

## Veröffentlichungen und Vorträge der Mitarbeiter der berichterstattenden Arbeitsgruppen

### Veröffentlichungen

- S. Amayri, T. Arnold, T. Reich, H. Foerstendorf, G. Geipel, G. Bernhard, A. Massanek  
Spectroscopic characterization of the uranium carbonate andersonite  $\text{Na}_2\text{Ca}[\text{UO}_2(\text{CO}_3)_3]\cdot 6\text{H}_2\text{O}$   
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- S. Amayri, T. Arnold, H. Foerstendorf, G. Geipel, G. Bernhard  
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Beta-Delayed Neutron Measurements of r-Process Isotopes in the  $^{132}\text{Sn}$  Region  
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Evidence for the formation of sodium hassate(VIII)  
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## Vorträge<sup>+</sup>

Seattle, USA: First Argonne/MSU/INT/RIA Workshop The r-Process: The Astrophysical Origin of the Heavy Elements and Related Rare Isotope Accelerator Physics, 8. – 10.01.2004

I. Dillmann  
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K.-L. Kratz  
The r-Process: Nuclear Data Needs

Orsay, Frankreich : Seminaire de la Division de Recherche, 02.02.2004

K.-L. Kratz  
R-Process Nucleosynthesis and Th-U Cosmochronometry

Salzburg, Österreich: HPCE2004, 17th International Symposium on Microscale Separation and Capillary Electrophoresis, 08.-12.02.2004

B. Kuczewski, H. Geckeis, J.V. Kratz, C.M. Marquardt, A. Seibert, N. Trautmann  
Separation of Plutonium and Neptunium Species by CE-ICP-MS

A. Seibert, B. Kuczewski, C.M. Marquardt  
CE-ICP-MS: A tool to determine oxidation state species of plutonium added to ground waters

Mainz: Tag der Offenen Tür, Vortragsreihe zur Hirnforschung: Kopfarbeit – Dem Denken und Fühlen auf der Spur, 11.02.2004

F. Rösch  
Dem Gehirn beim Arbeiten zusehen

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+ Vortragender unterstrichen, falls nicht an erster Stelle aufgeführt  
\* auf Einladung

Marburg: GDCh-Kolloquium des Fachbereichs Chemie, 11.02.2004

N. Trautmann\*  
Ultrapurenanalytik langlebiger Radionuklide mit Lasermassenspektrometrie

Darmstadt: NUSTAR Annual Meeting, 19.-21.02.2004

K.-L. Kratz  
Perspectives of Nuclear Astrophysics at GSI

Frankfurt: Frankfurter Bürgerstiftung zum 125. Geburtstag von Otto Hahn, 08.03.2004

G. Herrmann\*  
Geschichte der Kernspaltung - eine Entdeckung auf Umwegen

Köln: DPG Nuclear Physics Spring Meeting, 08.-12.03.2004

P. Adrich for the S221 collaboration  
Coulomb breakup of nuclei in the  $^{132}\text{Sn}$  region

Th. Aumann for the R3B collaboration  
Perspectives for Scattering Experiments with Relativistic Radioactive Beams at the Future Super-FRS at GSI

E. Kaza, F. Attallah, K. Beckert, P. Beller, F. Bosch, D. Boutin, T. Faestermann, B. Franczak, B. Franzke, H. Geissel, M. Hausmann, M. Hellström, O. Klepper, H.-J. Kluge, C. Kozhuharov, K.-L. Kratz, Y. Litvinov, L. Maier, M. Matos, G. Münzenberg, F. Nolden, Y. Novikov, A.N. Ostrowski, T. Ohtsubo, A. Ozawa, B. Pfeiffer, M. Portillo, C. Scheidenberger, J. Stadlmann, T. Suzuki, K. Sümmerer, D. Vieira, H. Weick, M. Winkler, H. Wollnik, and T. Yamaguchi  
Schottky mass measurements of neutron-rich nuclides between lead and uranium

