

## Veröffentlichungen und Vorträge der Mitarbeiter der berichterstattenden Arbeitsgruppen

### Veröffentlichungen

- P. Adrich, A. Klimkiewicz, M. Fallot, K. Boretzky, T. Aumann, D. Cortina-Gil, U. Datta Pramanik, Th.W. Elze, H. Emling, H. Geissel, M. Hellström, K.-L. Jones, J.V. Kratz, R. Kulessa, Y. Leifels, C. Nociforo, R. Palit, H. Simon, G. Surówka, K. Sümerer, and W. Walus  
Evidence for Pygmy and Giant Dipole Resonances in  $^{130}\text{Sn}$  and  $^{132}\text{Sn}$   
*Phys. Rev. Lett.* **95**, 132501 (2005)
- O. Arndt, I. Dillmann, M. Hannawald, S. Hennrich, P. Hoff, U. Köster, K.-L. Kratz, B. Pfeiffer, J.M. Shergur, W.B. Walters, L. Weissman, A. Wöhr, and the ISOLDE IS333, IS378 and IS393 Collaborations  
Beta-Delayed Neutron Measurements of r-Process Isotopes in the  $^{132}\text{Sn}$  Region  
September 12 - 16, 2004, Callaway Gardens, Pine Mountain, Georgia, USA;  
*EPJ A25* Supplement 1, 121 (2005)
- H. Backe, A. Dretzke, R. Horn, T. Kolb, W. Lauth, R. Repnow, M. Sewtz, N. Trautmann  
Ion Mobility Measurements and Ion Chemical Reaction Studies at Heavy Elements in a Buffer Gas Cell  
Hyperfine Interactions, im Druck
- N. L. Banik, R. A. Buda, S. Bürger, J. V. Kratz, B. Kuczewski, N. Trautmann  
Speciation of the oxidation states of Np and Pn in aqueous solutions by CE-ICP-MS and CE-RIMS  
*Proc. Int. Conf. Actinides 2005*, Royal Society of Chemistry, im Druck
- 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 B*, 2005, in press
- 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* xx (2005) xxx
- S. Bürger, N. L. Banik, R. A. Buda, J. V. Kratz, B. Kuczewski, N. Trautmann  
Speciation of the Oxidation States of Plutonium in Aqueous Solutions by CE-ICP-MS and CE-RIMS  
*Radiochim. Acta*, eingereicht
- S. 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  
im: Radioactivity in the Environment, im Druck
- L.V. Chulkov, H. Simon, I.J. Thompson, T. Aumann, M.J.G. Borge, Th. W. Elze, H. Emling, H. Geissel, L.V. Grigorenko, M. Hellström, B. Jonson, J.V. Kratz, R. Kulessa, K. Markenroth, M. Meister, G. Münzenberg, F. Nickel, T. Nilsson, G. Nyman, V. Pribora, A. Richter, K. Rissager, C. Scheidenberger, G. Schrieder, O. Tengblad and M.V. Zhukov  
Three-body correlations in electromagnetic dissociation of Borromean nuclei: The  $^6\text{He}$  case  
*Nuclear Physics A759*, 43 (2005)
- G.W.F. Drake, W. Nörterhäuser, and Z.-C. Yan  
Isotope shifts and nuclear radius measurements for helium and lithium  
*Canadian Journal of Physics* 83, 311-325 (2005)
- K. Eberhardt, N. Trautmann  
Neutron Activation Analysis at the TRIGA Mark II Research Reactor of the University of Mainz  
In: IAEA-Compendium on Purpose-Designed Research Reactor Facilities, im Druck
- 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, D. C. Hoffmann, H. Hummrich, E. Jäger, J. V. Kratz, B. Kuczewski, D. Liebe, D. Nayak, H. Nitsche, D. Piquet, 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 Zweidorff  
Attempts to Chemically Investigate Element 112  
*Radiochim. Acta*, im Druck
- A. El-Taher, A. Nossair, A.H. Azzam, K.-L. Kratz and A.S. Abdel Halim  
[A3-1] Elemental analysis of Aswan iron-ore samples by instrumental neutron activation analysis  
Proc. El-Minia International Conference *Towards a Safe and Clean Environment – TSCE'05*; 15 - 17 April 2005, Al Minya University, Al Minya City, Egypt

