



# Plasmon Length: A Universal Parameter to Describe Size Effects in Gold Nanoparticles



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A group of MRSEC researchers show from about 500 experimental measurements of individual nanoparticles that the effects of size on the plasmonic properties are shape-independent when shape is described by the plasmon length, the length over which the oscillations take place. This result both simplifies how we should describe shape and size effects in nanoplasmonics, as well as provides a more accurate guide for future industrial applications.

