

Contents

Vol. 60, No. 4, 2018

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

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

Stereochemistry of Americium and Curium in Oxygen-Containing Compounds <i>V. N. Serezhkin and L. B. Serezhkina</i>	335
Crystal-Chemical Features of U(VI) Compounds with Inorganic Complexes Derived from $[(\text{UO}_2)(\text{TO}_4)(\text{H}_2\text{O})_n]$, $T = \text{S, Cr, Se}$: Synthesis and Crystal Structures of Two New Uranyl Sulfates <i>E. V. Nazarchuk, D. O. Charkin, O. I. Siidra, and V. V. Gurzhiy</i>	345
Specific Features of the Crystal Chemistry of Layered Uranyl Compounds with the Ratio $\text{UO}_2 : \text{TO}_4 = 5 : 8$ ($T = \text{S}^{6+}, \text{Cr}^{6+}, \text{Se}^{6+}, \text{Mo}^{6+}$) <i>E. V. Nazarchuk, O. I. Siidra, and D. O. Charkin</i>	352
Synthesis of High-Density Pellets of Uranium Dioxide by Spark Plasma Sintering in Dies of Different Types <i>E. K. Papyrov, O. O. Shichalin, A. Yu. Mironenko, A. V. Ryakov, I. V. Manakov, P. V. Makhrov, I. Yu. Buravlev, I. G. Tananaev, V. A. Avramenko, and V. I. Sergienko</i>	362
Development of a Mathematical Model for Denitration of Actinide Nitrates under the Action of UHF Radiation <i>I. S. Nadezhdin, A. G. Goryunov, S. N. Liventsov, and O. V. Shmidt</i>	371
Extraction of Long-Lived Radionuclides from High-Level Alkaline Waste with <i>p</i> -Alkylcalix[8]arene <i>N. M. Ivenskaya, E. S. Stepanova, M. V. Logunov, and I. V. Smirnov</i>	378
Sorption of Molybdenum onto Titanium Hydroxide <i>E. I. Denisov and N. D. Betenekov</i>	386
Removal of Radiocesium from Aqueous Media with Zinc–Aluminum Layered Double Hydroxide Intercalated with Copper(II) Hexacyanoferrate <i>G. N. Pshinko, L. N. Puzyrnaya, V. S. Shunkov, A. A. Kosorukov, and V. Ya. Demchenko</i>	395
Novel Magnetic Cobalt Cyanoferrate Nanoparticles as Potential Sorbent for Solid-Phase Extraction of Radionuclides from Aqueous Samples <i>L. Fuks, D. Wawrszczak, T. Smolinski, I. Herdzik-Koniecko, and A. G. Chmielewski</i>	400
Chemical-Spectroscopic Determination of the Isotope Composition and Gravimetric Content of Uranium in Uranium–Aluminum Alloys and Products of Their Processing <i>M. I. Khamdeev, O. N. Vasil'eva, and E. A. Erin</i>	409
$^{172}\text{Hf} \rightarrow ^{172}\text{Lu}$ Radionuclide Generator Based on a Reverse-Tandem Separation Scheme <i>J. A. Dadakhanov, N. A. Lebedev, A. I. Velichkov, D. V. Karaivanov, A. E. Baimukhanova, N. T. Temerbulatova, and D. V. Filosofov</i>	415
Immunoradiometric Assay for In Vitro Determination of Prostate Specific Antigen (PSA) in Human Serum Using Solid Phase Anti-PSA Coated Tubes <i>A. S. A. El-Bayoumy, Kh. M. Sallam, and N. L. Mehany</i>	427
Aluminum (Iron) Phosphate Glasses Containing Rare Earth and Transuranium Elements: Phase Composition, Oxidation State of Np and Pu, and Hydrolytic Durability <i>S. S. Danilov, S. V. Stefanovsky, O. I. Stefanovskaya, S. E. Vinokurov, B. F. Myasoedov, and Yu. A. Teterin</i>	434
Behavior of U(VI) under the Conditions of a Reservoir Bed for Liquid Radioactive Waste <i>I. V. Gusev, A. Yu. Romanchuk, I. E. Vlasova, E. V. Zakharova, A. G. Volkova, and S. N. Kalmykov</i>	440
Physicochemical and Radiation Hazardous Properties of Scale TENORM Waste: Evaluation by Different Analytical Techniques <i>M. A. Hilal, H. M. Abdelbary, and G. G. Mohamed</i>	444
