

Contents

Vol. 60, No. 6, 2018

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

Influence of the Redox Potential and Charge of <i>f</i> Element Ions on the Kinetics of Reactions Involving Them <i>V. P. Shilov, A. V. Gogolev, and A. M. Fedoseev</i>	563
New Compounds of Some Trivalent Lanthanides and Actinides with Furancarboxylic Acid. Synthesis, Structure, and Absorption Spectra of the Complexes $[(\text{NH}_2)_3\text{C}]_2[\text{M}(\text{OOCCH}_2\text{CH}_2\text{O})_5]$ (M = La, Ce, Pr, Nd, Tb, Np, Pu, Am) <i>A. M. Fedoseev, M. N. Sokolova, M. S. Grigor'ev, and N. A. Budantseva</i>	573
Kinetics of Np(VI) Reduction with Diformylhydrazine in Nitric Acid <i>K. N. Dvoeglazov, E. Yu. Pavlyukevich, and P. V. Mitrikas</i>	581
Kinetics of Pu(VI) Reduction with Diformylhydrazine in Nitric Acid <i>K. N. Dvoeglazov, E. Yu. Pavlyukevich, and P. V. Mitrikas</i>	588
Effect of Irradiation on the Dynamics of Gas Evolution in Thermal Oxidation of Diamide Extractants in F-3 Diluent <i>I. V. Skvortsov, E. V. Belova, Yu. S. Pavlov, and B. F. Myasoedov</i>	595
Thermal Stability of Extractants Based on Diamides of Heterocyclic Carboxylic Acids <i>I. V. Skvortsov, V. V. Kalistratova, A. V. Rodin, E. V. Belova, B. F. Myasoedov, N. E. Borisova, and D. A. Tsarev</i>	601
Extraction of REE(III), U(VI), and Th(IV) from Nitric Acid Solutions with Carbamoylmethylphosphine Oxides in the Presence of Dinonylnaphthalenesulfonic Acid <i>A. N. Turanov, V. K. Karandashev, and A. N. Yarkevich</i>	607
A New Method for Removing and Binding Th(IV) and Other Radionuclides by In Situ Formation of a Sorbent Based on Fibrous Cerium(IV) Hydrogen Phosphate in Liquid Media <i>A. Yu. Romanchuk, T. O. Shekunova, V. G. Petrov, A. E. Baranchikov, O. S. Ivanova, Kh. E. Erova, V. K. Ivanov, and S. N. Kalmykov</i>	613
Sorption of U(VI) onto $\text{TiO}_2/\text{ZrO}_2/\text{SiO}_2$ Mesoporous Materials from Sulfate Solutions <i>V. V. Zheleznov, V. Yu. Maiorov, N. V. Polyakova, V. E. Silant'ev, T. A. Sokol'nitskaya, Yu. V. Sushkov, and E. I. Voit</i>	618
Intricacies of the Determination of the Radiochemical Purity of ^{68}Ga Preparations: Possibility of Sorption of Ionic ^{68}Ga Species on Reversed-Phase Columns <i>A. A. Larenkov, A. Ya. Maruk, and G. E. Kodina</i>	625
Radioiodination of Cellex [®] <i>B. K. Kudelin, S. A. Rodionov, E. A. Bozhko, and L. S. Lavrent'eva</i>	634
Preclinical Evaluation of Radioiodinated Quinoxaline Derivative as a Possible Brain Imaging Agent <i>I. T. Ibrahim, H. M. Talaat, R. A. Ayad, and K. Farah</i>	638
Phase Composition, Structure, and Hydrolytic Durability of a Uranium-Containing Magnesium Potassium Phosphate Compound <i>S. E. Vinokurov, S. A. Kulikova, K. Yu. Belova, A. A. Rodionova, and B. F. Myasoedov</i>	644
Leaching of Radioactive Waste Surrogates from a Glassy Matrix and Migration of the Leaching Products in Gneisses <i>V. I. Malkovsky, S. V. Yuditsev, and E. V. Aleksandrova</i>	648
Radionuclides in Irradiated Graphite of Uranium–Graphite Reactors: Decontamination by Thermochemical Methods <i>A. G. Volkova, E. V. Zakharova, N. I. Rodygina, A. O. Pavlyuk, and A. A. Shiryayev</i>	657

Radionuclides in Irradiated Graphite of Industrial Uranium–Graphite Reactors: Effect of Irradiation and Thermochemical Treatment on the Graphite Structure <i>A. A. Shiryayev, A. G. Volkova, E. V. Zakharova, M. S. Nikolsky, A. A. Averin, E. A. Dolgopolova, and V. O. Yapaskurt</i>	664
Speciation of Thorium Isotopes in Water, Bottom Sediments, and Soils in the Region of the Former Radium Extraction Plant <i>N. G. Rachkova, L. M. Shaposhnikova, and I. I. Shuktomova</i>	672
Leaching of Uranium from Its Mineralization and Experimental Design of the Process <i>Y. M. Khawassek</i>	678
