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in kemijsko tehnologijo

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VABILO NA PREDAVANJE
V OKVIRU DOKTORSKEGA ŠTUDIJA
KEMIJSKE ZNANOSTI

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z naslovom:

(Bio)molecular matter aggregation states emerging in versatile friction conditions as presented in terms of (sub)mesoscopic kinetic-thermodynamic models

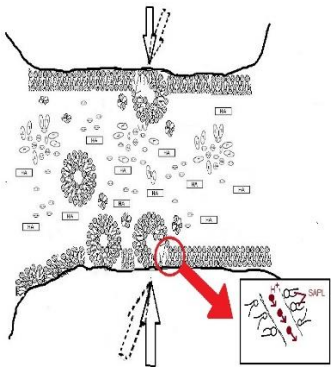
v sredo, 6. decembra 2017 ob 16:00 uri
v predavalnici 1 v 1. nadstropju Fakultete
za kemijo in kemijsko tehnologijo, Večna pot 113

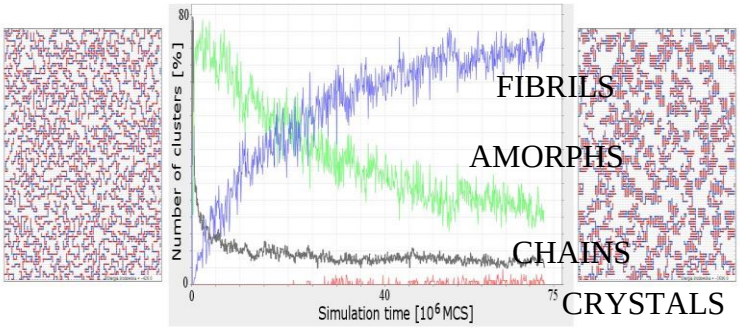
Vljudno vabljeni!

Povzetek:

The motivation of the talk is to reflect that soft-matter aggregations in their versatile forms cause system's inhomogeneization that may be assisted by either (i) internal- or (ii) external-friction conditions encountered, or sometimes both, (i)-(ii), as for example can be seen in articulating systems (left) or computer-simulated sol-gel type or similar flocks of (dis)ordered nature (right).

Different strategies will be presented, pointing to revealing a number of phenomena, ranging from micelle formations, sol-gel type aggregations, and finally, the ordered counterparts of the latter. All of them would arise on different kinetic-thermodynamic as well as stochastic force field addressing conditions, see but four of refs. reflecting the fact [1-4].





1. Z. Pawlak, A. G., M. Sojka, W. Urbaniak, P. Bełdowski, "The amphoteric effect on friction between the bovine cartilage/cartilage surfaces under slightly sheared hydration lubrication mode", Colloids and Surfaces B: Biointerfaces 146 (2016) 452–458.
2. A. G., P. Bełdowski, J. M. Rubì, W. Urbaniak, W. K. Augé II, I. Santamarìa-Holek, Z. Pawlak, "Some conceptual thoughts toward nanoscale oriented friction in a model of articular cartilage", Math. Biosci. 244 (2013) 188-200.
3. A. G., N. Kruszewska,"Thermodiffusion as a close-to-interface effect that matters in non-isothermal (dis)orderly protein aggregations ", Physics Letters A 378 (2014) 2881-2887.
4. N. Kruszewska, A. G., "Revealing sol-gel type main effects by exploring a molecular cluster behavior in model in-plane amphiphilic aggregations", Physica A (2010), DOI: 10.1016/j.physa.2010.04.012.