G. Ewald, W. Nörtershäuser, A. Dax, S. Götte, R. Kirchner, H.-J. Kluge, Th. Kühl, R. Sanchez, A. Wojtaszek, B.A. Bushaw, G.W.F. Drake, Z.-C. Yan, and C. Zimmermann  
Erratum: Nuclear Charge Radii of  $^{8,9}\text{Li}$   
Determined by Laser Spectroscopy  
Phys. Rev. Lett. 94, 039901 (2005)

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  
Proc. "The Eighth International Symposium on Nuclei in the Cosmos NIC VIII", July 19 - 23, 2004, Vancouver, BC, Canada;  
Nucl. Phys. A758, 631c (2005)

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  
September 26 - October 1, 2004, Santa Fe, NM, USA;  
AIP Conf. Proc. 539 1356 (2005)

L. Gaudefroy, O. Sorlin, C. Donzaud, J. C. Angélique, F. Azaiez, C. Bourgeois, V. Chiste, Z. Dlouhy, S. Grévy, D. Guillemaud-Mueller, F. Ibrahim, K.-L. Kratz, M. Lewitowicz, S.M. Lukyanov, I. Matea, J. Mrasek, F. Nowacki, F. de Oliveira Santos, Yu.-E. Penionzhkevich, B. Pfeiffer, F. Pougeon, M.G. Saint-Laurent, and M. Stanoiu  
Beta-decay studies of neutron-rich Sc-Cr nuclei  
EPJ A23, 41-48 (2005)

G. Gründer, Ch. Landvogt, I. Vernaleken, H.-G. Buchholz, J. Ondracek, T. Siessmeier, S. Härtter, M. Schreckenberger, P. Stoeter, Ch. Hiemke, F. Rösch, D. F. Wong, P. Bartenstein  
The striatal and extrastratal D2/D3 receptor binding profile of clozapine in patients with schizophrenia  
Neuropsychopharmacology 1-9 (2005)

A. Heinz, T. Siessmeier, J. Wräse, H. G. Buchholz, G. Grunder, Y. Kumakura, P. Cumming, M. Schreckenberger, M. N. Smolka, F. Rösch, K. Mann, P. Bartenstein  
Correlation of alcohol craving with striatal dopamine synthesis capacity and D2/3 receptor availability: A combined [18F]DOPA and [18F]DMFP PET study in detoxified alcoholic patients.  
Am. J. Psychiatry 8, 1515-20 (2005)

A. Helisch, E. Schirrmacher, O. Thews, R. Schirrmacher, H. G. Buchholz, W. Dillenburg, S. Höhnemann, J. Tillmanns, I. Wessler, R. Buhl, F. Rösch, P. Bartenstein  
Demonstration of pulmonary beta(2)-adrenergic receptor binding in vivo with [18F]fluoroethyl-fenoterol in a guinea pig model  
Eur. J. Nucl. Med. Mol. Imaging 32, 1324-1328 (2005)

C. Hennig, T. Reich, W. Kraus, G. Reck, F. Prokert, N. Schell  
Combining EXAFS and X-ray powder diffraction to solve structures containing heavy atoms  
Physica Scripta T115, 352 (2005)

G. Herrmann  
Hitlers Bombe?  
Nachrichten aus der Chemie 53, 1127 (2005)

H. Herzog, F. Rösch  
PET- und SPECT-Technik: Chemie und Physik der Bildgebung  
Pharmazie in unserer Zeit, Vol. 34, Issue 6, 468 (2005)

P.T. Hosmer, H. Schatz, A. Aprahamian, O. Arndt, R.R.C. Clement, A. Estrade, K.-L. Kratz, S.N. Liddick, P.F. Mantica, W.F. Mueller, F. Montes, A.C. Morton, M. Ouellette, E. Pellegrini, B. Pfeiffer, P. Reeder, P. Santi, M. Steiner, A. Stoltz, B.E. Tomlin, W.B. Walters, and A. Wöhr  
Half-life of the doubly-magic r-process nucleus  $^{78}\text{Ni}$   
Phy. Rev. Lett. 94, 112501 (2005)

M. Jennewein, S. M. Qaim, P. V. Kulkarni, R.P. Mason, A. Hermanne, F. Rösch  
A no-carrier-added  $^{72}\text{Se}/^{72}\text{As}$  radionuclide generator based on solid phase extraction  
Radiochim Acta 93, 579-583 (2005)

