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FEBRUARY 27-MARCH 3, 2022
ANAHEIM CONVENTION CENTER & ANAHEIM MARRIOTT
ANAHEIM, CALIFORNIA, USA
#TMSAnnualMeeting

SUBMIT AN ABSTRACT FOR THE FOLLOWING TMS2022 SYMPOSIUM:

ADVANCED MATERIALS

Advanced Functional and Structural Thin Films and Coatings

Functional thin films and coatings continue to be an innovative area in physics, materials science, chemistry, and engineering. This symposium encompasses all aspects of advanced thin films and nanomaterials for modern optical, photonic, and electronic devices with applications in photovoltaics, sensing, and display technologies. Moreover, coatings & engineered surfaces for reducing corrosion and wear as well as making use of lubricant-free (green) production and coatings for biomedical and healthcare applications are of interest.

This symposium will include, but will not be limited to the following topics:

- Scope 1: Thin films and nanostructures for optoelectronics
 - Fundamental studies and modelling, photonics, plasmonics, sensors, flexible electronics
 - Multifunctional materials & devices
- Scope 2: Coating technologies and surface structuring for tools
 - Fundamentals & applications of lubricant-free (green) production
 - Methods to improve wear resistance and reduce friction
 - Functionalizing surfaces & interfaces
- Scope 3: Multifunctional biomaterials, innovative approaches to new concepts and applications
 - Functionalities of coatings/surface modifications
 - Methods to improve biocompatibility, cell proliferation and growth, antimicrobial behavior and metallic ion release, load-bearing prostheses, corrosion resistance, wear resistance, etc. under in vitro and in vivo conditions

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QUESTIONS?
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