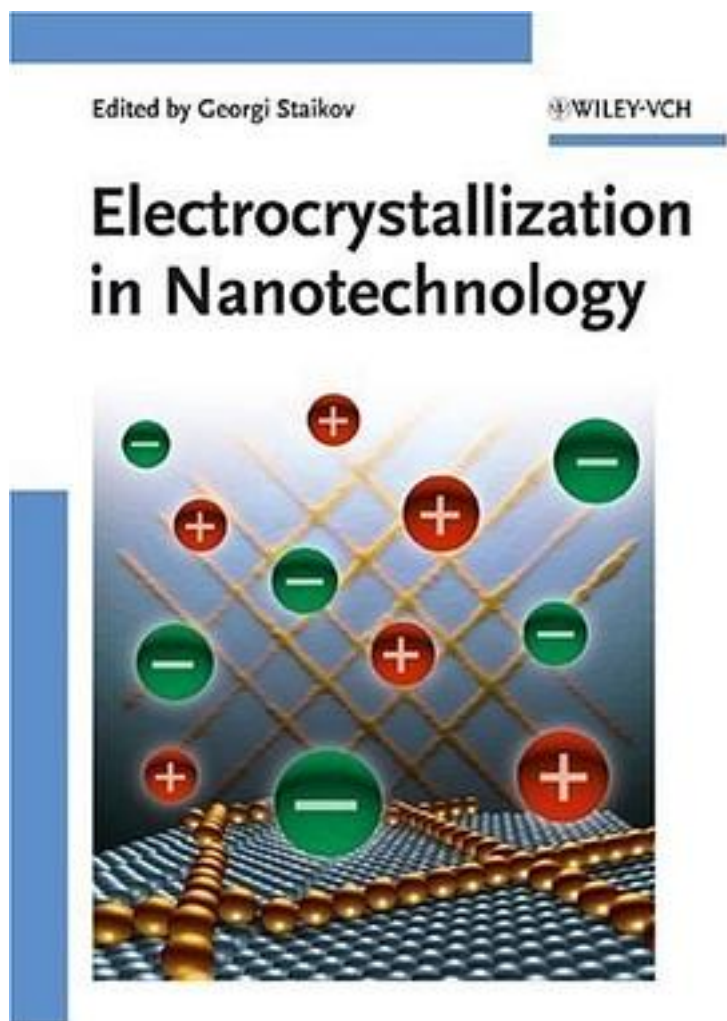


Electrocrystallization in Nanotechnology



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Here, the well-known editor in the field of electrocrystallization and his team of

excellent international authors guarantee the high quality of the contributions. Clearly structured in two main parts, this book reviews the fundamentals and applications of electrocrystallization processes in nanotechnology. The first part, "Fundamentals" covers the basic concepts of electrocrystallization, computer simulations of low-dimensional metal phase formation, electrodeposition in templates and nanocavities, nanoscale electrocrystallization from ionic liquids, and superconformal electrodeposition of metals. The second part, "Preparation and properties of nanostructures", includes nanostructuring by STM tip induced localized electrocrystallization of metals, fabrication of ordered anodic nanoporous Al₂O₃ layers and their application, preparation of nanogaps, nanocontacts, nanowires and nanodots by selective electrochemical deposition, as well as electrodeposition of magnetic nanostructures and multilayers.

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