

Role of natural organic substances in colloidal transport of platinum and palladium

I. Ya. Koshcheeva, O. A. Tyutyunnik, D. N. Chkhetia, L. V. Krigman, I. V. Kubrakova
V. I. Vernadsky Institute of Geochemistry and Analytical Chemistry RAS, Moscow

kubrakova@geokhi.ru, NMlab@geokhi.ru

In order to study a migration behavior of platinum group metals (PGM) in natural water systems, the sorption of dissolved chloro- and hydroxochloro complexes of platinum (IV) and palladium (II) by major components of suspensions and bottom sediments (humic acids, iron oxyhydroxides (FeOOH) and aluminosilicates (clay shale and klynoptilolite)) – under conditions typical for surface fresh waters has been investigated. The distribution of platinum and palladium between a solution and suspended matter in real colored river waters has been studied.

Key words: platinum, palladium, migration behavior, natural water systems

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