

Assembling of Metal-Polymer Nanocomposites in Irradiated Solutions of 1-Vinyl-1,2,4-triazole and Au(III) Ions: Features of Polymerization and Nanoparticles Formation

Alexey A. Zharikov¹, Elena A. Zezina¹, Rodion A. Vinogradov¹, Alexander S. Pozdnyakov², Vladimir I. Feldman¹, Sergey N. Chvalun^{3,*}, Alexander L. Vasiliev⁴ and Alexey A. Zezin^{1,3}

¹ Department of Chemistry, Lomonosov Moscow State University, 119991, Moscow, Russia

² Favorsky Irkutsk Institute of Chemistry, Siberian Branch of the Russian Academy of Sciences, Favorsky st., 1, 664033, Irkutsk, Russia

³ Enikolopov Institute of Synthetic Polymeric Materials, Russian Academy of Sciences, 70, Profsoyuznaya st., 70, 117393, Moscow, Russia

⁴ Moscow Institute of Physics and Technology (National Research University), 141701, Dolgoprudny, Moscow Region, Russia

* s-chvalun@yandex.ru.

Supplementary Materials

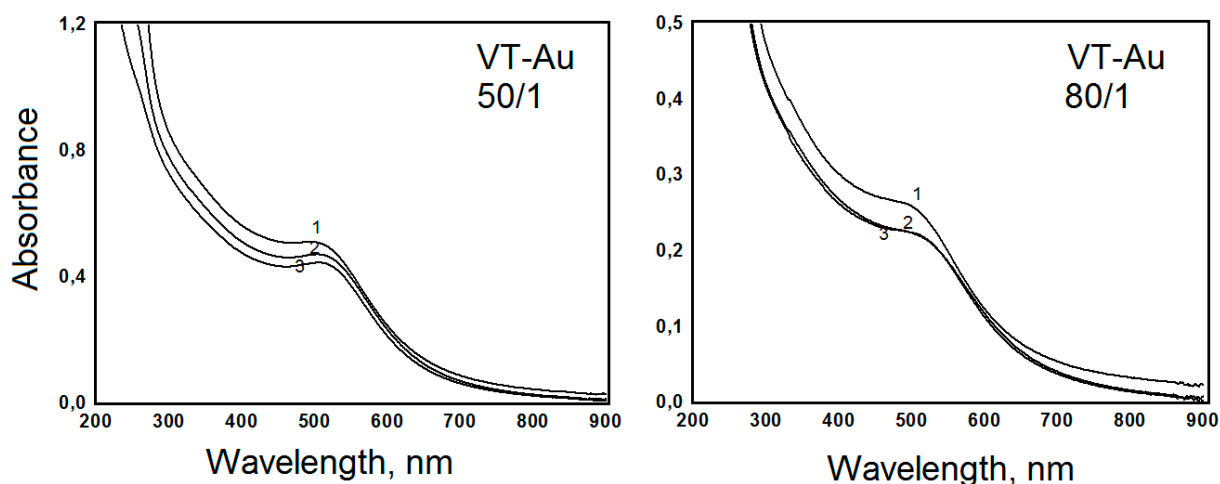


Figure S1. The UV-VIS spectra of irradiated at pH 5.5 VT-Au(III) solutions (1 - the spectrum was recorded immediately after irradiation) and the spectra of Au-colloids after 15 hours (curve 2) and 5 days (curve 3).