

Contents

Vol. 49, No. 5, 2007

Simultaneous English language translation of the journal is available from Pleiades Publishing, Inc.
Distributed worldwide by Springer. *Radiochemistry* ISSN 1066-3622

Thorium–Uranium Fuel Cycle for Heat and Power Engineering <i>D. N. Suglobov, R. M. Yakovlev, and B. F. Myasoedov</i>	441
Lanthanides and Actinides among Other Groups of Elements of the Periodic Table <i>N. B. Mikheev, S. A. Kulyukhin, and I. V. Melikhov</i>	449
Crystal Structure of Complexes of Np(VI) and Pu(VI) Perchlorates with Triphenylphosphine Oxide, [NpO ₂ (OP(C ₆ H ₅) ₃) ₄](ClO ₄) ₂ and [PuO ₂ (OP(C ₆ H ₅) ₃) ₄](ClO ₄) ₂ <i>I. A. Charushnikova, N. N. Krot, Z. A. Starikova, and I. N. Polyakova</i>	464
Oxidation of U(VI) with Oxygen in Weakly Acidic and Neutral Solutions <i>V. P. Shilov, A. B. Yusov, A. M. Fedoseev, V. F. Peretrukhin, A. V. Gogolev, and C. H. Delegard</i>	470
Phase Equilibria in the Liquid Ternary System [Y(NO ₃) ₃ (TBP) ₃]–[UO ₂ (NO ₃) ₂ (TBP) ₂]–C ₁₄ H ₃₀ at Different Temperatures <i>V. A. Keskinov, V. V. Lishchuk, and A. K. Pyartman</i>	476
Phase Equilibria in the Liquid Ternary System [Th(NO ₃) ₄ (TBP) ₂]–[UO ₂ (NO ₃) ₂ (TBP) ₂]–Isooctane at Different Temperatures <i>A. K. Pyartman, V. A. Keskinov, V. V. Lishchuk, and Ya. A. Reshetko</i>	479
Extraction of Am, Eu, Tc, and Pd from Nitric Acid Solutions with Phosphorylated Calixarenes <i>I. V. Smirnov, M. D. Karavan, T. I. Efremova, V. A. Babain, S. I. Miroshnichenko, S. A. Cherenok, and V. I. Kal'chenko</i>	482
Reprocessing of Spent Solvent of the UNEX Process <i>E. K. Rzhekina, V. G. Karkozov, M. Yu. Alyapyshev, V. A. Babain, I. V. Smirnov, P. A. Todd, J. D. Law, and R. S. Herbst</i>	493
Sorption of Radioiodine from Aqueous Solutions on Layered Double Magnesium Aluminum Hydroxides at 300 K <i>S. A. Kulyukhin, E. P. Krasavina, I. A. Rumer, L. V. Mizina, and N. A. Konovalova</i>	499
Uranium Sorption from Nitric Acid Solutions with Cation Exchangers and Polyampholytes <i>V. N. Rychkov and L. V. Norkina</i>	504
Preconcentration of Uranium on POLIORGS 34-n Fibrous Filled Sorbent from Natural Waters <i>G. V. Myasoedova, N. P. Molochnikova, and E. A. Zakharchenko</i>	507
Asymmetric Synthesis of 6- ¹⁸ F-L-FDOPA Using Chiral Nickel(II) Complexes <i>R. N. Krasikova, O. F. Kuznetsova, O. S. Fedorova, I. K. Mosevich, V. I. Maleev, Yu. N. Belokon', T. F. Savel'eva, A. S. Sagyan, S. A. Dadayan, and A. A. Petrosyan</i>	512
Application of Radiotracer Technique to Study the Ion–Isotope Exchange Reactions Using a Strongly Basic Anion-Exchange Resin Duolite A-113 <i>R. S. Lokhande, P. U. Singare, and M. H. Dole</i>	519
Interaction of Cesium with Humic Materials: A Comparative Study of Radioactivity and ISE Measurements <i>A. A. Helal, H. A. Arida, H. E. Rizk, and S. M. Khalifa</i>	523
⁶⁰ Co Speciation in Bottom Sediments of the Chazhma Bay of the Sea of Japan <i>V. A. Goryachev and A. A. Isaeva</i>	530

Radionuclides in Ground Waters from Observation Holes in the Shelter Local Area

A. A. Odintsov, V. E. Khan, V. A. Krasnov, and E. M. Pazukhin

534

Coprecipitation of Radium with Barium Sulfate from Salt Solutions

Yu. P. Kudryavskii and O. V. Rakimova

541

Distribution of Natural Radionuclides throughout Intermediate Products from Chlorination
of Loparite Concentrate

Yu. P. Kudryavskii, O. V. Rakimova, S. M. Grashchenko, A. Yu. Dernov, and N. I. Polezhaev

545