M. Jennewein, S. M. Qaim, A. Hermanne, M. Jahn, E. Tsyganov, N. Slavine, S. Seliounine, P. A. Antich, P. V. Kulkarni, P. E. Thorpe, R. P. Mason, F. Rösch,  
A new method for radiochemical separation of arsenic from irradiated germanium oxide  
Appl. Radiat. Isot. 63, 343–351 (2005)

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 B, 2006 in press

T. Kautzsch, A. Wöhr, W.B. Walters, K.-L. Kratz, B. Pfeiffer, M. Hannawald, J.M. Shergur, O. Arndt, S. Hennrich, S. Falahat, T. Griesel, O. Keller, A. Aprahamian, B.A. Brown, P.F. Mantica, M.A. Stoyer, H.L. Ravn,  
and the ISOLDE IS333 and Rochester CHICO/Gammasphere Collaborations  
Decay Spectroscopy of Very Neutron-Rich Silver Isotopes  
September 12 - 16, 2004, Callaway Gardens, Pine Mountain, Georgia, USA;  
EPJ A25 Supplement 1, 117 (2005)

A. T. J. Klein, F. Rösch, H. H. Coenen, S. M. Qaim  
Labelling of manganese-based magnetic resonance imaging (MRI) contrast agents with the positron emitter  $^{51}\text{Mn}$ , as exemplified by manganese-tetraphenyl-porphin-sulfonate MnTPPS4)  
Appl. Rad. Isot. 62, 711-720 (2005)

U. Köster, O. Arndt, U. Bergmann, R. Catherall, J. Cederkäll, I. Dillmann, M. Dubois, F. Durantel, L. Fraile, S. Franchoo, G. Gaubert, L. Gaudefroy, O. Hallmann, C. Hurt-Equilbec, B. Jacquot, P. Jardin, K.-L. Kratz, N. Lecesne, R. Leroy, A. Lopez, L. Maunoury, J.Y. Pacquet, B. Pfeiffer, M.G. Saint-Laurent, C. Stodel, A.C.C. Villari and L. Weissman  
ISOL beams of neutron-rich oxygen isotopes at ISOLDE and SPIRAL  
September 12 - 16, 2004, Callaway Gardens, Pine Mountain, Georgia, USA;  
EPJ A25 Supplement 1, 729 (2005)

J. V. Kratz, N. L. Banik, R. A. Buda, S. Bürger, B. Kuczewski, N. Trautmann  
Speciation of the oxidation state of Np and Pu in aqueous solutions by CE-ICP-MS and CE-RIMS  
Proceedings of  
The Royal Society of Chemistry (RSC), UK, 2005, im Druck

K.-L. Kratz, B. Pfeiffer, S. Hennrich, and A. Wöhr  
R-Process Isotopes in the  $^{132}\text{Sn}$  Region  
Fourth Int. Conf. on Exotic Nuclei and Atomic Masses - ENAM04,  
September 12 - 16, 2004, Callaway Gardens, Pine Mountain, Georgia, USA;  
EPJ A25 Supplement 1, 633 (2005)

K.-L. Kratz , A.N. Ostrowski and B. Pfeiffer  
Nuclear Physics Data Relevant to R-Process Nucleosynthesis  
Nuclear Data for Science and Technology Conference - ND2004, September 26 - October 1, 2004, Santa Fe, NM, USA;  
AIP Conf. Proc. 769 1356 (2005)

K.-L. Kratz, B. Pfeiffer, K. Farouqi, J.W. Truran, J.J. Cowan, C. Sneden  
Abundance Clues to the Natures of the Two r-Processes  
APJ, in preparation

P. Kunz, G. Huber, G. Passler, N. Trautmann, K. Wendt  
Resonance Ionization Mass Spectrometry (RIMS) with Pulsed and cw-Lasers on Plutonium Hyperfine Interactions, im Druck

H.M. Mahmoud, A.G.E. Abbady, M.A. Khairy, A.S. Abdehalim, A. El-Taher  
Multi-element determination in sandstone rock by instrumental neutron activation analysis  
Journal of Radioanalytical and Nuclear Chemistry 264, 715-718 (2005)

