

Contents

Vol. 46, No. 6, 2004

Simultaneous English language translation of the journal is available from MAIK "Nauka/Interperiodica" (Russia).
Distributed worldwide by Springer Science + Business Media, Inc. *Radiochemistry* ISSN 1066-3622

Lower Oxidation States of <i>f</i> Elements: II. Physicochemical Characteristics of Actinides and Lanthanides in Lower Oxidation States	
<i>N. B. Mikheev, S. A. Kulyukhin, A. N. Kamenskaya, I. A. Rumer, and N. A. Konovalova</i>	521
"Pattern Recognition" from the UL Emission Spectra as a Method for Identifying the Likeness and Difference of Uranium State in Compounds	
<i>L. L. Makarov and A. A. Solomennikov</i>	536
An XPS Study of Interaction of Neptunyl(V) in Aqueous Solution with Goethite (α -FeOOH)	
<i>Yu. A. Teterin, S. N. Kalmykov, A. P. Novikov, Yu. A. Sapozhnikov, L. Dj. Vukcevic, A. Yu. Teterin, K. I. Maslakov, I. O. Utkin, A. B. Khasanova, and N. S. Shcherbina</i>	545
Electrochemical Synthesis and Physicochemical Study of Lanthanum(III) Acetylacetonate Complexes	
<i>N. N. Kostyuk, T. A. Dik, N. V. Tereshko, and A. G. Trebnikov</i>	552
Crystal Structure of U(VI) Phthalate Dihydrate $[\text{UO}_2(\text{OOC})_2\text{C}_6\text{H}_4 \cdot \text{H}_2\text{O}] \cdot \text{H}_2\text{O}$	
<i>I. A. Charushnikova, N. N. Krot, and Z. A. Starikova</i>	556
Synthesis of New Crystalline Pu(V) Compounds from Solutions: I. Structure and Characteristics of a Double Pu(V) Phthalate with $[\text{Co}(\text{NH}_3)_6]^{3+}$ in the Outer Sphere	
<i>N. N. Krot, A. A. Bessonov, M. S. Grigor'ev, I. A. Charushnikova, and V. I. Makarenkov</i>	560
Crystal Structure of a Double Np(V) and $\text{Co}(\text{NH}_3)_6^{3+}$ Maleate, $\text{Co}(\text{NH}_3)_6[\text{NpO}_2(\text{HL})_2(\text{H}_2\text{O})_3](\text{HL})_2 \cdot \text{H}_2\text{O}$ [$\text{L} = \text{OOC}(\text{HC})_2\text{COO}$]	
<i>I. A. Charushnikova, N. N. Krot, and Z. A. Starikova</i>	565
Precipitation of Am(III) and REE Peroxides from Alkaline Solutions Containing Complexing Agents	
<i>A. V. Gogolev, M. V. Nikonov, I. G. Tananaev, and B. F. Myasoedov</i>	570
Behavior of Np(VII, VI, V) in Silicate Solutions	
<i>V. P. Shilov, A. M. Fedoseev, A. B. Yusov, and C. H. Delegard</i>	574
Catalytic Decomposition of Hydrazine in Weakly Alkaline Solutions on Platinum Nanoparticles	
<i>A. V. Anan'ev, M. Yu. Boltoeva, N. L. Sukhov, G. L. Bykov, and B. G. Ershov</i>	578
Behavior of UO_2 in a Room-Temperature Ionic Liquid in the Presence of AlCl_3	
<i>V. V. Smolenskii, A. L. Bove, N. P. Borodina, A. V. Bychkov, and A. G. Osipenko</i>	583
Complexation of Polyethylene Glycol with Sr^{2+} and Ba^{2+} Cations in Extracts Containing Chlorinated Cobalt Dicarbolide	
<i>E. S. Stoyanov, I. V. Smirnov, V. A. Babain, N. G. Antonov, D. Peterman, R. S. Herbst, T. A. Todd, and T. A. Luther</i>	587
Effect of Temperature on Solubility in Liquid Ternary Systems Tetradecane–Normal Carboxylic Acids (or Higher Isomers of α, α' -Branched Carboxylic Acids)–Neodymium Nitrate Solvate with Tri- <i>n</i> -butyl Phosphate	
<i>A. K. Pyartman, A. V. Kudrova, and V. A. Keskinov</i>	593
Multistage Extraction Separation of Am(III) and Cm(III) in Planet Centrifuges	
<i>T. A. Maryutina, M. N. Litvina, D. A. Malikov, B. Ya. Spivakov, B. F. Myasoedov, M. Lecomte, C. Hill, and C. Madic</i>	596
Uranium Sorption from Sulfate–Fluoride Solutions on Amino Carboxylic Polyampholytes	
<i>V. N. Rychkov and A. P. Tsevin</i>	603

A Sorption–Filtration Material for Recovery of Radioactive Iodine from Gaseous Aerosol Exhausts <i>V. I. Kornienko, N. I. Ampelogova, and V. I. Krupennikova</i>	607
Current Radiation Situation in Near Area of Air Nuclear Explosion Conducted at Totskoe Testing Ground (Orenburg oblast) on September 14, 1954 <i>Yu. V. Dubasov, V. A. Trifonov, S. M. Arshanskii, N. V. Skovorodkin, and E. A. Smirnova</i>	612
Author Index to Volume 46, 2004	618
Contents of Volume 46, 2004	622
