



## Thematic Meeting “Materials for Energy”

Rome, September 9th 2016

Aula Rasetti, Department of Physics, Sapienza University of Rome

### PROGRAM

10:15 Welcome

10:30 Prof. Marcello Baricco, University of Turin, “Hydrides for energy storage”

11:00 Prof. Chiara Milanese, University of Pavia, “Carbon based nanostructures for the production and storage of hydrogen”

11:30 Dr. Maria Assunta Navarra, Sapienza University of Rome, “Polymer Electrolyte Membrane Fuel Cells and Water Electrolyzers: advanced materials for more efficient devices”

12:00 Prof. Stefania Panero, Sapienza University of Rome, “Electrical Energy Storage: what is around and beyond the corner?”

12:30 Dr. Sergio Brutti, University of Basilicata and CNR-ISC, “MgH<sub>2</sub> as high capacity anode material in lithium cells”

13:00-14:00 Lunch

14:00 Dr. Giovanni Battista Appetecchi, ENEA Casaccia, “Ionic liquids as advanced electrolyte components for electrochemical storage devices”

14:30 Dr. Francesco Trequattrini, Sapienza University of Rome and CNR-ISC, “Ionic liquids: basic science and applications”

14:40 Dr. Simone Fabbri, CNR-IMEM, “Magnetocaloric materials: novel solid state refrigeration technologies and energy harvesting”

15:10 Dr. Rosanna Larciprete, CNR-ISC, “Hydrogen production by water decomposition on epitaxial graphene”

15:30 Dr. Leonardo del Rosso, CNR-ISC, “Physisorption and storage of hydrogen in porous materials based on H<sub>2</sub>O”

15:50-16:10 Coffee Break

16:10 Dr. Floriana Craciun, CNR-ISC, “Multifunctional ferroelectric, antiferroelectric and relaxor materials for energy harvesting, solid-state refrigeration and high energy density capacitors”

16:30 Prof. Paolo Postorino, Sapienza University of Rome, "Structural, electronic and optical properties of Iodine and Bromine organometal perovskites under pressure"

16:50 Dr. Francesco Cordero, CNR-ISC, "Ionic mobility and phase transitions in ion conducting and other perovskite oxides for energy applications"

17:10 Dr. Antonio Di Trolio, CNR-ISC, "Hydrogen irradiated cobalt-doped zinc oxide thin films: conductivity, ferromagnetism and charge storage"

17:25 Dr. Oriele Palumbo, CNR-ISC, "Challenging hydrides"

17:35 End of the Meeting

## **PROCEEDINGS**

Selected papers from the Meeting will be published in a special issue of the journal "Challenges":

[http://www.mdpi.com/journal/challenges/special\\_issues/materials\\_for\\_energy](http://www.mdpi.com/journal/challenges/special_issues/materials_for_energy)

Deadline for manuscript submission: 31 December 2016