

**NANOTECHNOLOGY FOR WATER-FOOD-ENERGY:  
SUSTAINABILITY AND ENVIRONMENTAL REMEDIATION**

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With advances in the translation of nanoscience to nanotechnology comes a need to consider sustainable sourcing of the building blocks used to create the nanotechnological devices at the same time that the functional performance application is defined. This brief presentation is meant to serve as a catalyst for the follow-up discussion regarding contributions that nanotechnology can make to water-food-energy and the grand challenges that need to be solved in the coming decade. The focus will include an integration of current approaches to construct nanoscopic systems from natural products with the design of hybrid nanoscopic systems that are capable of pollutant sequestration and magnetic recovery toward environmental remediation.