Yu.A. Litvinov, H. Geissel, M. Matos, Yu.N. Novikov, Z. Patyk, T. Radon, C. Scheidenberger, F. Attallah, K. Beckert, P. Beller, F. Bosch, D. Boutin, T. Buervenich, M. Falch, T. Faestermann, B. Franzke, M. Hausmann, E. Kaza, T. Kerscher, O. Klepper, H.-J. Kluge, C. Kozhuharov, K.-L. Kratz, S.A. Litvinov, K.E.G. Löbner, G. Münzenberg, L. Maier, F. Nolden, T. Ohtsubo, A. Ostrowski, A. Ozawa, B. Pfeiffer, M. Portillo, J. Stadlmann, K. Suzuki, M. Steck, S. Typel, D. Vieira, H. Weick, M. Winkler, H. Wollnik, and T. Yamaguchi  
New results from direct mass measurements at GSI

B. Pfeiffer, K. Farouqi, and K.-L. Kratz  
Isotopic abundance ratios in ultra-metal-poor  
Halo stars

Russbach, Österreich: 1<sup>st</sup> VISTARS Workshop  
on Nuclear Astrophysics, 14.-19.03.2004

O. Arndt, I. Dillmann, K.-L. Kratz, A. Ostrowski,  
B. Pfeiffer, A. Wöhr  
Very neutron-rich isotopes at the  $A \approx 130$  re-  
gion

K. Farouqi  
Astrophysical conditions for an r-process in the  
high-entropy bubble scenario

K.-L. Kratz  
Nuclear data needs for explosive nucleosyn-  
thesis

K.-L. Kratz  
R-process

B. Pfeiffer  
Nuclear Astrophysics: History of Nucleosynthe-  
sis up to  $B^{2}FH$

B. Pfeiffer  
R-process cosmochronometer

Flachau, Österreich: Second n TOF Winter  
School, 22.-26.03.2004

K.-L. Kratz  
R-process nucleosynthesis and Th-U-  
cosmochronometry

München: 68. Physikertagung und AMOP-  
Frühjahrstagung, 22.-26.03.2004

S. Bürger, R. Buda, H. Geckeis, G. Huber, J.V.  
Kratz, G. Passler, N. Trautmann  
Empfindliche Plutoniumbestimmung in Sicker-  
wasserproben von Granitgestein

A. Dretzke, R. Horn, H. Backe, K. Eberhardt, S.  
Fritzsche, R.G. Haire, T. Kolb, W. Lauth, M.  
Sewtz, P. Thörle, N. Trautmann  
Optische Spektroskopie an Fermium ( $Z = 100$ )

Ch. Geppert, P. Schumann, K. Wies, K.  
Wendt, N. Trautmann, E. Denk, T. Walczyk  
Anwendungen der RIMS für  $^{41}Ca$  Tracerstudien  
zu biomedizinischen Fragestellungen

P. Kunz, G. Huber, G. Passler, N. Trautmann  
Efficient Three-Step, Two-Color Ionization of  
Plutonium Using a Resonance Enhanced 2-  
Photon Transition into an Autoionizing State

J. Maul, K. Eberhardt, G. Huber, S. Karpuk, G.  
Passler, I. Strachnov, N. Trautmann, K. Wendt  
Bimodale Velocity Distribution of Neutral Atoms  
Released from Laser Ablation

P. Schumann, S.F. Boulyga, G. Passler, N.  
Trautmann, K.D.A. Wendt  
Hochauflösende Resonanzionisationsspektro-  
skopie an Uran-Isotopen für den Nachweis von  
Uran-236

I. Strachnov, K. Eberhardt, G. Huber, S. Kar-  
puk, N. Kotovski, J. Maul, G. Passler, M.C.  
Roca, N. Trautmann, K. Wendt  
Spatially Resolved Ultra Trace Analysis of  
Elements Using Laser Desorption and Reso-  
nance Enhanced Photoionisation

Ringberg: 12<sup>th</sup> Workshop on Nuclear Astro-  
physics, 22.-27.03.2004

K.-L. Kratz, W. Böhmer, C. Freiburghaus, P.  
Möller, B. Pfeiffer, T. Rauscher, F.-K. Thiele-  
mann  
The EK-1-4-1 story

Mainz: Volkshochschule, 23.03.04

B. Pfeiffer  
Kosmische Strahlung – Boten aus dem Weltall

Karlsruhe: International Workshop on Sorption  
Processes at Oxide and Carbonate Mineral  
Water Interfaces SOPRO, 25.-26.03.2004

