

Glauconite of Saratov region, properties, composites based on it, the application

© **Sergey B. Venig**,* **Victor G. Serjantov**, **Rimma K. Chernova**, **Sergey Yu. Doronin**,⁺
Ekaterina I. Selifonova, **Andrey M. Zaharevich**, and **Elena M. Soldatenko**
N.G. Chernyshevsky Saratov State University. Astrakhanskaya St., 18/3. Saratov, 410012. Russia.
Phone: +7 (8452) 26-45-53. E-mail: Doroninsu@mail.ru

*Supervising author; ⁺Corresponding author

Keywords: inorganic sorbents, glauconite, sorption, composites.

Abstract

Elemental, granulometric, morphological composition of natural mineral glauconite (Belozersky field of Saratov region) have been studied. Finely dispersed (60 and 5 μm) and granulated fractions of enriched glauconite and nanocomposites based on them were obtained. Sorption, physico-chemical properties and environmental safety of them were studied. The expediency of using of glauconite and composites based on it for water purification, soil remediation and components of premixes for animals was considered.