

Contents

Vol. 52, No. 5, 2010

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

Refinement of the Energy Characteristics of ^{213}Bi α -Radiation <i>A. S. Bolonkin</i>	455
A Crystal-Chemical Approach in the Development of Phosphate Materials as Environmentally Safe Chemical Forms of Utilization of Spent Cs-Containing Ferrocyanide Sorbents <i>A. I. Orlova, E. E. Loginova, A. A. Logacheva, V. T. Demarin, O. V. Shmidt, and A. Yu. Nikolaev</i>	462
Kinetics of UO_3 Dissolution in Nitric Acid Saturated 30% TBP in a Hydrocarbon Diluent <i>F. A. Dorda, V. V. Lazarchuk, V. A. Matyukha, M. V. Sirotkina, and V. V. Tinin</i>	469
Diffusion of Americium in Aqueous Solutions <i>V. V. Ivanov and I. B. Popov</i>	472
Phase Diagrams of the Ternary Liquid Systems $[\text{Ce}(\text{NO}_3)_3(\text{TBP})_3]-\text{C}_{10}\text{H}_{22}-[\text{UO}_2(\text{NO}_3)_2(\text{TBP})_2]$ and $[\text{Ce}(\text{NO}_3)_3(\text{TBP})_3]-\text{C}_{10}\text{H}_{22}-[\text{Th}(\text{NO}_3)_4(\text{TBP})_2]$ and of the Quaternary Liquid System $[\text{Ce}(\text{NO}_3)_3(\text{TBP})_3]-\text{C}_{10}\text{H}_{22}-[\text{UO}_2(\text{NO}_3)_2(\text{TBP})_2]-[\text{Th}(\text{NO}_3)_4(\text{TBP})_2]$ <i>A. K. Pyartman and A. A. Kopyrin</i>	476
Physicochemical Analysis of the Phase Diagrams of Ternary Liquid Systems Hydrocarbon Diluents- $[\text{Th}(\text{NO}_3)_4(\text{TBP})_2]$ -Tri- <i>n</i> -butyl Phosphate <i>A. K. Pyartman and A. A. Kopyrin</i>	481
Kinetics of Thorium(IV) Nitrate Extraction at Various Temperatures from Aqueous Salt Solutions with a Composite Material Based on a Polymeric Support and Trialkylmethylammonium Nitrate <i>A. K. Pyartman and A. A. Kopyrin</i>	487
Preconcentration of Sr(II) by Extraction and Sorption with Carbamoyl Phosphine Oxides in the Presence of Ionic Liquids <i>A. N. Turanov, V. K. Karandashev, V. E. Baulin, and S. V. Nosenko</i>	491
Application of a Semicountercurrent Extraction Method to Waste Solution Treatment <i>G. V. Kostikova, N. A. Danilov, A. Yu. Tsivadze, Yu. S. Krylov, G. V. Korpusev, and E. V. Sal'nikova</i>	497
Specific Features of the Flow of a Two-Phase Stream in a Grainy Bed of a Separator <i>V. I. Volk, S. N. Veselov, A. A. Zhrebtsov, and D. V. Zverev</i>	502
Specific Features of Mass Exchange in the Flow of a Two-Phase Stream in a Grainy Bed of a Separator <i>V. I. Volk, S. N. Veselov, A. A. Zhrebtsov, and V. N. Rubisov</i>	506
Behavior of Microconcentrations of Radionuclides in Displacement Complexing Chromatographic Systems <i>O. V. Kharitonov, L. A. Firsova, and V. M. Gelis</i>	512
Recovery of ^{131}I and ^{137}Cs from a Solution Simulating NPP Trap Waters <i>S. A. Kulyukhin, N. A. Kononova, I. A. Rumer, M. P. Gorbacheva, and L. V. Mizina</i>	515
Solubility and Coprecipitation of Barium and Strontium Nitrates in HNO_3 Solutions and Multicomponent Systems <i>N. E. Mishina, A. A. Akhmatov[†], B. Ya. Zilberman, A. Yu. Shadrin, and E. I. Solyarskaya</i>	523
Reduction of Radioactive Waste Volume Using Selective Crystallization Processes <i>D. N. Bykhovskii[†], T. I. Kol'tsova, and E. M. Roshchinskaya</i>	530
Effect of Crystallization on the Hydrolytic Stability of Basalt-Like Matrices with Actinides <i>I. B. Popov, V. V. Ivanov, D. G. Kuznetsov, and B. G. Ershov</i>	537

Radiochemical Analysis of Potable Water from Some Underground Sources of Leningrad Oblast <i>G. A. Skorobogatov, S. A. Timofeev, V. I. Kuzin, M. V. Kaduka, N. S. Shvydko, and Yu. N. Goncharova</i>	542
Remote Examination of Radioactive Wastes Using γ -Ray Spectrometry <i>K. E. Ivanov, N. N. Ponomarev-Stepnoi, B. S. Stepennov, Yu. A. Teterin, A. Yu. Teterin, and V. V. Kharitonov</i>	550
Solid-Phase Catalytic Reactions of Tritium with Carbohydrates: 4. Mechanism of Isomerization of <i>D</i> -Glucose in the Course of Solid-Phase Catalytic Hydrogenation with Tritium <i>A. A. Baitov, G. V. Sidorov, and N. F. Myasoedov</i>	556
γ -Irradiation: A Simple Route for Isomerization of Geraniol into Nerol and Linalool <i>P. Srivastava, R. S. Wagh, and D. G. Naik</i>	561
High Cadmium-109 Recovery from a Dissolved Silver Target Solution Using Dowex 1 $\times$ 8 Anion-Exchange Resin <i>M. Sadeghi, M. Mirzaii, Z. Gholamzadeh, P. Sarabadani, and A. Sattari</i>	565
To the 70th Birthday Anniversary of Professor Aleksei Alekseevich Kopyrin	570