S. Amayri, J. Drebert, T. Reich  
EXAFS Investigation of Uranium(VI) Adsorp-  
tion on Kaolinite

Anaheim, USA: 227th ACS National Meeting,  
Division of Nuclear Chemistry and Technolgy,  
28.03.-01.04.2004

S. Amayri, T. Reich, T. Arnold, G. Geipel, G.  
Bernhard  
Spectroscopic characterization of alkaline earth  
uranyl carbonates  
Abstract of papers of the American Chemical  
Society, 227 U77 149-NUCL (2004)

T. Reich, S. Amayri, J. Drebert  
Uranium Sorption on Kaolinite  
Abstract of papers of the American Chemical  
Society, 227 U98 16-NUCL (2004)

Jülich: Fortbildungsseminar des Forschungszentrums Jülich zu speziellen Fragen im Strahlenschutz, 14.04.2004

N. Trautmann\*  
Isotopenselektive Ultrapurenanalyse von langlebigen Radionukliden mit laserresonanter Ionisations-Massenspektrometrie (RIMS)

Rostock: 42. Jahrestagung der Deutschen Gesellschaft für Nuklearmedizin und SGNM/SSMN: 5th Annual Congress, 21.24.04.2004

H.G. Buchholz, Y. Zhou, I.B. Vernaleken, C. Landvogt, T. Siessmeier, F. Rösch, P. Bartenstein  
Vergleich parparametrischer Methoden für die Quantifizierung von D2-Dopamin-Rezeptorliganden unterschiedlicher Affinität

H.G. Buchholz, T. Siessmeier, C. Landvogt, M. Piel, R. Schirmmacher, M. Schreckenberger, P. Bartenstein  
Normalisierung von D2-Dopamin-Rezeptorligandenbildern mit SPM unter Verwendung eines ligandenspezifischen Templates

M. Jennewein, O. Bergner, S.M. Qaim, P.P. Antich, P.E. Thorpe, R.P. Mason, F. Rösch  
Nca As-77 and As-74 Triiodide as new Synthons for Antibody Labelling and First in vivo Imaging

C. Landvogt, I. Vernaleken, T. Siessmeier, H.G. Buchholz, F. Rösch, G. Gründer, P. Bartenstein  
Welche Eigenschaften machen Clozapin „atypisch“: eine PET-Studie mit  $^{18}\text{F}$ -Fallyprid

E. Schirmmacher, C. Beck, R. Schirmmacher, F. Rösch, N. Trautmann, W. Mier  
Synthesis of a Tyr3-Octreotate Conjugated Closo-Carborane: A Potential Compound for Boron Neutron Capture Therapy

T. Siessmeier, H.G. Buchholz, G. Hendriksen, H.J. Wester, F. Rösch, M. Schreckenberger, P. Bartenstein  
Vergleich unterschiedlicher Quantifizierungsmethoden für den unspezifischen Opiatrezeptorliganden  $^{18}\text{F}$ -Fluori-Ethyl-Diprenorphin

T. Siessmeier, G. Gründer, P. Bartenstein, A. Heinz, H.G. Buchholz, R. Schirmmacher, Y. Kumakura  
Das Verlangen nach Alkohol korreliert mit der striatalen Dopaminrezeptorbindung und Dopaminspecherkapazität

Mainz: Tagung der Arbeitsgemeinschaft der Betreiber von Forschungsreaktoren (AFR), 27.-28.04.2004

K. Eberhardt, N. Trautmann  
Der Forschungsreaktor TRIGA Mainz

Turin, Italien: Advances in Nuclear Medicine Seminar, 28.04.04

M. Jennewein  
Somatostatin Receptor Imaging with  $^{68}\text{Ga}$ -DOTATOC and Radioactive Arsenic Isotopes for Antibody-Labeling and Imaging

M. Piel  
PET and Radiopharmaceutical Chemistry for Tumor Metabolism and –physiology and Routine Diagnosis

Denver, USA: Annual APS April Meeting, 01.-04.05.2004

K.-L. Kratz  
[B2.001] The r-Process and Nuclear Structure near the Dripline

J. Shergur, A. Wöhr, W.B. Walters, K.-L. Kratz, O. Arndt, A. Brown, I. Dillmann, P. Hoff, U. Köster, B. Pfeiffer  
[L10.006] Determination of Low-Spin Levels in  $^{134,135}\text{Sb}$  via Decay of  $^{135}\text{Sn}$

