

КОЛОКВИУМ „АЛЕКСЕЙ ШЕЛУДКО”
СЕКЦИЯ „ПОВЪРХНОСТИ И КОЛОИДИ”
ИНСТИТУТ ПО ФИЗИКОХИМИЯ НА БАН

С Ъ О Б Щ Е Н И Е

На 01 април 2016 г. (петък) от 11:00 часа в зала „Болцман” на ИФХ-БАН, ще се проведе заседание на Колоквиума със следния дневен ред:

1. Доклад на Димитринка Арабаджиева, на тема:

„TWO-ANTENNARY OLIGOGLYCINES: INTERFACIAL LAYER PROPERTIES
ON AQUEOUS AND SOLID SURFACES”

In the present research we have studied the surface properties of aqueous solutions of $C_8H_{16}(-CH_2-NH-Gly_5)_2*2HCl$ (T2 with a C_8H_{16} spacer chain (C8-T2)) on air/solution interface, on glass plates and on activated carbon electrodes as shown in Fig. 1. Contact angle measurements are performed using KSV instrument CAM 200, Optical Contact Angle Meter (goniometer system). Activated carbons (ACs), used in this study are prepared at different activation temperatures. The results show that fixing a layer of C8-T2 on the surface of electrodes fabricated from these carbons improves their hydrophilicity and their affinity toward aqueous electrolytes. The properties of the obtained nanoaggregates have a considerable potential for the design and preparation of nanotransporters for various active agents in aqueous media, e.g. nanocarriers towards solid or fluid interface, in purification procedures aimed at the removal of biological impurities from natural or waste waters; for the surface modification of carbon electrodes used in electrochemical energy storage devices by lowering electrode/electrolyte contact resistances.

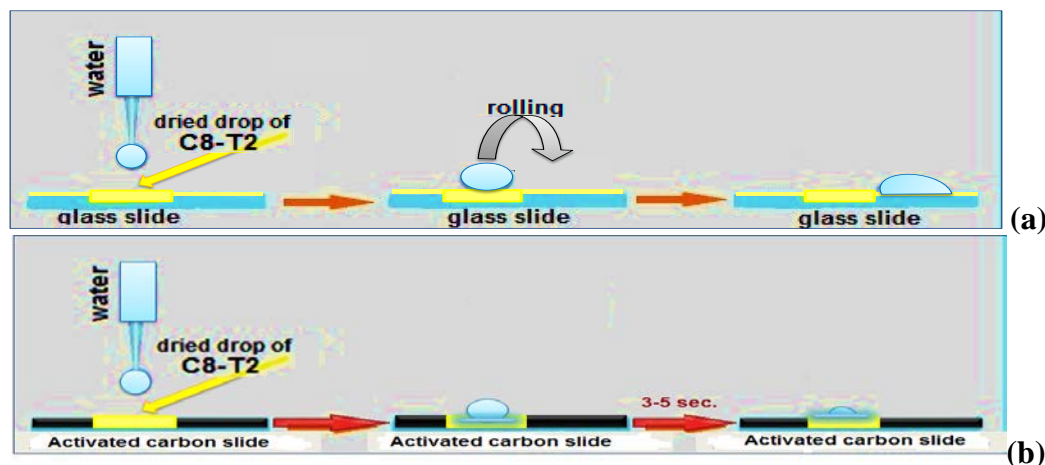


Fig. 1. Water droplet on a glass slide (a) and on an activated carbon electrode (b), both pretreated with C8-T2.

2. Разни (съобщения, организационни и др. въпроси).