



European Materials Research Society

# Spring Meeting 2015

from May 11<sup>th</sup> to 15<sup>th</sup> / Lille Grand Palais

## Call for papers

deadline for abstract submission: 15 January 2015

Conference Chairs: **Manuel Bibes**, CNRS/Thales, France

**Valentin Craciun**, National Institute for Lasers, Plasma and Radiation Physics, Romania

**Laura Meda**, Eni S.p.A., Italy / **Marko Topic**, University of Ljubljana, Slovenia

### MATERIALS FOR ENERGY AND ENVIRONMENT

- A Materials, mechanism and devices in nano energy
- B Materials for applications in water treatment and water splitting
- C Advanced inorganic materials and structures for photovoltaics
- D Earth abundant and emerging solar energy conversion materials
- E Materials design and processing concepts for efficient and stable organic, hybrid, perovskite and dye solar cells
- F Scientific basis of the nuclear fuel cycle – III
- G Basic research on ionic-covalent materials for nuclear applications

### MATERIALS FOR OPTICS AND OPTOELECTRONICS

- H Nanoparticles in dielectric matrix for electronics and optics: from the fabrication to the devices
- I Semiconductor nanostructures towards electronic and opto-electronic device applications – V
- J Frontiers in nano optics
- K Transport and photonics in group IV-based nanodevices
- L Advances in the prediction, design, fabrication and characterization of 2-dimensional crystal and metamaterial nanostructures for nanophotonics

### MULTIFUNCTIONAL OXIDES

- M Multifunctional binary and complex oxides films and nanostructures for nanoelectronics and energy applications – II
- N Synthesis, processing and characterization of nanoscale multi functional oxide films
- O Fundamentals of oxide heterostructures
- P Topological defects in ferroelectric or ferromagnetic materials : domain wall, vortices, skyrmions and beyond

### ORGANIC AND BIO-MATERIALS

- Q Organic semiconducting single crystals: from fundamentals to advanced devices
- R Block-copolymer self-assembly for nanotechnology applications
- S The processing-structure-property nexus of organic semiconductors
- T Design, fabrication and self-assembly of anisotropic and patchy particle
- U Materials and biosensor systems for in vitro diagnostic applications
- V Bioinspired and biointegrated materials as frontiers nanomaterials V
- W Functional surfaces and interfaces
- X Nanomedicine advancing from bench-to-bedside: the role of materials

### MATERIALS FOR ADVANCED ELECTRONICS

- Y Science and technology of two-dimensional materials
- Z Nanomaterials and processes for advanced semiconductor CMOS devices
- AA Non-volatile memories: materials, nanostructures and integration approaches
- BB Paper electronics: a new challenge for materials a new opportunity for devices II

### ADVANCED MATERIALS SYNTHESIS, PROCESSING AND CHARACTERIZATION

- CC Laser and plasma processing for advanced applications in material science
- DD Current trends in Optical and X-ray metrology of advanced materials for nanoscale devices IV
- EE Protective coatings and thin films
- FF Electrochemical processes for nanomaterials and their properties
- GG ANIM 2: Advances and enhanced functionalities of anion-controlled new inorganic materials

### WORKSHOPS

- Advanced materials and technologies for renewable energies (AMREN-1)
- Sustainable solutions for restoration & conservation of cultural heritage

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