

INTERNATIONAL WORKSHOP ON ADVANCED APPLICATIONS OF EMERGENT MATERIALS

04-07 DECEMBER 2019
RABAT & FES, MOROCCO

Scope

Boosted by the development of the experimental techniques like the great success of graphene-based devices, the past decade has witnessed the rapid development of a long list of emergent materials with a wide range of applications in energy, medicine, health care, space, environment, etc. Furthermore, the feasibility of engineering such nanostructures has the potential to extremely alter and revolutionize our material world. However, despite these potential gains, we still have no way to know the long-term effects of releasing these new materials and other technology critical elements into our environment when embedded into nature or incorporated in our body. To promote a sustainable development, to make proper use and benefit from emergent materials, it is necessary to make sure that we are capable of making the right choice by using them for the betterment of human kind. It is also very important that we act responsibly and intelligently in order that the use of the new devices will not constitute military technology that may harm us and could cause great damage for societies

Main Topics and science sessions

- Engineering physicochemical properties for clean environment
- New materials and elaboration techniques for environmental sensing
- Quantum dots for medical applications: benefits and risks

MAIN GOALS AND OUTPUTS

This International activity aims bringing together scientific researchers and experts from different areas to discuss scientific and technological advantages of emergent materials and exchange the latest results in this field of research.

By taking part in this scientific event hold in Morocco, the participants will address the scientific, social and economic challenges of multidisciplinary research and development efforts involving emergent materials for advanced applications. They will also highlight the impacts of nanoscale research and engineering on human health and environment. The Workshop aims also to raise young scientists' awareness of the potential benefits about emergent materials as well as their present and future applications in energy, environment, and medicine

There is no registration fee.

- New materials and Energy stockage and generation
- Challenge of emergent materials for spintronic and photonic
- Smart materials for sustainable technology



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