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Advances in Porous Anodic Oxides from Biomaterials to Sensing and Energy

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Deadline for manuscript submissions:

closed (10 June 2022)

Message from the Guest Editors

This Special Issue would like to collect contributions from all these diverse areas, especially pointing to use of new metals to be oxidized, in order to provide a picture of the current state-of-the-art in the field. Manuscripts on the fabrication, characterization, and applications of the structured materials surfaces—in the form of both coatings and membranes—will be welcome.

The relevant topics include but are not limited to those listed under the Keywords section below.

- functional metal coatings
- self-organization
- valve metals
- intermetallic alloys
- nanopatterning
- natural lithography
- templates and moulding
- hierarchical material structuring
- biocompatibility
- bioactivity
- pore loading and elution
- orthopaedic implants
- dental implants
- optical properties after nanostructuring
- photocatalytic properties of anodic oxides
- energy storage
- diffusion in porous solids
- modelling of growth
- modelling of diffusion through pores
- modelling of mechanical properties



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Special Issue



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Editor-in-Chief

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Message from the Editor-in-Chief

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