

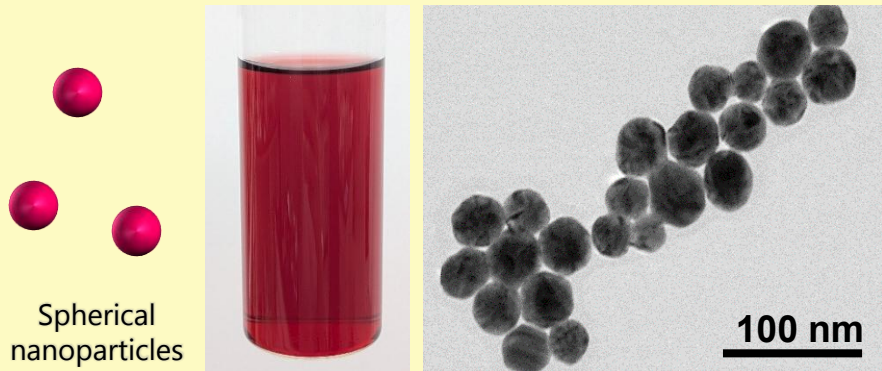
The Mystery of Nano —Design of Nanomaterials—

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Nanoparticles, materials with a diameter smaller than 100 nm, have unique properties different from bulk materials. We are going to synthesize metal nanoparticles using chemical reactions. Through the experiments and lectures, we will design nanomaterials with functional properties.

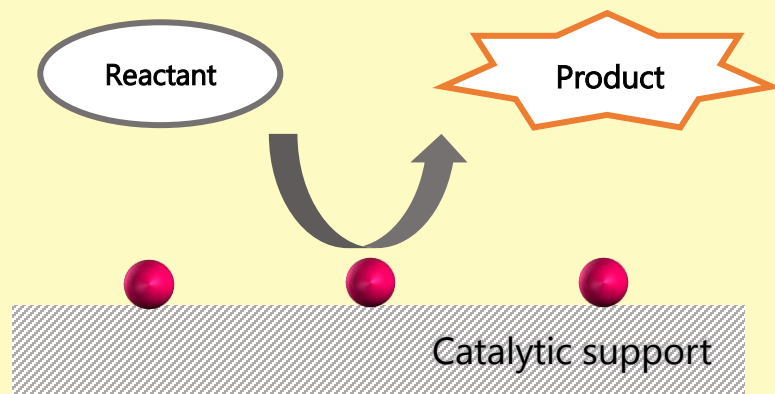
For instance, nano-sized gold particles have the following properties:

Optical properties



The colors depend on the size and shape of nanoparticles.

Catalytic activities



Material design is important for the properties.