



STEM Characterization of Metal Clusters In/On Oxides

By Shareghe Mehraeen

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 Dispersed metal clusters in or on a support matrix are key
 phenomena in many technological fields. Two widely used
 examples of them are supported-metal clusters in
 heterogeneous catalysts and transition metal clusters in diluted
 magnetic semiconductors (DMS). The catalytic activity and
 selectivity of catalysts depend sensitively on structure
 parameters like particles size and shape. With the same
 analogy, the magnetic properties of DMS oxides are sensitively
 related to the crystal defects of the host material as a
 consequence of doping the metal. Therefore it is essential to
 understand the correlation between nanostructure and
 function of the materials. Z-contrast imaging is the best
 candidate for the related study because of a high degree of
 resolution it provides and the unique ability it offers to detect
 and differentiate the clusters and oxide matrix due to the
 difference their atomic numbers. Moreover the development in
 the STEM field fosters the conjugation of Electron Energy Loss
 Spectroscopy (EELS) and Z-contrast imaging and their
 widespread use for nearly atomic level chemical analysis at
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