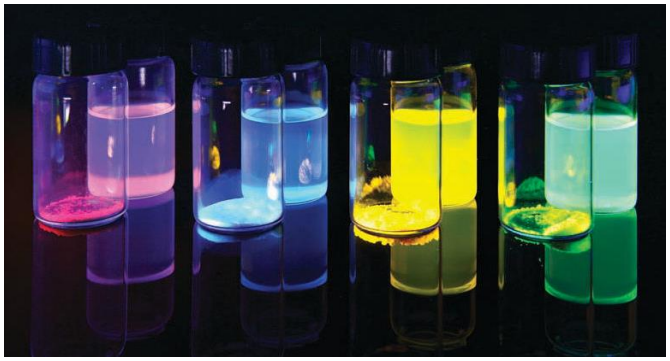
Dye-Doped Silica

Description

Dye doped silica nanoparticles (DDS) are readily dispersible in a wide variety of organic solvents including toluene, chloroform, and dichlorobenzene. DDS particles can be used in thin films, as tracers, light emitting diodes, optical probes, and sensors.



Product Specifications

Property	Description
Particle Sizes	5 to 15 nm
Dyes Available	ADS680BP, Nile Blue, Oxazine, Rhodamine G6, Uranine
Absorbance Onset	300 nm
Fluorescence	λ_{em} 440 to 700 nm
Forms	Powder or dispersed in solvent

Packaging

Shipped as 10 mg, 50 mg, and 100 mg powders in glass vials. Bulk can be supplied upon request.

Contact us for purchasing/customization options. AQM can tailor the surface chemistry or the dyes to provide DDS particles suitable for specific applications.

Characterization Data

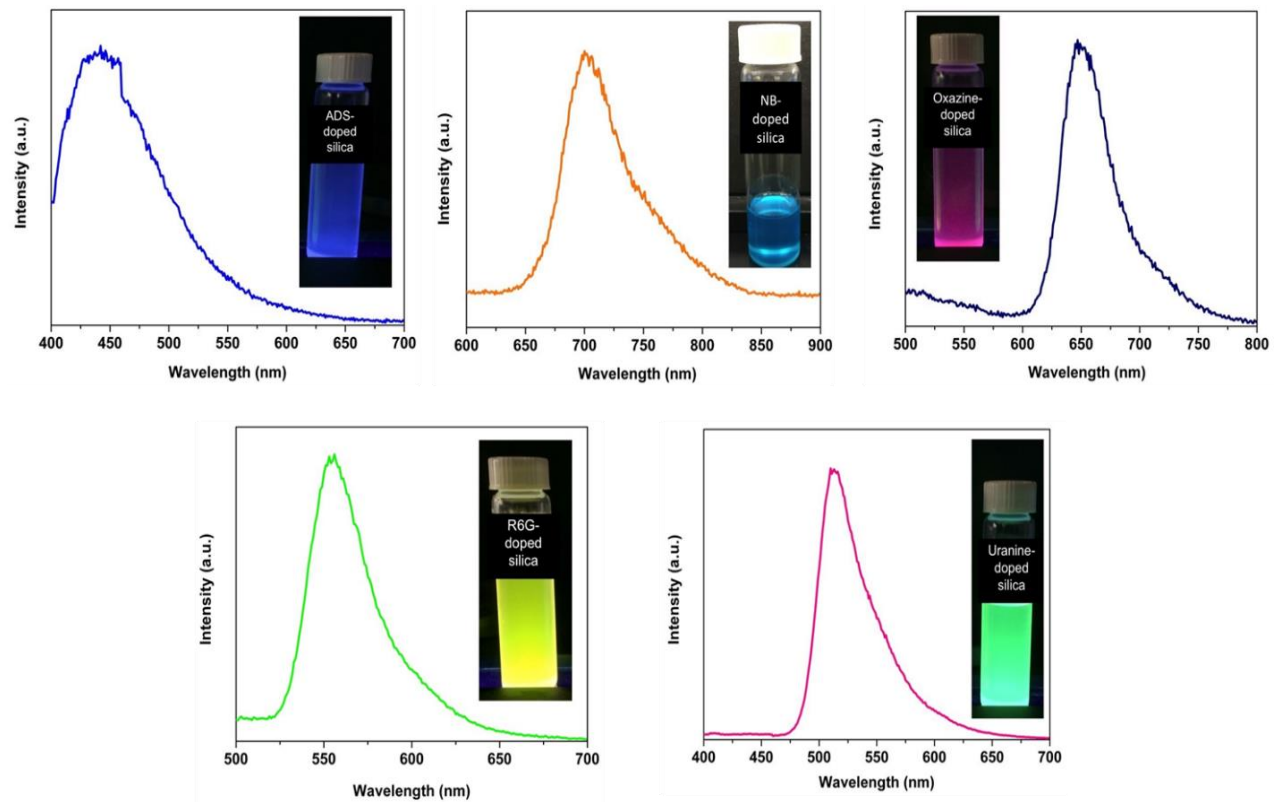


Figure 1. Fluorescence spectra of the different types of DDS.