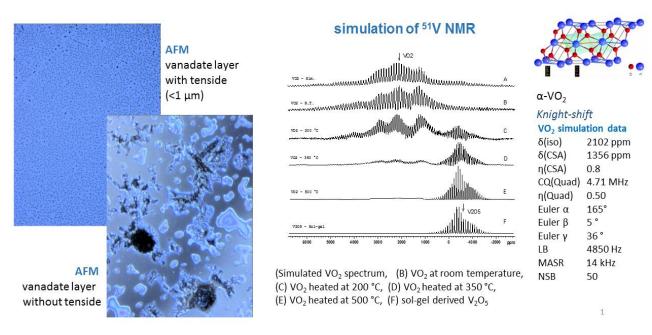
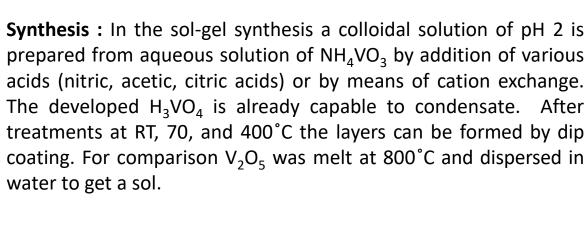
Effect of structural parameters on electrical properties of vanadate layers

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Scientific Goal: Development of a cost-effective synthesis for vanadate layers with variable thickness and excellent electrical properties is aimed. Important task is to investigate the effect of structural parameters on the electrical properties.

Result: According to experiments until now the best synthesis proved to be the use of ion exchange and tenside. By this way homogeneous thin layer can be produced. Solid state 51 V MAS NMR is found suitable to identify the V^{4+} and V^{5+} oxidation states and their chemical environment.