

RSC Sustainability

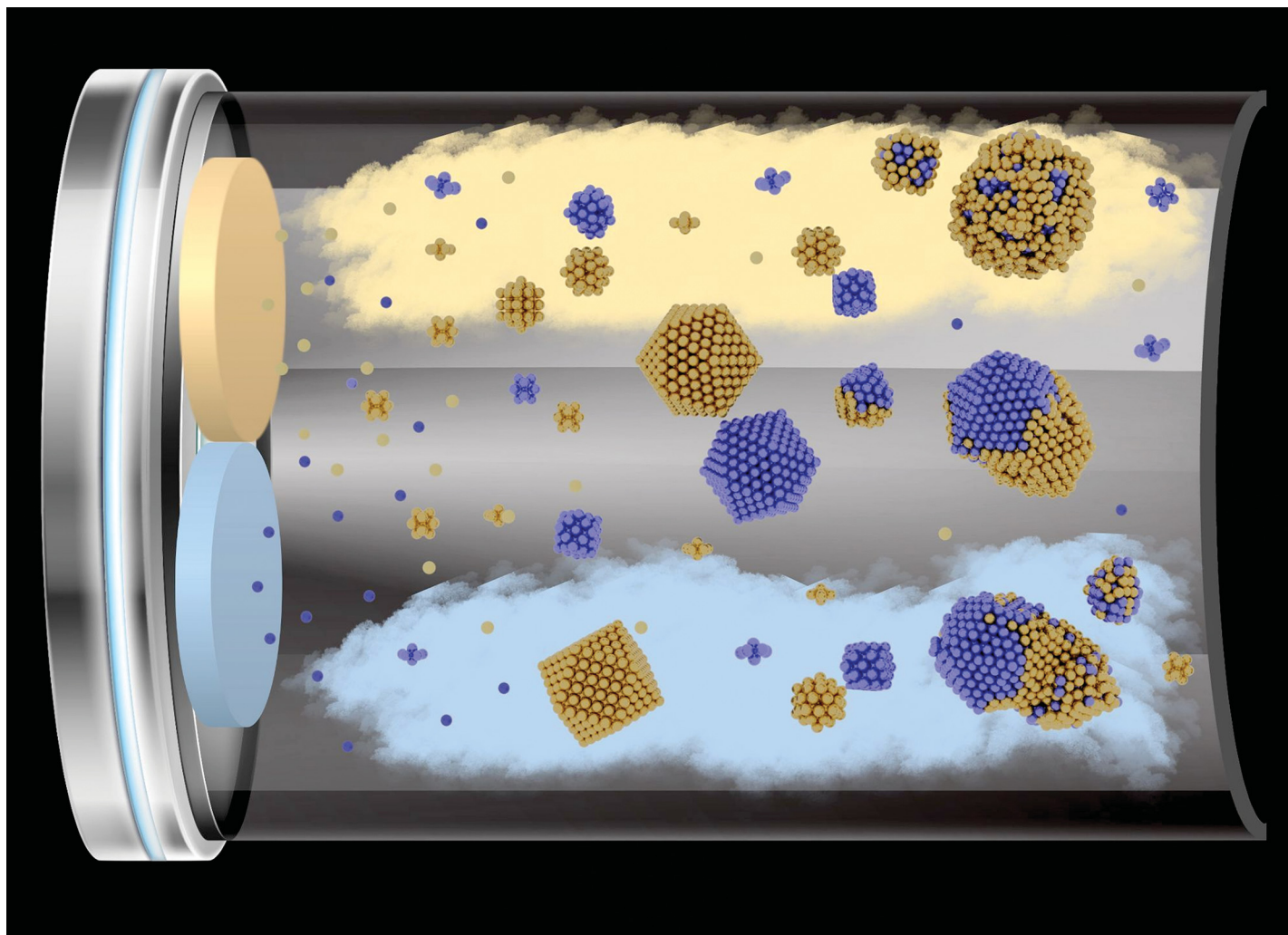
GOLD
OPEN
ACCESS

Dedicated to sustainable
chemistry and new solutions

For an open, green and inclusive future

rsc.li/RSCSus

Fundamental questions
Elemental answers



Showcasing research from the group of Prof. Francesca Baletto
at the MLMS, Physics Department, University of Milan, Italy.

Coalescence of AuPd nanoalloys in implicit environments

We develop numerical tools to model the formation processes of metallic and bimetallic nanoparticles. This work investigates the synthesis of AuPd nanoalloys surrounded by various environments. We find that the kinetics of the chemical ordering of the nanoalloy are significantly affected by how strongly the two chemical species interact with the environment itself. The present work provides a foundation for understanding the chemical ordering which occurs during the formation of nanoalloys and hence for the development of nanodevices with a controlled surface chemical distribution.

As featured in:



See Sofia Zinzani and Francesca Baletto,
Phys. Chem. Chem. Phys.,
2024, **26**, 21965.