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(Ezra Bergstrom)

GESCHICHTE KAISER FERDINANDS II. UND SEINER ELTERN, BIS ZU DESSEN KRONUNG IN FRANKFURT VOLUME 4

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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 24 pages. Original publisher: Adelphi, MD : Army Research Laboratory, 2010 OCLC Number: (OCoLC)644130570 Subject: Biomedical materials -- Research. Excerpt: . . . Figure 2. (a) Acceleration of synthesis throughput by sonication and vapor droplet collision. (b) XRD spectrum of the final product, showing high crystallinity of ca. 6 nm cubic barium titanate. (c) TEM image of the final product. (d) High resolution TEM image of the final product, showing crystallographic lattices. 3 3. 2 Preparation and Characterization of Uniform BaTiO Nanoparticulate Thin-films, and Provision to Our Partners at ARL and The Aerospace Corporation As described at the end of quarter 3, we found that functionalization of the BaTiO nanoparticles 3 with simple linear organic carboxylic acids, such as oleic acid, provides sufficient Coulombic repulsion to prevent aggregation of the particles, permitting complete solubilization in organic solvents from which we are able to spin-cast uniform, well-dispersed thin films. We characterized the smoothness and uniformity of these films by SEM and cross-sectional TEM, profilometry and atomic force microscopy, and provided these films to our partners at ARL and The Aerospace Corporation. Functionalization of the BaTiO nanoparticles with oleic acid prevents aggregation of the 3 particles, permitting complete solubilization in hexane and similar organic solvents. Uniform, well-dispersed films were produced from these solutions by spin-casting on silicon and quartz silica. Analyses by SEM and cross-sectional TEM, profilometry and atomic force microscopy quantified the smoothness and high density of these films. The absence of cracks in these films and their high smoothness confirms the importance of stabilization and dispersion of the nanoparticles with surface functionalities compatible with volatile organic solvents. Two kinds of samples were prepared and sent to The Aerospace Corporation for...



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