

SUPPORTING INFORMATION

For

Two-photon absorption of ligand-protected Ag₁₅ nanoclusters.
Towards a new class of nonlinear optics nanomaterials.

Željka Sanader, Marjan Krstić, Isabelle Russier-Antoine, Franck Bertorelle,
Philippe Dugourd, Pierre-François Brevet, Rodolphe Antoine* and Vlasta
Bonačić-Koutecký*

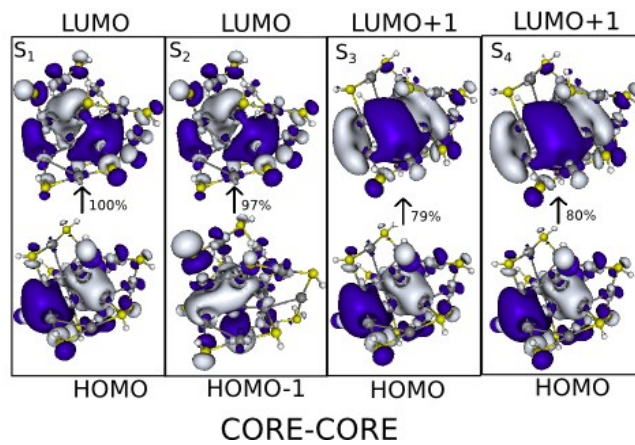


Fig. S1. Analysis of transitions of absorption for Ag₁₅SH₁₁ in terms of leading excitations between Kohn-Sham orbitals

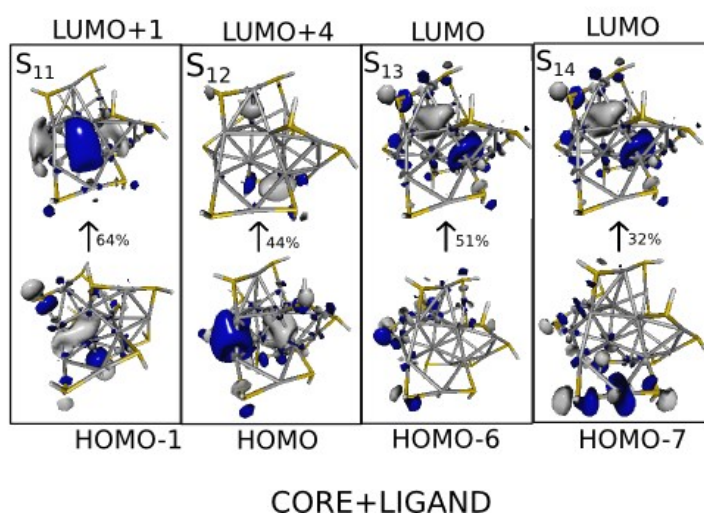
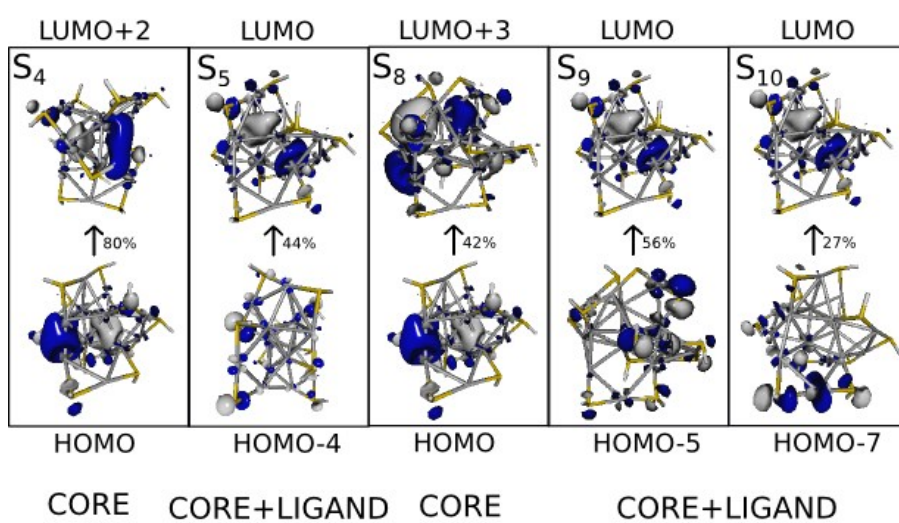


Fig. S2. Analysis of transitions of two-photon absorption for $Ag_{15}SH_{11}$ in terms of leading excitations between Kohn-Sham orbitals .

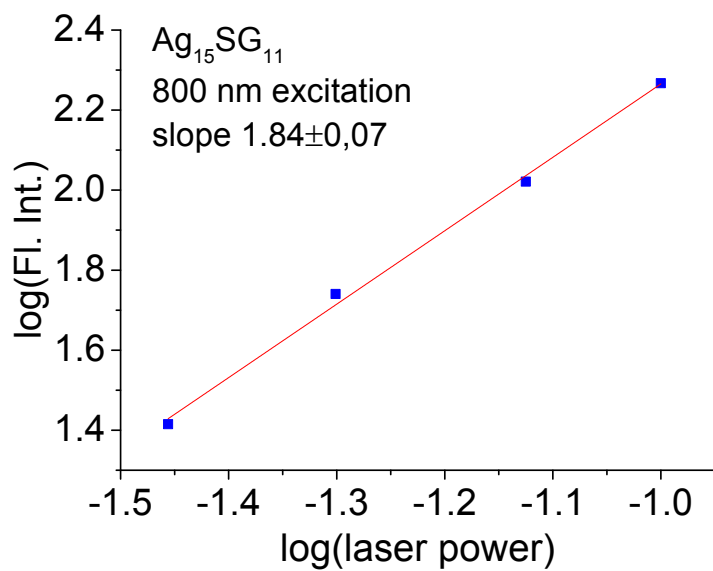
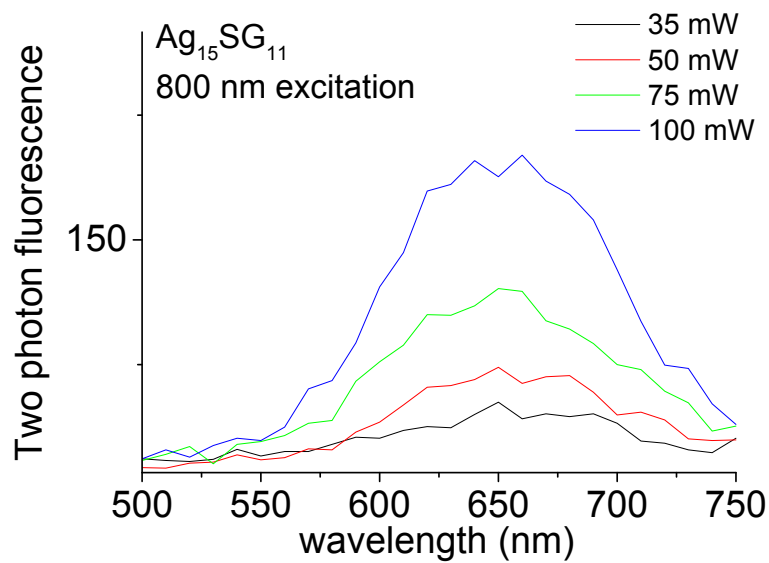


Fig. S3 : Two-photon emission spectra at different pump powers for Ag₁₅SG₁₁ clusters after excitation at 800 nm (top). Power dependence of emission is also provided (bottom).