

第151回フロンティア材料研究所講演会 第24回未来産業技術研究所生体医歯工セミナー

日時：2022年10月27日 木曜日 14:00-16:00

場所：R2棟1F オープンコミュニケーションスペース

プログラム

14:00-15:00 講演

Next generation multifunctional materials for a digital and sustainable economy

デジタルで持続可能な経済のための次世代多機能材料

Senentxu Lanceros-Mendez, Director, BCMaterials

(Basque Center for Materials, Applications & Nanostructures)

IKERBASQUE, Basque Foundation for Science, Spain

CF-UM-UP & LaPMET, University of Minho, Portugal

Email: Senentxu.lanceros@bcmaterials.net

15:00-16:00 研究交流会

講演概要

Smart and multifunctional materials are a key driving force for the development of wireless, sustainable and interconnected systems, playing a central role in the scope of the digitalization and circular economy paradigms. Active and multifunctional materials are being, in fact, increasingly implemented in areas such as sensors and actuators, energy generation and storage, among others. The successful development of applications relies both in the ability to properly tailor their functional response and in their application with suitable (and sustainable) fabrication technologies.

Multifunctional materials processable by additive manufacturing technologies is an area of increasing interest due to improved sustainability, simple integration into devices and the possibility of obtaining multifunctional materials over large and flexible areas.

Relevant results, strategies and challenges in the development of specific active and multifunctional materials, including electro-, magneto-, thermo and photoactive, will be shown, together with applications in the areas of sensors, actuators and energy generation and storage.

科学技術創成研究院とスペインBCMaterialsは国際部局間協定を締結しております。
ご参加よろしくお願ひします。 問合先: 細田秀樹 hosoda.h.aa@m.titech.ac.jp