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Synthesis, Structure, and Properties of Bimetallic Nanoparticles of Noble Metals

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Bimetallic nanoparticles offer a new degree of freedom to vary the particle characteristics by blending two metals in one particle. We have prepared series of monodisperse nanoalloys over the entire composition range and analyzed their structure using a wide range of methods. X-ray diffraction as well as electron microscopic and spectroscopic techniques were employed to understand the structure of nanoparticles.

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