Berlin: Medizinisch wissenschaftliches Symposium - Europatag, 05.05.2004

F. Rösch  
Molecular Imaging – Biochemische Ansätze der PET

Saarbrücken: BMWA-Workshop „Migration von Actiniden im System Ton, Huminstoff, Aquifer“, 11. und 12.05.2004

S. Amayri, J. Drebert, S. Boulyga, T. Reich  
EXAFS-Untersuchungen zur Sorption von U(VI) an Kaolinit

S. Bürger, R. Buda, H. Geckeis, G. Huber, J.V. Kratz, P. Kunz, G. Passler, N. Trautmann  
Empfindliche Plutoniumbestimmung in Umweltproben mit Lasermassenspektrometrie

B. Kuczewski  
Speziationsuntersuchungen am Plutonium

Orsay, Frankreich: Workshop TANDEM-ALTO, 17.-18.05.2004

K.-L. Kratz  
R-process with ALTO



Athen, Griechenland: COSTD18, Working Group 2004, 20.-22.05.2004

H. Mäcke, M. Jennewein, H. Zhang, J. Chen, F. Rösch, J.C. Reubi  
Simultaneous Evaluation of DOTA-Bombesin Derivatives Using the Cocktail Approach

A.F. Novgorodov, D.V. Filossofov, K.P. Zher-nosekov, A. Korobeinikov, N.A. Lebedev, N.A. Korolev, G.-J. Beyer, F. Rösch, and the ISOLDE Collaboration

Isolation of Lanthanide and Hafnium Radioiso-topes from a Massive Ta-target Irradiated with 1 GeV Protons

K. Zher-nosekov, N.A. Korolev, D.V. Filossofov, A.F. Novgorodov, F. Rösch  
Non-Invasive, Analysis of the Chemical Status of  $^{111}\text{In}$ -Labelled Compounds Using 1-PAC and Potential Application for Radiolanthanides

Genf, Schweiz: Workshop on Physics with a Multi-MW Proton Source, 25.-27.05.2004

K.-L. Kratz  
Astrophysics with RIB

Kopenhagen, Dänemark: 14<sup>th</sup> Annual Gold-schmidt Conference, 05.-11.06.2004

M. Merroun, J. Raff, A. Rossberg, C. Hennig, T. Reich, S. Selenska-Pobell  
Interaction of U(VI) with Bacterial Strains Iso-lated from Uranium Mining Piles: Spectro-scopic and Microscopic Studies

Bochum: Physikalisches Kolloquium, Ruhr-Universität Bochum, 7.6.2004

K.-L. Kratz  
Entstehung der schweren Elemente im r-Prozess

Philadelphia, USA: 51<sup>st</sup> Annual Meeting of the Society of Nuclear Medicine, 19.-23.06.2004

B. Wängler, R. Schirmmacher, S. Schneider, C.Y. Shiue, F. Rösch, A.A. Alavi  
Synthesis and Evaluation of (S)-2-(2-[ $^{18}\text{F}$ ]Fluoroethoxy)-4-([3-Methyl-1-(2-Piperidin-1-YL-Phenyl)-Butyl-Carbamoyl]-Methyl)-Benzoic Acid ([ $^{18}\text{F}$ ]Repaglinide): A Potential Radioligand for Quantification of Pancreatic Beta-Cell Mass With Positron Emission Tomography (PET)

Yale, USA: 14th Conference on Solid State Dosimetry (SSD14), 27.06.-02.07.2004

B. Burgkhardt, P. Bilski, M. Budzanowski, R. Böttger, K. Eberhardt, G. Hampel, P. Olko, S. Scheloske, A. Straubing  
Application of Different TL-Detectors for the Dosimetry of the Photon Component in BNCT

Göteborg, Schweden: Int. Nuclear Physics Conference - INPC2004, 27.06.-02.07.2004

P. Hosmer, O. Arndt, R.R.C. Clement, A. Es-trade, K.-L. Kratz, P.F. Mantica, W.F. Mueller, F. Montes, C. Morton, M. Ouellette, E. Pelle-grini, B. Pfeiffer, P. Reeder, P. Santi, H. Schatz, M. Steiner, A. Stolz, B.E. Tomlin, W.B. Walters, A. Wöhr  
First half-life measurement of the doubly-magic r-process nucleus  $^{78}\text{Ni}$

