



4th International Symposium on
Energy **C**hallenges & **M**echanics
- working on small scales

11-13 August 2015
Aberdeen, Scotland, UK

Speaker of Session 18

MECHANICS OF NANOPOROUS MATERIALS FOR ENERGY APPLICATIONS



Dr. Katherine Villa is graduated from University of Quindio in 2008, specializing in inorganic chemistry. She started his master course in 2009 and awarded a Doctoral fellowship at the department of Chemistry in the Autonomous University of Barcelona up to 2013. During her time as visiting researcher at the Solar Platform of Almeria (PSA), Dr. Villa also had the chance to support the Water Solar Treatment team with the implementation of a solar plant pilot for the photocatalytic hydrogen generation from real municipal wastewater. After her Ph.D. on “Production of hydrogen by heterogeneous photocatalysis” she is currently a scientific researcher at the Catalanian Institute for Energy Research, where she is investigating the photocatalytic conversion of methane to methanol. Dr. Villa has more than 9 years of experience in

photocatalytic process and has participated in 5 research projects. Her main research interests include preparation of nanomaterials, green chemistry, generation of renewable energy, with several publications on these subjects.

