



## Metallic Nanostructures on Surfaces

By Gabriel Kerner

VDM Verlag Apr 2009, 2009. Taschenbuch. Book Condition: Neu. 220x150x9 mm. Neuware - Heterogeneous catalysis is crucial in many industrial processes. Particle size effects can influence the catalytic behavior significantly, and is a central question in catalytic research as to how this can be exploited to improve activity and selectivity of a supported catalyst. The formation and size distribution of those metallic clusters is driven by diffusion, coalescence and sintering phenomena. An innovative method for buffer mediated deposition of metal on surfaces is developed, which presents the opportunity to create, characterize and study those processes on supported model catalysts (nano-clusters). This method, ranked among the Scientific American 'Top 50' in 2004, is also used to form submicron range variable width conducting wires, using macroscopic scale laser patterning. This is a parallel 'writing' procedure, at the size of a laser beam. The technique is an attractive method for the deposition of periodic and more complex patterns of conducting wires at widths below the current limits. It is discussed as a potential alternative for standard photo-lithography, promising a cleaner, cost effective and more environmentally friendly procedure. 144 pp. Englisch.



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