

Index of Volume 84 (1999)

Issue 1

- A. Fessler, S. M. Qaim*
Excitation Functions of $^{50}\text{Cr}(n, np + pn + d)^{49}\text{V}$, $^{58}\text{Ni}(n, \alpha)^{55}\text{Fe}$, $^{58}\text{Ni}(n, \alpha p + p\alpha)^{54}\text{Mn}$ and $^{62}\text{Ni}(n, \alpha)^{59}\text{Fe}$ Reactions 1
- M. Bertaux, A. Hanssens, C. Madic*
Alpha Spectrometric Determination of Trace Level of $^{239-240}\text{Pu}$ and ^{238}Pu in Uranium Compounds and Solutions 11
- G. Meinrath, Y. Kato, T. Kimura, Z. Yoshida*
Comparative Analysis of Actinide(VI) Carbonate Complexation by Monte Carlo Resampling Methods 21
- C. J. Anderson, G. R. Choppin, D. J. Pruett, D. Costa, W. Smith*
Electrochemistry and Spectroscopy of UO_2^{2+} in Acidic AlCl_3 -EMIC 31
- Y. S. Shin, M. C. Burleigh, Sheng Dai, C. E. Barnes, Z. L. Xue*
Investigation of Uranyl Adsorption on Mesoporous Titanium-based Sorbents 37
- A. Vahle, S. Hübener, H. Funke, B. Eichler, D. T. Jost, A. Türler, W. Brüchle, E. Jäger*
Gas Chromatographic Studies of Oxide and Hydroxide Species of Tungsten – Model Experiments with Respect to the Physico-Chemical Characterization of Seaborgium (Element 106). 43
- A. Maslennikov, M. Masson, V. Peretroukhine, M. Lecomte*
Technetium Electrodeposition from Aqueous Formate Solutions at Graphite Electrode: Electrochemical Study 53

Issue 2

- M. Faßbender, Yu. N. Shubin, S. M. Qaim*
Formation of Activation Products in Interactions of Medium Energy Protons with Na, Si, P, S, Cl, Ca and Fe 59

- W. Paulus, J. V. Kratz, E. Strub, S. Zauner, W. Brüchle, V. Pershina, M. Schädel, B. Schausten, J. L. Adams, K. E. Gregorich, D. C. Hoffman, M. R. Lane, C. Laue, D. M. Lee, C. A. McGrath, D. K. Shaughnessy, D. A. Strellis, E. R. Sylvester*
Chemical Properties of Element 105 in Aqueous Solution: Extraction of the Fluoride-, Chloride-, and Bromide Complexes of the Group-5 Elements into an Aliphatic Amine 69
- V. Pershina, T. Bastug*
Solution Chemistry of Element 105. Part III: Hydrolysis and Complex Formation of Nb, Ta, Db and Pa in HF and HBr Solutions 79
- W. Aas, E. Steinle, Th. Fanghänel, J. I. Kim*
Thermodynamics of Cm(III) in Concentrated Electrolyte Solutions. Fluoride Complexation in 0–5 m NaCl at 25°C 85
- R. S. Sidhu, P. Hoff*
Rapid Determination of Environmental Plutonium in Large Water Samples by Means of Manganese Dioxide Co-Precipitation and Extraction Chromatographic Separation 89
- P. Beneš, K. R. Czerwinski, J. Dolanský*
Effect of Humic Acid on the Electrophoretic Mobility of Uranium (VI) in Aqueous Solutions 95
- Chunli Liu, Shanggen, Luo, Yontxing, Zhang, Zhiming Wang, Shunshen Li, Yongjie Zhao, Shiwei Ni, Ling Jiang*
Migration of Radionuclides ^{85}Sr , ^{137}Cs and ^{60}Co in Unsaturated Chinese Loess – A Laboratory Simulation Experiment 101

Rapid Communication

- S. Kastleiner, H. H. Coenen, S. M. Qaim*
Possibility of Production of ^{67}Cu at a Small-Sized Cyclotron via the (p, α) -Reaction on Enriched ^{70}Zn . 107
- W. Hummel, M. A. Glaus, L. R. Van Loon*
Complexation of Radionuclides with Humic Substance: The Metal Concentration Effect 111

Issue 3

- Z. Qin, K. Tsukada, N. Shinohara, Y. L. Zhao,
I. Nishinaka, Y. Hatsukawa, S. Ichikawa, K. Hata,
Y. Nagame
Mass Yield Distributions in Proton-Induced Fission
of ^{248}Cm 115
- S. Hofmann
Synthesis and Properties of Superheavy Elements . 121
- J. K. Gibson
Gas-Phase Reactions of An^+ and AnO_n^+ [$\text{An} = \text{Th}$,
 U , Np , Pu , Am] with Halogenated Hydrocarbons
[$\text{C}_{14}\text{F}_{24}$, C_3F_6 , $\text{C}_2\text{H}_4\text{Cl}_2$ and $\text{C}_2\text{H}_4\text{Br}_2$] 135
- P. K. Mohapatra, A. K. Pandey, V. K. Manchanda
Facilitated Transport of Americium(III) from Nitric
Acid Media using 3-Phenyl-4-Benzoyl-5-Isoxazo-
lone and Tri-N-Octyl Phosphine Oxide in Dodecane
as the Carrier 147
- S. Sriram, R. Veeraraghavan, V. K. Manchanda
Synergistic Extraction of Uranium(VI) by Alamine
336 in the Presence of Neutral Oxodonor 153
- D. Rai, N. J. Hess, A. R. Felmy, D. A. Moore,
M. Yui
A Thermodynamic Model for the Solubility of
 $\text{NpO}_2(\text{am})$ in the Aqueous K^+ - HCO_3^- - CO_3^{2-} - OH^- -
 H_2O System 159
- M. M. Saeed, A. Rusheed
Production of no carrier-added ^{54}Mn using HTTA-
Loaded Polyurethane Foam 171

Issue 4

- M. H. Lee, C. W. Lee
Determination of Low Level ^{241}Pu in Environmen-
tal Samples by Liquid Scintillation Counting . . . 177

- P. Panak, S. Selenska-Pobell, S. Kutschke,
G. Geipel, G. Bernhard, H. Nitsche
Complexation of U(VI) with Cells of *Thiobacillus*
ferrooxidans and *Thiomonas cuprina* of Different
Geological Origin 183

- Hajimu Yamana, Tadahiro Kaibuki,
Hirotake Moriyama
Distribution Equilibrium of Lanthanides in the
Liquid-Liquid Extraction System of TBP and Mol-
ten $\text{Ca}(\text{NO}_3)_2 \cdot 4 \text{H}_2\text{O}$ 191

- Bernd Neumaier, Frank Rösch
Ternary Complex Formation of Lanthanides and
Radiolanthanides with Phosphate and Serum Pro-
teins 201

- Jacob A. Marinsky, Andrew Mathuthu,
James H. Ephraim, Michael M. Reddy
Calcium Ion Binding to a Soil Fulvic Acid Using a
Donnan Potential Model 205

- M. Khalid, A. Mushtaq, M. Z. Iqbal
Separation of ^{125}Sb from Neutron Irradiated Tin Us-
ing Silica Gel 213

- S. Merchel, U. Herpers
An Update on Radiochemical Separation Tech-
niques for the Determination of Long-Lived Radio-
nuclides via Accelerator Mass Spectrometry . . . 215

Rapid Communication

- K. Vercammen, M. A. Glaus, L. R. Van Loon
Evidence for the Existence of Complexes between
 $\text{Th}(\text{IV})$ and α -Isosaccharinic Acid under Alkaline
Conditions 221

- Author Index 225