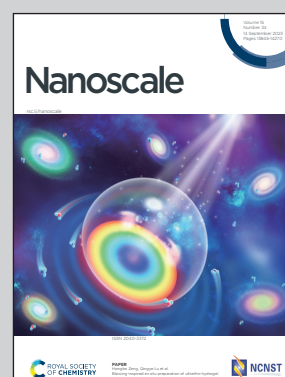


Showcasing works from Prof. Chia-Chi Huang's labs,
Departments of Chemistry at Chiayi University, Chiayi City,
and Tamkang University, Tamsui, Taiwan, with vantage
symbols of hillside Chiayi and historical Tamsui.

Spectroscopic analyses of particle and energy aggregations
at the interface of silver nanoparticles and fluorescent
carbon nanodots

We model conserved energy hotspots in CDs-AgNPs
composites. Fluorescent CDs with an optimal quantity of
-COOH groups bind AgNPs, forming cone-shaped voids,
within which the fluorescence energy coalesces with the
LSP of AgNPs. Elevated energy in these nanoscale voids is
detected when it excites the Raman scattering of 4-APDS
to give significantly strengthened signals. Image credit: Ms.
Chia-Wen Chang and Mr. Jun Hao Wang.

As featured in:



See Chia-Chi Huang *et al.*,
Nanoscale, 2023, **15**, 13987.