J. Maul, K. Eberhardt, G. Huber, S. Karpuk, G. Passler, M. C. Roca-Saiz, I. Strachnov, N. Trautmann, K. Wendt  
Multi-color Resonance Ionization of Laser Ablated Gadolinium at High Laser Power  
Optics Communications 256, 364 (2005)

M. L. Merroun, J. Raff, A. Rossberg, C. Hennig, T. Reich, S. Selenska-Pobell  
Complexation of uranium by cells and S-layer sheets of *Bacillus sphaericus* JG-A12  
Appl. Environ. Microbiol. 71, 5532 (2005)

F. Montes, A. Estrade, P.T. Hosmer, S.N. Liddick, P.F. Mantica, A.C. Morton, W.F. Mueller, M. Ouellette, E. Pellegrini, P. Santi, H. Schatz, A. Stolz, B.E. Tomlin, O. Arndt, K.-L. Kratz, B. Pfeiffer, P. Reeder, W.B. Walters, A. Aprahamian, and A. Wöhr  
 $\beta$ -decay half-lives and  $\beta$ -delayed emission probabilities for neutron rich nuclei close to the N=82 r-process path  
Phys. Rev. C, im Druck

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  
Nucl. Phys. A758, 643c (2005)

U. Mühlhausen, R. Schirrmacher, M. Piel, B. Lecher, G. Nagel, A. Pie-Staffa, B. Kaina, F. Rösch  
Synthesis of I-131 labeled glucose-conjugated inhibitors of O6-Methylguanine-DNA Methyltransferase (MGMT) and comparison with non-conjugated Inhibitors as potential tools for in vivo MGMT imaging  
J. Med. Chem., 2005 im Druck

