## **Turkish Journal of Chemistry**

Turkish Journal	Synthesis and spectral characterization of a decavanadate/chitosan complex
of	Violeta Dimitrova KASSABOVA ZHETCHEVA, Lilyana Parvanova PAVLOVA University of Chemical Technology and Metallurgy, Department of Technology of Silicates,
Chemistry	Blvd. Kl. Ohridski 8, Sofia, 1756 BULGARIA e-mail: violeta.kassabova@gmail.com
Keywords Authors	<u>Abstract:</u> A decavanadate/chitosan complex was synthesized by crosslinking chitosan with decavanadate anions at a pH of 3. The materials were characterized by Fourier transformed infrared spectroscopy (FT-IR), X-ray diffraction (XRD), X-ray photoelectron spectroscopy (XPS), absorption spectroscopy (UV-Vis), and transmission electron microscopy (TEM). The spectroscopic results indicated that the decavanadate/chitosan complex was successfully obtained as result of an ionic crosslinking of the chitosan with decavanadate anions.
@	Key Words: Chitosan, biomaterials, vanadium compounds, crosslinking
chem@tubitak.gov.tr	Turk. J. Chem., <b>35</b> , (2011), 215-223. Full text: <u>pdf</u>
<u>Scientific Journals Home</u> <u>Page</u>	Other articles published in the same issue: <u>Turk. J. Chem.,vol.35,iss.2</u> .