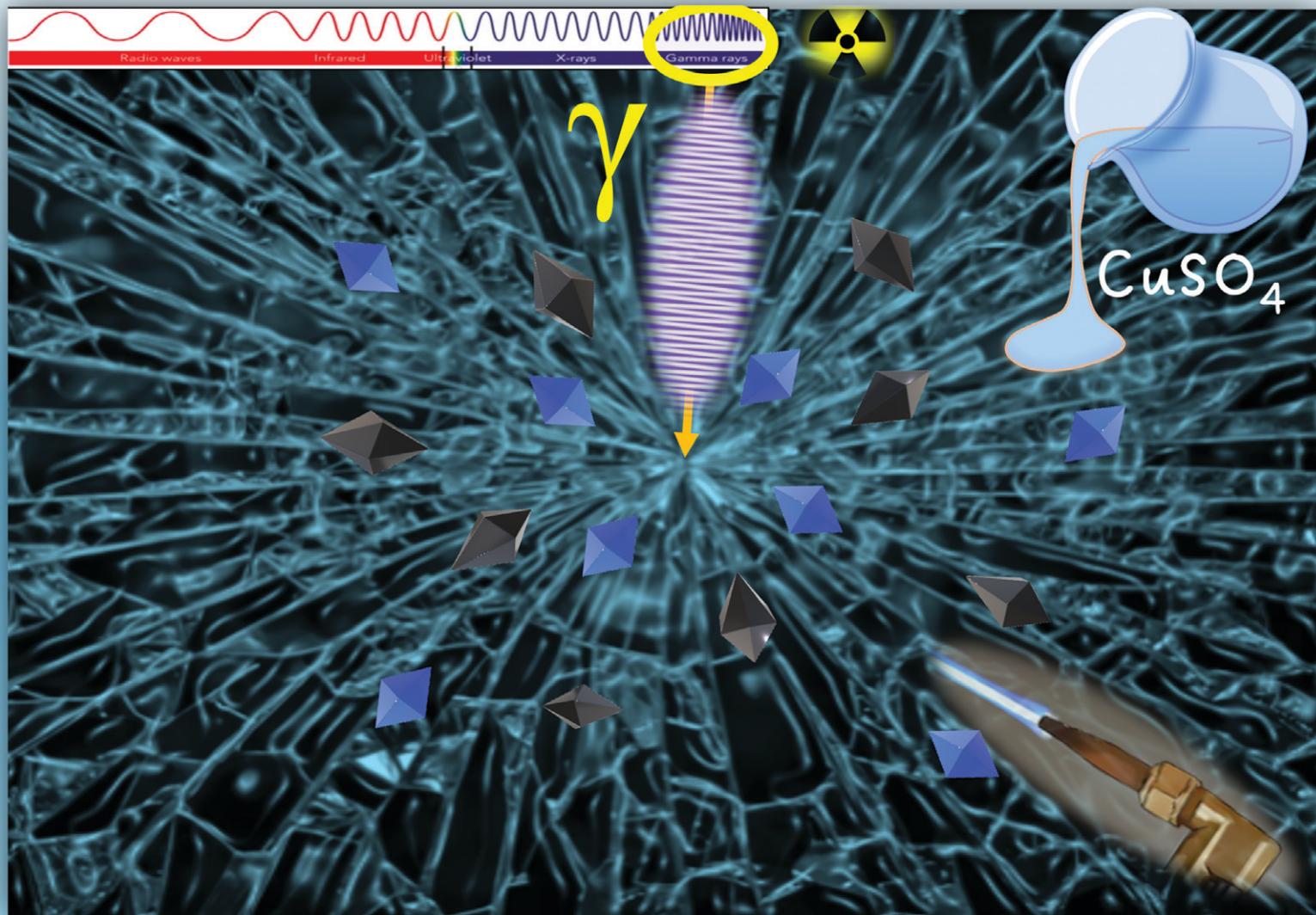


CrystEngComm

rsc.li/crystengcomm



ISSN 1466-8033

PAPER

Alaa Adawy *et al.*

Embedding crystalline Cu and Cu₂O nanoparticles in silicate glasses through an ion-exchange process followed by gamma irradiation and annealing: an optical absorption spectroscopy assessment