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Electrokinetic Particle Transport In Micro

It is ultimately caused by the presence of a charged interface between the particle surface and the surrounding fluid. It is the basis for analytical techniques used in chemistry for separating molecules by size, charge, or binding affinity. ... D.P.J.; P. Ehrhard (2005). "Model and verification of electrokinetic flow and transport in a micro ...

Electrophoresis - Wikipedia

Yang et al. coupled the particle corona discharge, flow field, particle charging and transport processes through simulation to study the effects of charged particle concentration on electric field, ion density, particle charging and migration. It was found that the particle space charge on the electric field distribution and ion density in the ...

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Concentration polarization occurs when the concentration of a specific component increases or decreases at the boundary layer close to the membrane surface due to the selective transport through the membrane. In case of pressure-driven processes such as microfiltration, ultrafiltration, nanofiltration, or reverse osmosis, the solute is typically retained by the membrane, leading to a ...

Concentration Polarization - an overview | ScienceDirect Topics

The well-known DLVO theory was established by Derjaguin, Landau, Verwey, and Overbeek in the 1940s (Derjaguin and Landau 1941, Verwey and Overbeek 1948) and describes the case where van der Waals forces are present in combination with electrostatic forces.The theory is based on the assumption that the electrostatic double layer forces and the van der Waals forces are independent and therefore ...

DLVO Theory - an overview | ScienceDirect Topics

Inertial particle separation by differential equilibrium positions in a symmetrical serpentine micro-channel Published in Scientific Reports: 2014: On-chip high-throughput manipulation of particles in a dielectrophoresis-active hydrophoretic focuser Published in Scientific Reports: 2013

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Recently, Choi et al effectively enhanced mixing using electrokinetic methods to generate vortexes near an assembled nanoparticle interface . Since electrodes are commonly integrated into microfluidic devices, electrokinetic mixing enhancements are easy to implement, and often do not require large voltages to operate effectively.

Mixing in microfluidic devices and enhancement methods - PMC
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Microfluidic immunoassay for detection of serological antibodies: A ...
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