

Electronic Supporting Information (ESI)

Microsecond Charge Separation upon Photoexcitation of gold nanoparticles in Imidazolium Ionic Liquids

Carmela Aprile,^a María Ángeles Herranz,^b Esther Carbonell,^a Hermenegildo Garcia,^{a,*} and Nazario Martín^{b,*}

^a Instituto de Tecnología Química CSIC-UPV and Departamento de Química, Universidad Politécnica de Valencia, Av. de los Naranjos s/n, 46022 Valencia, Spain. Fax: (+34) 96-387-7349; E-mail: hgarcia@qim.upv.es

^b Departamento de Química Orgánica I, Facultad de Química, Universidad Complutense de Madrid, E-28040, Madrid, Spain. Fax: (+34) 91-394-4103; E-mail: nazmar@quim.ucm.es

Figure S1. Statistical analysis of colloidal gold particle size distribution.

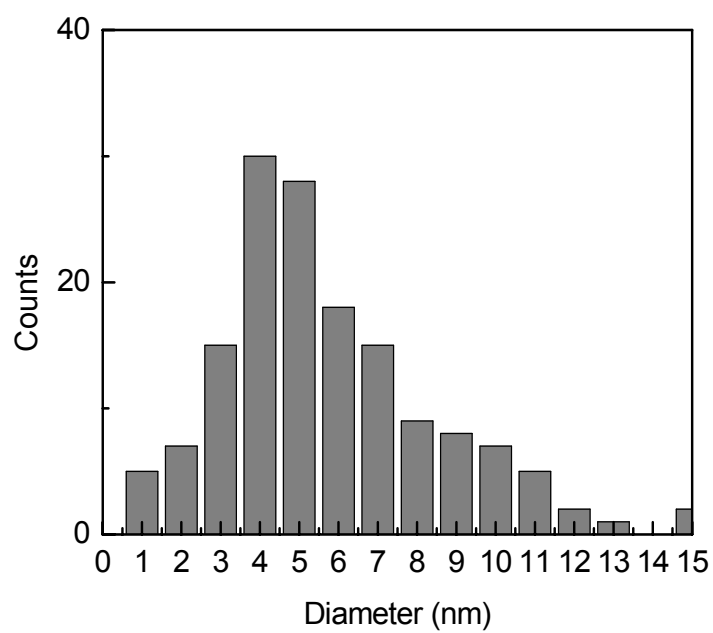
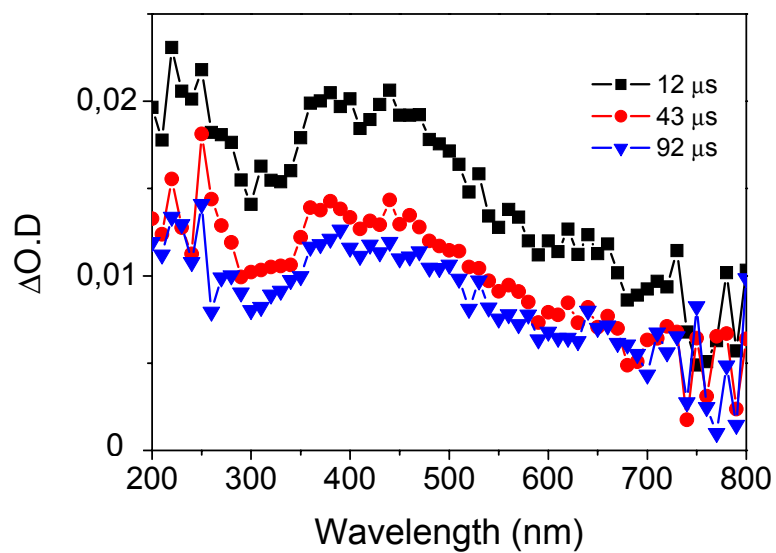
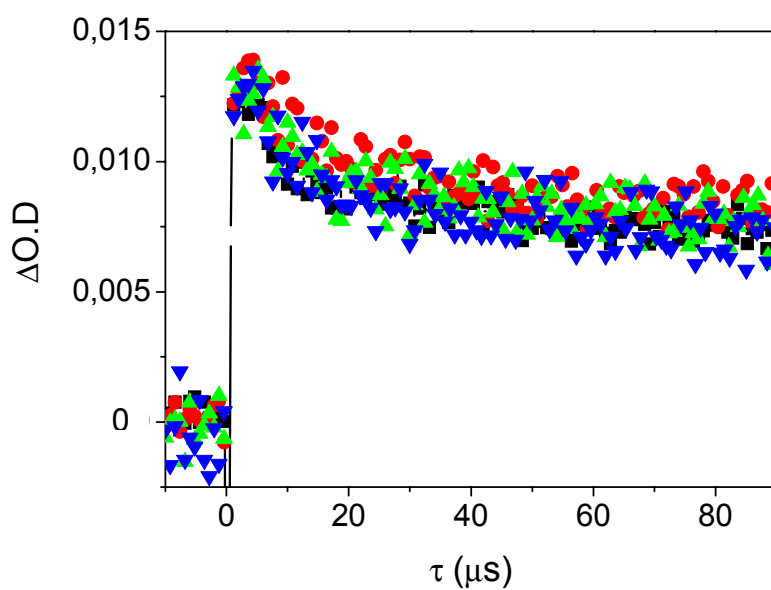


