W. Nörtershäuser, G. Ewald, D. Albers, J. Behr, P. Bricault, B.A. Bushaw, A. Dax, J. Dilling, M. Dombisky, G.W.F. Drake, S. Götte, R. Kirchner, H.-J. Kluge, Th. Kühl, J. Lassen, C.D.P. Levy, M.R. Pearson, E.J. Prime, V. Ryjkov, A. Wojtaszek, Z.-C. Yan, and C. Zimmermann
Nuclear Charge Radii of $^{9,11}\text{Li}$: The Influence of Halo Neutrons
Physical Review Letters **96**, 033002 (2006)
- R. Sánchez, W. Nörtershäuser, A. Dax, G. Ewald, S. Götte, R. Kirchner, H.-J. Kluge, Th. Kühl, A. Wojtaszek, B.A. Bushaw, G.W.F. Drake, Z.-C. Yan, C. Zimmermann D. Albers, J. Behr, P. Bricault, J. Dilling, M. Dombisky, J. Lassen, C.D.P. Levy, M.R. Pearson, E.J. Prime, and V. Ryjkov
Nuclear Charge Radius of ^{11}Li
Hyperfine Interactions **171**, 181 (2006)
- K. Schmeide, T. Reich, S. Sachs, G. Bernhard
Plutonium(III) complexation by humic substances studied by X-ray absorption fine structure spectroscopy
Inorg. Chim. Acta **359**, 237 (2006)
- T. Siessmeier, T. Kienast, J. Wrase, J.L. Larsen, D.F. Braus, M.N. Smolka, H.-G. Buchholz, M. Schreckenberger, F. Rösch, P. Cumming, K. Mann, P. Bartenstein, A. Heinz
Net influx of plasma 6-[^{18}F]fluoro-L-DOPA (FDOPA) to the ventral striatum correlates with prefrontal processing of affective stimuli.
Eur. J. Neurosci. **24**(1), 305 (2006)
- T. Siessmeier, T. Kienast, J. Wrase, J.L. Larsen, D.F. Braus, M.N. Smolka, H.G. Buchholz, M. Schreckenberger, F. Rösch, P. Cumming, K. Mann, P. Bartenstein, A. Heinz
Antiamphiphysin-positive stiff-person syndrome associated with small cell lung cancer.
Mov. Disord. **21**, 1285 (2006)

E.N. Tsyganov, J. Anderson, G. Arbique, A. Constantinescu, M. Jennewein, P.V. Kulkarni, R.P. Mason, R.W. McColl, O.K. Öz, R.W. Parkey, E. Richer, F. Rösch, S.Y. Seliounine, N.V. Slavine, S.C. Srivastava, P.E. Thorpe, A.I. Zinchenko, P.P. Antich

UTSW small animal positron emission imager.
IEEE Transactions on Nuclear Science 53, 2591 (2006)

H. Uusijärvi, P. Bernhardt, H. Mäcke, F. Rösch, E. Forssell-Aronsson

Electron and positron-emitting radiolanthanides for therapy – A dosimetric and production evaluation

J. Nucl. Med. 47, 807 (2006)

I. Vernaleken, C. Weibrich, T. Siessmeier, H.-G. Buchholz, F. Rösch, A. Heinz, P. Cumming, P. Stoeter, P. Bartenstein, G. Gründer

Asymmetry in dopamine D2/3 receptors of NC is lost with age.

Neuroimage (2006), submitted

I. Vernaleken, T. Siessmeier, H.-G. Buchholz, S. Härtter, C. Hiemke, P. Stoeter, F. Rösch, P. Bartenstein, G. Gründer

High striatal occupancy of D2-like dopamine receptors by amisulpride in the brain of patients with schizophrenia.

Int. J. Neuropsychopharmacology 7, 421 (2006)

B. Wängler, C. Beck, U. Wagner-Utermann, E. Schirmacher, C. Bauer, F. Rösch, R. Schirmacher, M. Eisenhut

Application of tris-allyl-DOTA in the preparation of DOTA-peptide conjugates.

Tetrahedron Lett. 47, 5985 (2006)

K.J. Werhahn, Ch. Landvogt, S. Klimpe, H.-G. Buchholz, W. Müller-Forell, I. Yakushev, M. Piel, F. Rösch, M. Schreckenberger, P. Bartenstein

Decreased temporal dopamine D2/D3 receptor binding in temporal lobe epilepsy: an ¹⁸F-Fallypride PET study.

Epilepsia, 47(8), 1392 (2006)

E.F. Worden, J. Blaise, M. Fred, N. Trautmann, J.-F. Wyart

Spectra and Electronic Structures of Free Actinide Atoms and Ions

in: The Chemistry of the Actinide and Transactinide Elements, 3rd Edition (L.R. Morss, N. M. Edelstein, J. Fuger, J.J. Katz, eds.), Springer, Dordrecht, 2006, 1836-1892

M. Žáková, Ch. Geppert, A. Herbert, H.-J. Kluge, R. Sánchez, F. Schmidt-Kaler, D. Tiedemann, C. Zimmermann, W. Nörtershäuser

Towards a nuclear charge radius determination for beryllium isotopes

Hyperfine Interactions 171, 189 (2006)