

Contents

Vol. 55, No. 4, 2013

A simultaneous English language translation of this journal is available from Pleiades Publishing, Inc.

Distributed worldwide by Springer. *Radiochemistry* ISSN 1066-3622

Molecular Anions of Uranium Fluorides and Oxides: First Principle Based Relativistic Calculations <i>A. V. Zaitsevskii</i>	353
Reaction of Ozone with Np(V) and Np(IV) in Carbonate Solutions <i>V. P. Shilov and A. M. Fedoseev</i>	357
Complexation of Tetravalent Actinides (Th, U, Np, Pu) with 2,6-Pyridinedicarboxylic Acid in Aqueous Solutions <i>A. B. Yusov and A. M. Fedoseev</i>	360
Role of Peroxynitrite in Oxidation of <i>f</i> -Element Ions in HNO ₃ Solutions <i>V. P. Shilov and A. M. Fedoseev</i>	366
Extraction of Nitric Acid and Uranyl Nitrate with Tributyl Phosphate in Diluent in the Presence of Salting-out Agents and Its Mathematical Description <i>E. A. Puzikov, I. V. Blazheva, B. Ya. Zilberman, Yu. S. Fedorov, A. S. Kudinov, N. V. Ryabkova, A. V. Sysoeva, N. D. Goletskii, Ya. V. Biragova, and A. Yu. Shadrin</i>	369
Synergistic Extraction of Rare Earth Elements from HNO ₃ Solutions with a Mixture of CCD and HDBP in a Polar Diluent <i>D. N. Shishkin and N. K. Petrova</i>	377
Extraction of REEs(III), U(VI), and Th(IV) from Nitric Acid Solutions with Carbamoylmethylphosphine Oxides in the Presence of an Ionic Liquid <i>A. N. Turanov, V. K. Karandashev, and A. N. Yarkevich</i>	382
Recovery of ⁶⁰ Co from EDTA-Containing Aqueous Solutions <i>A. F. Seliverstov, Yu. O. Lagunova, V. V. Milyutin, and B. G. Ershov</i>	388
Acid–Base and Sorption Properties of Amorphous Titanium Phosphate <i>M. V. Maslova, A. S. Chugunov, L. G. Gerasimova, and N. V. Konovalova</i>	392
Influence of the Concentrations of Potassium, Sodium, and Ammonium Ions on the Cesium Sorption with Mixed Nickel Potassium Ferrocyanide Sorbent Based on Hydrated Titanium Dioxide <i>A. V. Voronina and V. S. Semenishchev</i>	399
Thermal Decomposition of CH ₃ ¹³¹ I in a Gas Flow <i>S. A. Kulyukhin, L. V. Mizina, I. A. Rumer, and N. A. Konovalova</i>	404
Isolation of Radionuclides from Thorium Targets Irradiated with 300-MeV Protons <i>D. V. Filosofov, A. V. Rakhimov, G. A. Bozhikov, D. V. Karaivanov, N. A. Lebedev, Yu. V. Norseev, and I. I. Sadikov</i>	410
Synthesis of ^{99m} Tc-Erythromycin Complex as a Model for Infection Sites Imaging <i>I. Y. Abdel-Ghaney and M. H. Sanad</i>	418
Labeling of Tannic Acid with Technetium-99m for Diagnosis of Stomach Ulcer <i>I. T. Ibrahim, M. El-Tawoosy, and H. M. Talaat</i>	423
Use of Polymeric Materials as a Solid Phase for Radioimmunoassay and Immunoradiometric Assay Techniques <i>S. M. Ayoub, K. F. Allan, and N. H. Ebeid</i>	428

Immobilization of Salts of Radioactive Bottom Residues in Glass–Ceramic Matrices <i>L. N. Puzyrnaya, S. A. Kobets, and G. N. Pshinko</i>	436
Diffusion of Lanthanum into Single-Phase Sodium Zirconium Phosphate Matrix for Nuclear Waste Immobilization <i>A. Bohre and O. P. Shrivastava</i>	442
Chemical Endurance of Polymeric Compounds Containing Radioactively Contaminated Spent Vacuum Oil <i>T. S. Volkova, I. G. Tananaev, V. S. Volkov, and O. M. Slyunchev</i>	450
Radiological Characterization and Treatment of Contaminated Phosphogypsum Waste <i>H. El-Didamony, M. M. Ali, N. S. Awwad, M. F. Attallah, and M. M. Fawzy</i>	454
