

Contents

Vol. 60, No. 5, 2018

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

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

Physicochemical Properties of Bivalent <i>f</i> Elements in the Gas Phase, Solid Matrices, Melts, and Solutions <i>S. A. Kulyukhin</i>	451
Extraction of Radionuclides from Alkaline and Carbonate Media <i>I. V. Smirnov, M. D. Karavan, M. V. Logunov, I. G. Tananaev, and B. F. Myasoedov</i>	470
Stereochemistry of Bk, Cf, and Es in Oxygen-Containing Compounds <i>L. B. Serezhkina and V. N. Serezhkin</i>	488
Synthesis and Crystal Structures of New Layered Uranyl Compounds Containing Dimers [(UO ₂) ₂ O ₈] of Edge-Linked Pentagonal Bipyramids <i>E. V. Nazarchuk, D. O. Charkin, O. I. Siidra, and V. V. Gurzhiy</i>	498
Synthesis, Structure, and Spectral Properties of Mixed Uranyl Hydroxonitrate Complexes [(CH ₃) ₄ N] ₂ [(UO ₂) ₂ (NO ₃) ₄ (OH) ₂] and (HMeIm) ₂ [(UO ₂) ₂ (NO ₃) ₄ (OH) ₂] (MeIm = 1-Methylimidazole) <i>A. A. Shiryaev, A. M. Fedoseev, M. S. Grigor'ev, and A. A. Averin</i>	507
Complexes of An(VI) with Cyclobutanecarboxylic Acid Anions and Outer-Sphere Alkali Metal Cations <i>M. S. Grigor'ev, I. A. Charushnikova, and A. M. Fedoseev</i>	514
Synthesis and Structure of the Np(VII) Complex with Guanidinium, Li[C(NH ₂) ₃] ₂ [NpO ₄ (OH) ₂]·6H ₂ O <i>I. A. Charushnikova, N. N. Krot, and V. P. Perminov</i>	521
Electrolytic Method for Preparing Chemically Resistant Alloys for Americium Immobilization <i>V. V. Ivanov and I. B. Popov</i>	527
Oxidation of Np(V) with Xenon Trioxide in an HClO ₄ Solution <i>V. P. Shilov, A. M. Fedoseev, and A. V. Gogolev</i>	531
Modeling of the Activities of Uranyl Nitrate and Nitric Acid in Mixed Solutions <i>A. V. Ochkin, A. O. Merkushev, S. Yu. Nekhaevskii, and D. Yu. Gladilov</i>	534
Choice of the Optimum Composition of the Solution Fuel for a Homogeneous Reactor and of Termoxid Sorbent for Recovering ⁹⁹ Mo <i>E. I. Denisov and N. D. Betenkov</i>	541
Separation of Carrier-Free ^{115m} In from Its Parent ¹¹⁵ Cd Using the Synthesized TODGA-Impregnated Silica Gel <i>M. Mandal, S. Dhara, and S. Basu</i>	548
Radionuclide Diagnostics of the Sorption Using the ²²⁴ Ra Subfamily and α -Ray Spectrometry <i>N. D. Betenkov</i>	552
Radionuclides in Irradiated Graphite of Uranium–Graphite Reactors: Decontamination of Sleeves Using Liquid Reagents <i>A. G. Volkova, E. V. Zakharova, A. O. Pavlyuk, and A. A. Shiryaev</i>	558
