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 ✓ Amphiphilic <i>F</i>-ligands have been used succesfully in the passivation of gold NPs whic become very stable and soluble in organic solvents and in water ✓ <i>F</i>-ligands when in the monolayer become interesting tools to introduce new features and the properties of F nucleous ✓ mixtures of <i>F</i>- and <i>H</i>-ligands enable to control the morphology of mixed-monolayers graphted on spherical gold surfaces. Moreover, they show phase segregation independently on the monolayer composition. This behaviour may favor multivalent recognition and cooperative catalysis processes
✓ The properties of mixed-monolayers are different from those of the parent homoligand monolayers
 ✓ Gold NPs coated with fluorinated ligands present features suitable for ¹⁹F MRI ✓ These monolayers may be used on NP of different materials
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