



Electrode Design: Structure, Decoration and Applications

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Deadline for manuscript submissions:

closed (15 October 2021)

Message from the Guest Editor

Topics of interest include, but are not limited to, the following areas:

- Novel electrode architectures for sustainable electrochemical applications and electrochemical energy conversion and storage.
- Porous electrodes based on cellular, periodic or open-foam structures.
- 3D-printing of digitally tailored electrode architectures and materials.
- Advanced imaging and metrology of porous electrodes (e.g. X-ray computed tomography).
- Electrodes decorated with novel electrocatalysts (e.g. nanoparticles).
- Hierarchical micro- and nanostructures at electrode surfaces.
- Metal- and oxide-based electrocatalysts, including composites and alloy coatings.
- Application of electrocatalysts using thermal and hydrothermal methods as well as anodization, galvanic replacement, plasma discharge and vapor deposition techniques.
- Porous electrodes based on perforated plates, foams, meshes, cloths, felts and 'paper'. Templated porous scaffolds.
- Analytical and numerical models of current and potential distribution and hydrodynamics at such electrodes.





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Editor-in-Chief

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Message from the Editor-in-Chief

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