

Contents

Vol. 52, No. 2, 2010

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

Kinetics and Mechanisms of Redox Reactions of U, Pu, and Np in Tributyl Phosphate Solutions <i>V. I. Marchenko, V. S. Koltunov, and K. N. Dvoeglazov</i>	111
Processes for Preparing Mixed Oxides, as Applied to Conditions of Spent Nuclear Fuel Reprocessing without Complete Separation of U and Pu <i>D. N. Bykhovskii, M. A. Kuz'mina, and G. S. Novikov</i>	127
Synthesis and Study of Uranyl Phosphates $(\text{UO}_2)_3(\text{PO}_4)_2 \cdot n\text{H}_2\text{O}$ <i>N. G. Chernorukov, O. V. Nipruk, A. V. Knyazev, and Yu. P. Pykhova</i>	133
Synthesis and Crystal Structure of New U(VI) and Np(VI) Benzoates, $\text{K}_{11}(\text{AnO}_2)_{23}(\text{OOC}_6\text{H}_5)_{57}(\text{H}_2\text{O})_{18+x}$ <i>I. A. Charushnikova, M. S. Grigor'ev, and N. N. Krot</i>	138
Crystal and Molecular Structures of Tricarbonyltechnetium Acetylacetonate and Its Adduct with Diethylamine <i>G. V. Sidorenko, M. S. Grigor'ev, V. V. Gurzhiy, S. V. Krivovichev, A. E. Miroslavov, and D. N. Suglov</i>	145
Thermal Reduction of U(VI) in Laser Liquids Based on Phosphorus Oxychloride <i>G. V. Tikhonov and A. S. Chernyshov</i>	152
Reduction of U(VI) in Laser Liquids Based on Phosphorus Oxychloride in the Course of Prolonged Storage <i>G. V. Tikhonov</i>	158
Influence of Temperature on the Lifetime of Electronically Excited Uranyl Ion: IV. Effect of Isotope Enrichment in Low-Temperature Crystallization of Partially Deuterated Aqueous Solutions of Sulfuric Acid <i>S. V. Lotnik, L. A. Khamidullina, and V. P. Kazakov</i>	164
Galvanochemical Treatment of Solutions from Nitric Acid Process of Uranium Refining <i>Yu. V. Ostrovskii, G. M. Zabortsev, A. B. Aleksandrov, A. L. Khlytin, and A. V. Manych</i>	171
Formation of Molybdenum and Zirconium Precipitates in Concentrated Uranyl Nitrate Solutions <i>I. V. Khonina, A. A. Lumpov, A. Yu. Shadrin, B. Ya. Zilberman, and N. G. Kravchenko</i>	175
Extraction of Molybdenum from Supersaturated Solutions in Nitric Acid with Tributyl Phosphate Solutions <i>N. D. Goletskii, L. G. Mashirov, B. Ya. Zilberman, Yu. S. Fedorov, D. V. Ryabkov, M. N. Makarychev-Mikhailov, E. A. Puzikov, and I. V. Blazheva</i>	180
Antagonism in Extraction of Cesium with 18-Crown-6 and Phosphine Oxides from Aqueous Perchlorate Solution <i>S. Banerjee, P. Dey, and S. Basu</i>	189
Conversion of I_2 into Ionic Species on Composite Materials in the NPP Primary Coolant <i>S. A. Kulyukhin, L. V. Mizina, A. A. Tishina, I. A. Rumer, and E. P. Krasavina</i>	193
Autoradiographic Method for Studying the Distribution of α -Emitters in Mollusk Shells <i>V. A. Nikolaev, M. A. Zuikov, and A. V. Gromov</i>	201
Development of a Procedure for Preparing ^{103}Pd -Microspheres of Human Blood Albumin, a Potential Radiopharmaceutical for Treatment of Malignant Tumors <i>V. M. Petriev, V. K. Shiryayev, L. A. Smakhtin, and V. G. Skvortsov</i>	207

Preparation of Radioiodo-Metoprolol and Its Biological Evaluation as a Possible Cardiac Imaging Agent <i>I. T. Ibrahim, A. M. Amin, and K. M. El-Azony</i>	212
Retrospective Estimation of the Contamination of Lake Onega with Global ^{90}Sr and of Natural Decontamination of Its Water <i>N. A. Bakunov, D. Yu. Bol'shiyanov, and A. S. Makarov</i>	217
Vitalii Grigor'evich Khlopin (1890–1950): Chemist, Radiochemist, Geochemist (to 120th Birthday Anniversary) <i>I. A. Maslennikov, V. N. Romanovskiy, G. V. Sidorenko, and L. G. Tsaritsyna</i>	222