- Y. Nagame, K. Tsukada, M. Asai, A. Toyoshima, K. Akiyama, Y. Ishii, T. Kaneko-Sato, M. Hirata, I. Nishinaka, S. Ichikawa, H. Haba, S. Enomoto, K. Matsuo, D. Saika, Y. Kitamoto, H. Hasegawa, Y. Tani, W. Sato, A. Shinohara, M. Ito, J. Saito, S. Goto, H. Kudo, H. Kikunaga, N. Kinoshita, A. Yokoyama, K. Sueki, Y. Oura, H. Nakahara, M. Sakama, M. Schädel, W. Brüchle and J.V. Kratz  
Chemical studies on Rutherfordium (Rf) at JAERI  
*Radiochim. Acta* 93, 519 (2005)
- C. Nociforo, K.L. Jones, L.H. Khiem, P. Adrich, T. Aumann, B.V. Carlson, D. Cortina-Gil, U. Datta Pramanik, Th.W. Elze, H. Emling, H. Geissel, M. Hellström, J.V. Kratz, R. Kulessa, T. Lange, Y. Leifels, H. Lenske, E. Lubkiewicz, G. Münzenberg, R. Palit, H. Scheit, H. Simon, K. Sümerer, S. Typel, E. Wajda, W. Walus, H. Weick  
Coulomb breakup of  $^{23}\text{O}$   
*Phys. Lett.* B605, 79 (2005)
- W. Nörtershäuser, B.A. Bushaw, A. Dax, G.W.F. Drake, G. Ewald, S. Götte, R. Kirchner, H.-J. Kluge, T. Kühl, R. Sanchez, A. Wojtaszek, Z.-C. Yan, and C. Zimmermann  
Measurement of the Nuclear Charge Radii of  $^{8,9}\text{Li}$  - The last step towards the determination of the Charge Radius of  $^{11}\text{Li}$   
*European Physical Journal A* 25 Supp. 1, 199-200 (2005)
- A. F. Novgorodov, N.A. Korolev, F. Roesch  
A combined  $^{148}\text{Gd} / ^{244}\text{Cm}$  source for energy calibration of  $\alpha$ -spectrometers  
*Appl. Radiat. Isot.*, 2005 in press
- 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. Amer. Soc. Nephrology* (2005), im Druck
- I.V. Panov, E. Kolbe, B. Pfeiffer, T. Rauscher, K.-L. Kratz, F.-K. Thielemann  
The fission rate calculations and consequences for r-process abundances  
*Nucl. Phys.* A747, 633-654 (2005)
- T. Reich  
Speciation analysis with synchrotron radiation  
*Anal. Bioanal. Chem.* 383, 10 (2005)
- F. Rösch, G. Gründer, M. Schreckenberger, G. Dannhardt  
Diagnostik von ZNS-Erkrankungen mittels PET bzw. SPECT  
Radiopharmazeutische Strategien und klinische Anwendungen
- A. V. Ryazhkin, Yu. A. Babanov, T. Miyanaga, E. D. Crozier, R. A. Gordon, T. Reich, H. Funke  
Thickness inhomogeneity effect in EXAFS spectroscopy  
*Physica Scripta* T115, 197 (2005)
- S. Sachs, K. Schmeide, T. Reich, V. Brendler, K. H. Heise, G. Bernhard  
EXAFS study on the neptunium(V) complexation by various humic acids under neutral pH conditions  
*Radiochim. Acta* 93, 17 (2005)
- H. Schatz, P.T. Hosmer, A. Aprahamian, O. Arndt, R.R.C. Clement, A. Estrade, K.-L. Kratz, S.N. Liddick, P.F. Mantica, W.F. Mueller, F. Montes, C. Morton, M. Ouellette, E. Pellegrini, B. Pfeiffer, P. Reeder, P. Santi, M. Steiner, A. Stoltz, B.E. Tomlin, W.B. Walters, and A. Wöhr  
The half-life of the doubly-magic r-process nucleus  $^{78}\text{Ni}$   
September 12 - 16, 2004, Callaway Gardens, Pine Mountain, Georgia, USA;  
*Eur. Phy. J.* A25 Supplement 1, 639 (2005)
- K. Schmeide, T. Reich, S. Sachs, V. Brendler, K. H. Heise, G. Bernhard  
Neptunium(IV) complexation by humic substances studied by X-ray absorption fine structure spectroscopy  
*Radiochim. Acta* 93, 187 (2005)
- S. Schneider, P. J. Feilen, M. Schreckenberger, M. Schwanstecher, C. Schwanstecher, H. G. Buchholz, O. Thews, K. Oberholzer, A. Korobeynikov, A. Bauman, S. Comagic, M. Piel, E. Schirrmacher, C.Y. Shiue, A. A. Alavi, P. Bartenstein, F. Rösch, M. M. Weber, H. H. Klein, R. Schirrmacher  
In vitro and in vivo evaluation of novel glibenclamide derivatives as imaging agents for the non-invasive assessment of the pancreatic islet cell mass in animals and humans.  
*Exp. Clin. Endocrinol. Diabetes* 7, 388-395 (2005)
- J. Shergur, N. Hoteling, A. Wöhr, W.B. Walters, O. Arndt, B.A. Brown, C.N. Davids, D.J. Dean, K.-L. Kratz, B. Pfeiffer, D. Seweryniak, and the ISOLDE Collaboration  
New level information on Z=51 isotopes,  $^{111}\text{Sb}_{60}$  and  $^{134,135}\text{Sb}_{83,84}$   
September 12 - 16, 2004, Callaway Gardens, Pine Mountain, Georgia, USA;  
*Eur. Phy. J.* A25 Supplement 1, 121 (2005)
- J. Shergur, A. Wöhr, W.B. Walters, K.-L. Kratz, O. Arndt, B.A. Brown, J. Cederkall, I. Dillmann, L.M. Fraile, P. Hoff, A. Joinet, U. Köster, B. Pfeiffer, and the ISOLDE Collaboration  
Identification of shell model states in  $^{135}\text{Sb}$  populated via  $\beta$ -decay of  $^{135}\text{Sn}$   
*Phys. Rev.* C72 064321 (2005)