K.-L. Kratz for the Mainz - Maryland - Notre Dame - Oslo - ISOLDE Collaboration  
The r-process and nuclear structure in the  $^{132}\text{Sn}$  region

Petershof, Russland: Int. Symp. on Exotic Nu-clei - EXON2004, 5.-12.07.2004

M. Matos, Yu. N. Novikov, K. Beckert, P. Bel-ler, F. Bosch, D. Boutin, T. Faestermann, B. Franczak, B. Franzke, H. Geissel, M. Haus-mann, E. Kaza, O. Klepper, H.-J. Kluge, C. Kozuharov, K.-L. Kratz, Yu. A. Litvinov, L. Maier, G. Münzenberg, F. Nolden, T. Ohtsubo, A.N. Ostrowski, Z. Patyk, B. Pfeiffer, M. Portillo, C. Scheidenberger, J. Stadlmann, M. Steck, D. Vieira, H. Weick, M. Winkler, H. Wollnik, T. Yamaguchi  
Direct Mass Measurements of Short-Lived Neutron-Rich Fission Fragments at the FRS-ESR Facility at GSI

Vancouver, Canada: "The Eighth International Symposium on Nuclei in the Cosmos NIC VIII", 19.-23.07.2004

K. Farouqi, C. Freiburghaus, K.-L. Kratz, B. Pfeiffer, T. Rauscher and F.-K. Thielemann  
Astrophysical conditions for an r-process in the high-entropy wind scenario of type II supernovae

F. Montes, H. Schatz, A. Aprahamian, O. Arndt, A. Estrade, K.-L. Kratz, S.N. Liddick, P.F. Mantica, W.F. Mueller, P. Hosmer, A.C. Morton, M. Ouellette, E. Pellegrini, B. Pfeiffer, P. Reeder, P. Santi, A. Stolz, B.E. Tomlin, W.B. Walters, A. Wöhr  
Beta-decay studies close to the N=82 r-process path

H. Schatz, R.R.C. Clement, A. Estrade, P. Hosmer, P.F. Mantica, F. Montes, C. Morton, W.F. Mueller, M. Ouellette, E. Pellegrini, P. Santi, M. Steiner, A. Stolz, B.E. Tomlin, O. Arndt, K.-L. Kratz, B. Pfeiffer, P. Reeder, W.B. Walters, A. Aprahamian, A. Wöhr  
Experiments with radioactive beams of r-process nuclei

Santa Fe, New Mexico, USA: Chemical Enrichment of the Early Universe, 09.-13.08.2004

K.-L. Kratz  
R-Process Data

Philadelphia, USA: 228<sup>th</sup> National ACS Meeting, 22.-26.08.2004

J. Shergur, W.B. Walters, K.-L. Kratz, and A. Wöhr,  
Using Laser Resonance Ionization to Enhance Selectivity in the Production of Neutron-Rich Sn Nuclei

Darmstadt: 3rd Workshop on Recoil Separator for Superheavy Element Chemistry, 27.08.2004

H. Hummrich, J.V. Kratz  
Electrochemical Deposition – a Tool for the Investigation of Superheavy Element Chemistry?

J.P. Omtvedt and the SISAK collaboration  
Liquid Phase Chemistry with SISAK Using Preseparated Activity

Aachen: 6th International Conference on Nuclear and Radiochemistry (NRC-6), 29.08.-03.09.2004

S. Anderson, K. Eberhardt, C. Ekberg, J.O. Liljenzin, M. Nilsson, G. Skarnemark  
Determination of Stability Constants of Lanthanide Nitrate Complex Formation Using a Solvent Extraction Technique

K. Eberhardt, S. Andersson, C. Ekberg, B. Horn, J.V. Kratz, A. Müller, M. Nilsson, G. Skarnemark, N. Trautmann  
MicroSISAK – A New Device for Fast and Continuous Liquid-Liquid-Extractions on a Microliter Scale

