

Miguel Ángel González Maestre

1D Janus Particles. Theory and Simulation

Abstract:

Janus particles are compartmentalized molecules which exhibit two sides of different chemistry and potential of interaction. These systems have moved into the focus of various research groups ranging from physics and chemistry to biological and new material science.

In this talk we deeply investigate the theoretical approach of the Janus system in one dimension, comparing the analytical solution with computer simulations while outlying a great deal of interesting features related with these system, such as its surfactant nature, methods of synthesis and self-assembly.