Figure S2. Transient spectrum of npAuC₁₂ in bmimPF₆ after excitation at 355 nm.

Normalized decays of the signal monitored at 420 (■), 510 (●), 580 (▲) and 620 (▼) nm of npAuC₁₂ in bmimPF₆



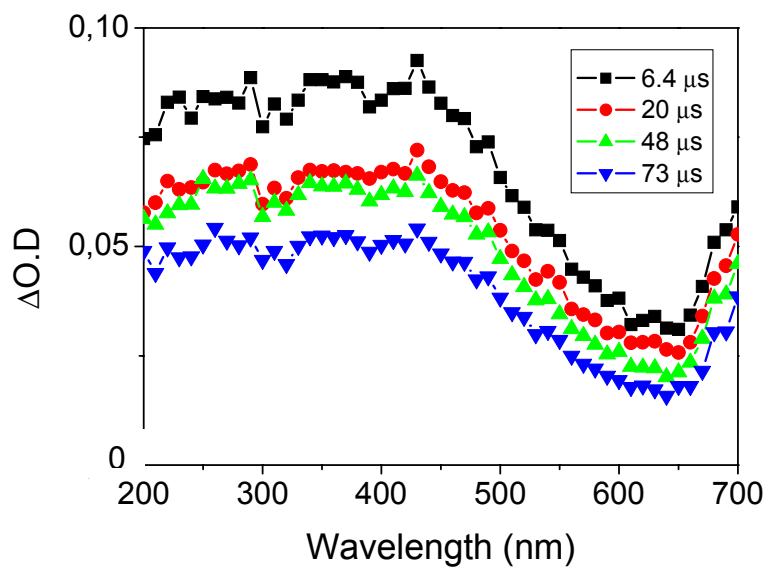


Figure S3. Transient spectrum of npAuC₁₈ in bmimPF₆ after excitation at 355 nm.

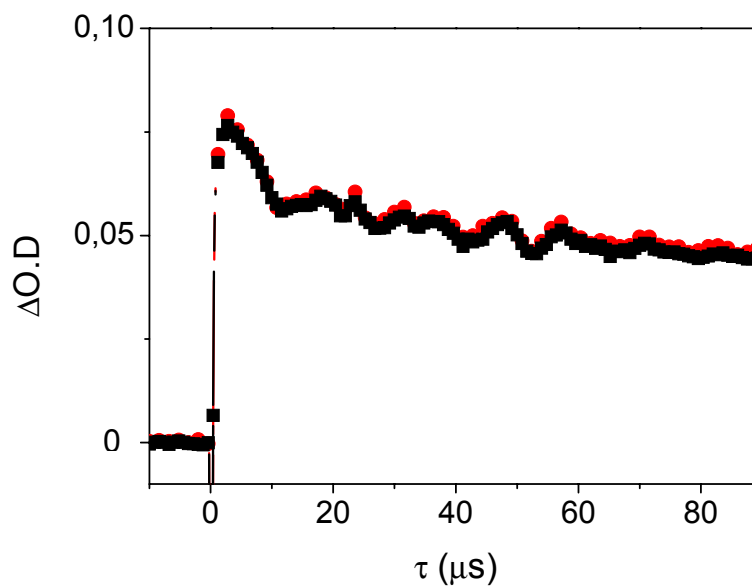


Figure S4. Normalized decays of the signal monitored at 375 (■) and 470 (●) nm in

N₂-purged bmimPF₆ solutions of npAuC₁₈.