G. Herrmann\*  
Ein Jahrhundert Kern- und Radiochemie – Von Marie Curie bis zu den superschweren Elementen

H. Hummrich, J.V. Kratz  
Electrochemical Deposition – a Tool for the Investigation of Superheavy Element Chemistry?

M. Jennewein, S. Maus, S.M. Qaim, F. Rösch  
A New <sup>72</sup>Se/<sup>72</sup>As Radionuclide Generator Based on Solid Phase Extraction

J.V. Kratz  
Status and Future Developments of the Aqueous Heavy-element Chemistry

B. Kuczewski, C.M. Marquardt, A. Seibert, H. Geckeis, J.V. Kratz, N. Trautmann  
Separation of Plutonium and Neptunium Species by CE-ICP-MS and Application to Natural Groundwater Samples

E. Mauerhofer, K. Zheronosekov, F. Rösch  
Limiting Transport Properties of Actinide Ions in Pure Water

A. Seibert, C.M. Marquardt, J.V. Kratz, N. Trautmann, Th. Fanghänel  
Humate Complexation of Neptunium (V)

S. Soverna, W. Bröchle, R. Dressler, Ch.E. Düllmann, K. Eberhardt, B. Eichler, R. Eichler, Ch.M. Folden, H.W. Gäggeler, K.E. Gregorich, F. Haeussler, E. Jäger, J.V. Kratz, H. Nitsche, D. Piguet, Z. Qin, U. Rieth, M. Schädel, B. Schausten, E. Schimpf, N. Trautmann, P. Thörle, A. Türler, P.A. Wilk, G. Wirth, A.B. Yakushev, A. von Zweidorf  
Attempt to Chemically Characterize Element 112

N. Trautmann\*  
Ultratrace Analysis of Long-lived Radionuclides by Laser Mass Spectrometry (RIMS)

A. von Zweidorf, R. Angert, W. Bröchle, S. Bürger, K. Eberhardt, R. Eichler, H. Hummrich, E. Jäger, R. Jera, H.-O. Kling, J.V. Kratz, U. Krille, B. Kuczewski, G. Langrock, G. Lehr, M. Mendel, A. Nähler, A. Peil, V. Pershina, U. Rieth, M. Schädel, B. Schaustem, E. Schimpf, H.-J. Schött, E. Stiel, P. Thörle, N. Trautmann, K. Tsukada, N. Wiehl, G. Wirth  
Final Result of the CALLISTO-Experiment: Formation of Sodium Hassate (VIII)

K.P. Zheronosekov, E. Mauerhofer, D.V. Filosofov, N.A. Korolov, A.F. Novgorodov, F. Rösch  
Complex Formation of In(III) with D-gluconate and Glycolate in Neutral Aqueous Perchlorate Solutions in Wide Range of pH

Helsinki, Finland: Annual Congress of the EANM, 05.09.-08.09.2004

M. Jennewein, A. Constantinescu, O. Bergner, M. Lewis, D. Zhao, N. Slavine, S. Selioline, S. O'Kelly, S. Maus, S.M. Qaim, E. Tsyganov, P.P. Antich, F. Rösch, R.P. Mason, P.E. Thorpe  
Molecular Imaging of the Vascular Targeting Antibody Vatumimab® in Rat Prostate Cancer

C. Landvogt, G. Gründer, I. Vernaleken, H.G. Buchholz, T. Siessmeier, F. Rösch, P. Barstenstein  
Beyond The Striatum: The Extrastriatal Binding Characteristics of Clozapine. A PET Study with [<sup>18</sup>F]Fallypride in Schizophrenic Patients

Wien, Österreich: 2<sup>nd</sup> World TRIGA Users Conference, 15.-18.09.2004

K. Eberhardt, N. Trautmann  
Operation Experience and Research Activities at the TRIGA Mainz

Berkeley, USA: 3rd Workshop on Speciation, Techniques, and Facilities for Radioactive Materials at Synchrotron Light Sources, 14.-16.09.2004

T. Reich, S. Amayri, J. Drebert  
EXAFS Study of Uranium(VI) Sorption on Kaolinite

Bornheim-Walberberg: 12. Arbeitstreffen der AG Radiochemie/Radiopharmazie der DGN, 23.-25.09.2004

M. Jennewein, P. Thorpe, R.P. Mason, A. Hermanne, F. Rösch  
Neue Strategien zur Antikörpermarkierung mit nca As-Isotopen und erste in vitro/in vivo Evaluierungen

