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Energy **C**hallenges & **M**echanics
- working on small scales

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Speaker of Session 03

HYDROGEN GENERATION AND STORAGE



Dr. Tzonka Mineva is a CNRS researcher at the Institute Charles Gerhardt, Montpellier, France. Prior to joining CNRS in 2006, she worked as a senior research fellow at the Bulgarian Academy of Sciences, Institute of Catalysis in Sofia, Bulgaria. Her research activity is devoted to methodological developments in the frame of quantum chemistry density functional theory (DFT) based methods and their combinations with classical algorithms for applications to study the formation, the stability and the reactivity of porous materials, gels, transition metals and particles on surfaces and in inorganic pores as well as their dynamic evolutions. Her recent research is mainly focused on quantitative descriptions of coupling between strong and weak interactions at organic-inorganic and inorganic-

inorganic interfaces in structured porous materials and in defect-containing transition metal oxides with a potential use in new energy devices.

