

ADVANCED FUNCTIONAL MATERIALS



ELECTROCHEMISTRY

Unique sulfur-doped graphene-supported platinum nanoparticles prepared by Z. Chen and co-workers provide excellent oxygen reduction activity and stability, rendering them highly attractive electrode materials for fuel cell applications. On page 4325, the enhancements arise due to specific interactions between the sulfur dopant atoms and the platinum nanoparticles, leading to a “tethering” effect that increases the stability and modulates the electronic properties that improve the activity.