



Einladung im Rahmen des Seminars Materialwissenschaften zum Vortrag von

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„Electrophoretic deposition of nanomaterials“

Electrophoretic deposition (EPD) is attracting increasing attention as an effective technique for the processing of nanomaterials and biomedical nanostructures. The wellknown advantages of EPD for the production of a wide range of microstructures and nanostructures as well as unique and complex material combinations are being exploited, starting from well-dispersed suspensions in particulate form (microsized and nanoscale particles, nanotubes, nanoplatelets). The review presents a comprehensive summary and discussion of relevant recent work on EPD describing the specific application of the technique in the processing of several nanomaterials, e.g. on inorganic coatings and biomedical nanostructures, including biopolymerceramic nanocomposites, carbon nanotube coatings, tissue engineering scaffolds, deposition of proteins and other biological entities for sensors and advanced functional coatings. EPD has become an important tool in advanced biomaterials processing, as a convenient alternative to conventional methods, and to present the potential of the technique to manipulate and control the deposition of a range of nanomaterials of interest in the biomedical and biotechnology fields.

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