



Research division: Metal nanomaterials

We offer determination of size distribution and Zeta potential of nanoparticle materials

We offer contract measurement of characterization of the nanomaterials and colloid systems using the method of dynamic light scattering on Zetasizer NanoZS instrument (Malvern, UK).

- Determination of average size of the particles and size distribution
 - characterization of the highly concentrated systems in wide interval of the sizes from 0,6 nm to 6 μm owing to radiation detection under the angle 173°C (Non-Invasive Back Scatter technology)
 - measurements in temperature ranges 2°C - 90°C
- Zeta potential determination
 - Measuring of zeta potential of the particles with sizes from 3,8 nm - 100 μm using PALS method (Phase Analysis Light Scattering)
 - PALS method allows determination of zeta potential also at samples with high ionic power
- Molecule weight determination
 - Determination in the range of 980Da - $2 \cdot 10^7$ Da
- Usage of MPT2 autotitrator
 - Automatic size determination, zeta-potential or molecule weight depending on pH, ionic power etc. using MPT (Multi purpose titrator) instrument.



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