- J. Shergur, A. Wöhr, W.B. Walters, K.-L. Kratz, O. Arndt, B.A. Brown, J. Cederkall, I. Dillmann, L.M. Fraile, P. Hoff, A. Joinet, U. Köster, and B. Pfeiffer  
 Level structure of odd-odd  $^{134}\text{Sb}$  populated in the  $\beta$ -decays of  $^{134,135}\text{Sn}$   
*Phys. Rev. C* **71** (2005) 064321
- T. Siessmeier, Yun Zhou, H.-G. Buchholz, Ch. Landvogt, I. Vernaleken, M. Piel, R. Schirrmacher, F. Rösch, M. Schreckenberger, D. F. Wong, P. Cumming, G. Gründer, P. Bartenstein  
 Parametric mapping of the binding in human brain of D2-receptor ligands of different affinities  
*J. Nucl. Med.* **6**, 964-972 (2005)
- 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.*, 2005 submitted
- I. Vernaleken, C. Weibrich, Th. Siessmeier, H. G. Buchholz, F. Rösch, A. Heinz, P. Cumming, P. Stoeter, P. Bartenstein, G. Gründer  
 Asymmetry in dopamine D<sub>2/3</sub> receptors of caudate nucleus is lost with age  
*Neuroimage*, submitted
- W. B. Walters, M. A. Stoyer, J. Shergur, N. Hoteling, J. J. Ressler, J. Rikovska, K.-L. Kratz, A. Wöhr, B. Pfeiffer, O. Arndt, P. F. Mantica, B. Tomlin, H. Schatz, F. Montes, B. A. Brown, D. Seweryniak, H. Ravn, V. Fedoseyev, U. Köster, and the ISOLDE Collaboration, C. Y. Wu, D. Cline, H. Hua, A. B. Hayes, and R. Teng  
 Structure and Decay of Neutron-Rich Nuclides in the 115≤A≤138 Mass Range and r-Process Nucleosynthesis  
*Proc. Nuclei at the Limits*, eds. D. Seweryniak and Teng Lek Khoo, Argonne, IL, 26 – 30 July 2004;  
*AIP Conf. Proc.* **764**, 335 (2005)
- L. Weissman, A.F. Lisetskiy, O.Arndt, U. Bergmann, B.A. Brown, J. Cederkall, I. Dillmann, O. Hallmann, L. Fraile, S. Franchoo, L. Gaudefroy, U. Köster, K.-L. Kratz, B. Pfeiffer, O. Sorlin and the ISOLDE collaboration  
 Beta-decay of  $^{22}\text{O}$   
*J. Phys. G: Nucl. Part. Phys.* **31**, 553 (2005)
- K.D.A. Wendt, J. Blaum, C. Geppert, P. Müller, W. Nörtershäuser, A. Schmitt, P. Schumann, N. Trautmann, B.A. Bushaw  
 Laser Based Techniques for Ultra Trace Isotope Production Spectroscopy, and Detection  
*Hyperfine Interactions* **162**, 147 (2005)
- K. Wendt, N. Trautmann  
 Recent Developments in Isotope Ratio Measurement by Resonance Ionization Mass Spectrometry  
*Int. J. Mass Spectrometry* **242**, 161 (2005)
- 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*, 2005 im Druck
- K. J. Werhahn, H. G. Buchholz, S. Klimpe, C. Landvogt, W. Müller-Forell, I. Yakushev, S. Höhnemann, F. Rösch, M. Schreckenberger, P. Bartenstein  
 Dopamine D2/D3 receptor binding is reduced in the lateral temporal lobe of patients with mesial temporal lobe epilepsy  
*Neurology* **64**, (Suppl 1), A219 (2005)
- E.F. Worden, J. Blaise, M. Fred, N. Trautmann, J.-F. Wyart  
 Spectra and Electronic Structures of Free Actinide Atoms and Ions  
 The Chemistry of the Actinide and Transactinide Elements, 3<sup>rd</sup> Edition (J. J. Kratz, L. R. Morss, N. Edelstein, J. Fuger, eds.), Kluwer Academic Publishers, im Druck
- E. A. Yakushev, A. Kovalík, D. V. Filosofov, N. A. Korolev, N. A. Lebedev, A. V. Lubashevski, F. Rösch, A. F. Novgorodov  
 An experimental comparison of the K- and L-Auger electron spectra generated in the decays of  $^{140}\text{Nd}$  and  $^{111}\text{In}$   
*Appl. Radiat. Isot.* **62**, 451-456 (2005)
- K. Zhernosekov, P. Aschoff, D. Filosofov, M. Jahn, M. Jennewein, H.-J. Adrian, H. Bihl, F. Rösch  
 Visualisation of a somatostatin receptor-expressing tumour with  $^{67}\text{Ga}$ -DOTATOC SPECT  
*Eur. J. Nucl. Med. Mol. Imaging* **32**, 1129 (2005)