



VIRTUAL SEMINAR

Wednesday, 03.03.2021 at 13:00

Transforming materials discovery with robot-based research

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Horizon Europe 2021-2027 goals are focused on cutting-edge research and disruptive innovation addressing fundamental science and global challenges. Achieving these goals will require breakthroughs in the development of scientific facilities and the way researchers conduct research in the basic and applied sciences. Since many 21st century technological solutions are reliant on the development of new materials with improved properties, we started establishing a new laboratory in which the autonomous discovery of nanomaterials will be enabled with robot-based automated solutions and machine learning techniques. The seminar will describe the most important stages of the transformation of traditional research laboratory and workflow to a world leading infrastructure and a convenient workflow which does not require human intervention. Our new robot-based laboratory will include synthesis, characterization and testing of nanomaterials in different forms. The main automated process will be anodic oxidation of metals and the main applications will be in the field of photo-electro-catalysis.

Kindly invited.