



Showcasing research from Scott Mitchell's team at the Aragón Nanoscience and Materials Institute (INMA-CSIC/UNIZAR), Zaragoza, Spain.

Multifunctional polyoxomolybdate ionic liquid coatings for mitigating microbiologically influenced corrosion

Polyoxometalate-ionic liquids (POM-ILs) are applied as multifunctional coatings to combat microbiologically influenced corrosion of metal substrates. These materials provide long-lasting corrosion and biofouling resistance in highly acidic environments, maintaining stability over several months. This abstract artwork symbolizes the protection of metal surfaces. The dense, chaotic web of lines and splatters reflects the complex interplay between microbial activity and corrosion, while the vibrant ochre-yellow layer represents the protective POM-IL barrier, resisting the encroaching chaos of degradation. Image by Rafael González de Agüero.

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As featured in:



See Andrea Koerdt,
Scott G. Mitchell *et al.*,
Mater. Horiz., 2025, **12**, 4648.