

# RSC Applied Interfaces

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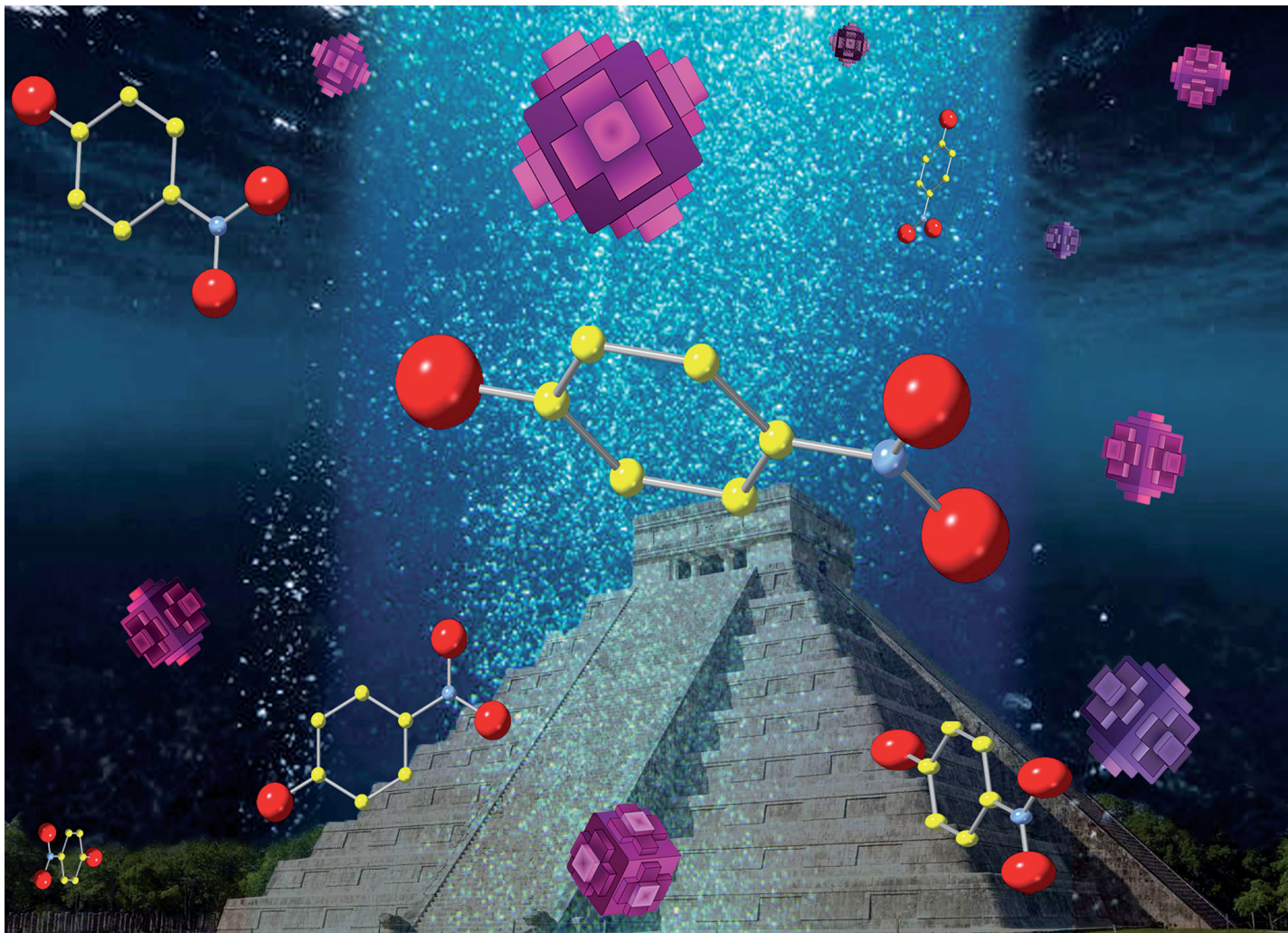
**Interfacial and surface research  
with an applied focus**

**Interdisciplinary and open access**

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**Fundamental questions  
Elemental answers**





**Showcasing research from Dr Mendoza's laboratory,  
at the Materials Research Institute, Universidad Nacional  
Autónoma de México, México.**

PDDA induced step-pyramidal growth of nickel-platinum (Ni-Pt) nanoparticles for enhanced 4-nitrophenol reduction

Novel nickel-platinum (Ni-Pt) nanoparticles with step-pyramidal facets were synthesized colloiddally, using poly(diallyldimethylammonium chloride) (PDDA), a cationic surfactant. The particles presented outstanding activity and reusability for 4-nitrophenol reduction, thus contributing to environmental remediation.

**As featured in:**



See Rubén Mendoza-Cruz *et al.*,  
*Chem. Commun.*, 2023, **59**, 6845.