U. Mühlhausen, R. Schirrmacher, M. Piel, B. Kaina, F. Rösch  
Synthese, Radioiodierung und Evaluierung von neuen MGMT-Inhibitoren und ihren Glucose-konjugaten

A Coruña, Spanien: Workshop COST D18 „Lanthanide Chemistry for Diagnosis and Therapy”, 23.-25.09.2004

K.P. Zhernosekov, D.V. Filosofov, N.A. Korolev, A.F. Novgorodov, F. Rösch  
Non-invasive 1-PAC Determination of Indium and Lanthanides Complex Formation Relevant to Molecular Imaging and Endoradiotherapy

D.V. Filosofov, N.A. Korolev, K. Zhernosekov, A.F. Novgorodov, F. Rösch  
Gamma-Gamma Perturbed Angular Correlation Techniques for the Determination of Physical-Chemical Properties of Radiolanthanide Species

Santa Fe, NM, USA: Nuclear Data for Science and Technology Conference - ND2004, 26.09.-01.10. 2004

T. Fukahori, A.V. Ignatyuk, F.G. Kondev, K.-L. Kratz, V. McLane, A.L. Nichols, A. Nouri, O. Schwerer, A.A. Sonzogni, D.F. Winchell  
Data Dissemination and International Collaborations

K.-L. Kratz, A.N. Ostrowski and B. Pfeiffer  
Nuclear Physics Data Relevant to R-Process Nucleosynthesis

Berlin: 2. Workshop “Nano-Carrier für die medizinische Anwendung in Diagnostik und Therapie”, 27.09.2004

F. Rösch  
Octreotid als Vektor zum Targeting neuroendokriner Tumore

Ludwigshafen: Seminar der Abteilung GVC der Firma BASF, 29.09.2004

K. Eberhardt\*  
Aufbau und Nutzung des Forschungsreaktors TRIGA Mainz

Heidelberg: Workshop des Projektverbundes “Migration von Actiniden im System Ton, Huminstoff, Aquifer”, 12.-13.10.2004

B. Kuczewski  
Neue Ergebnisse zur Wechselwirkung von Plutonium mit Humin- und Fulvinsäure

T. Reich, S. Amayri, J. Drebert  
Erste Untersuchungen zur Sorption von Neptunium an Kaolinit

Boston, USA: Eleventh World Congress on Neutron Capture Therapie (ISNTC-11), 11.-15.10.2004

G. Hampel, A. Lizon Aguilar, R. Behrendt, W. Bernnat, K. Eberhardt, D. Nigg, C. Wemple  
Dose Calculations with SERA for the Application of BNCT at the TRIGA Mainz

Argonne, USA: International Conference on Laser Probing „LAP 2004“, 19.-23.10.2004

H. Backe, A. Dretzke, R. Horn, T. Kolb, P. Kunz, W. Lauth, M. Sewtz, P. Schwamb, K. Eberhardt, P. Thörle, N. Trautmann, G. Passler, S. Fritzsche, R.G. Haire  
Optical Spectroscopy of the Element Fermium

N. Erdmann, J.V. Kratz, N. Trautmann, J. Bastiaansen, Ü. Lievens, R.E. Silverans, F. Vervaecke, E. Vandeweert  
Resonance Ionization Mass Spectrometry of Uranium Sputtered from Uranium Particles

P. Kunz, N. Erdmann, G. Huber, J.V. Kratz, G. Passler, N. Trautmann, K. Wendt  
Efficient and Selective Ionization of Plutonium Using Pulsed and cw-Lasers with Three-Step, Three-Color and Three-Step, Two-Color Excitation

I. Strachnow, J. Maul, K. Eberhardt, G. Huber, S. Karpuk, G. Passler, M.C. Roca-Sais, N. Trautmann, K. Wendt  
A Laser Desorption/Resonance Enhanced Photoionization TOF-System for the Spatially Resolved Trace Analysis of Elements

K. Wendt, K. Blaum, Ch. Geppert, A. Schmitt, P. Schumann, N. Trautmann, B.A. Bushaw  
High Resolution Resonance Ionization for Spectroscopy and Elemental Ultra Trace Analysis: from  $^{41}\text{Ca}$  to  $^{236}\text{U}$

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N.L. Banik  
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