



## STATISTICAL STUDY ON THE DISTRIBUTION RATIO OF U(VI) AND U(IV) SPECIES IN SEVERAL ROMANIAN URANIUM ORES

Marian E. Răileanu<sup>1</sup>, Gabriel Barbir<sup>2</sup>, Alexandru Cecal<sup>1\*</sup>

<sup>1</sup>*"Al. I. Cuza" University of Iași, Faculty of Chemistry, Department of Inorganic and Analytical Chemistry, 11 – Carol I, Blvd. 700506, Iași, Romania*

<sup>2</sup>*Uranium National Company, Suceava Branch, Crucea, Romania.*

---

### Abstract

This paper deals with a statistical treatment applied to the determination of U(VI)/U(IV) ratio in some uranium ores, depending on the pH and humidity samples taken out directly from a uranium mine. The concentrations of different uranium species were determined spectrophotometrically. Some statistical parameters were calculated for a subsequent statistical interpretation of the experimental data.

*Keywords:* uranium, uranium-bearing ore, U(VI), U(IV) species, uranium geochemistry, sampling, statistical study

---

---

\* Author to whom all correspondence should be addressed: [acecal@ch.tuiasi.ro](mailto:acecal@ch.tuiasi.ro)