

# **Profesor Miguel García-Garibay**

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## **Cristales Anfodinámicos y Máquinas Moleculares**

The Garcia-Garibay research group is dedicated to the study of solids and crystalline materials spanning a wide range of properties and length scales. There are four main research thrusts in the group (I) The design of reactions in crystals for both synthetic and materials applications; (II) The design of solid state materials with functions that rely on controlled mechanical changes at the molecular level, including electrooptics, ferroelectrics, etc. (III) The use of nanoparticles to control photochemical processes, and (IV) the study of structure-reactivity correlations based on solid state reaction rates and X-Ray structural analyses, including the control of reactive intermediates and a better understanding of quantum mechanical tunneling.

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