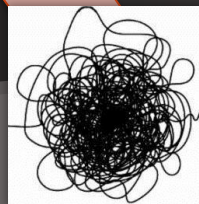


# “Metal Phosphide Nanoparticles for Catalysis and Energy Storage”

Where, When, What...



2002-2004



2004



Master 2  
2007-2008



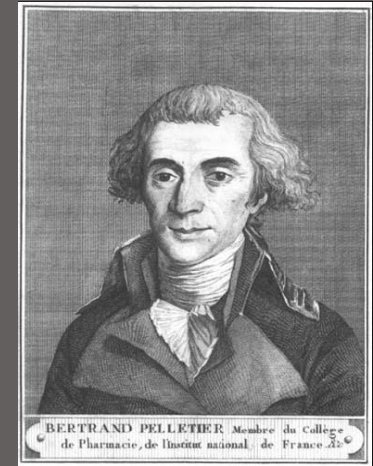
Thèse  
2008-2011



Post-doc  
2012...



# “Metal Phosphide...”

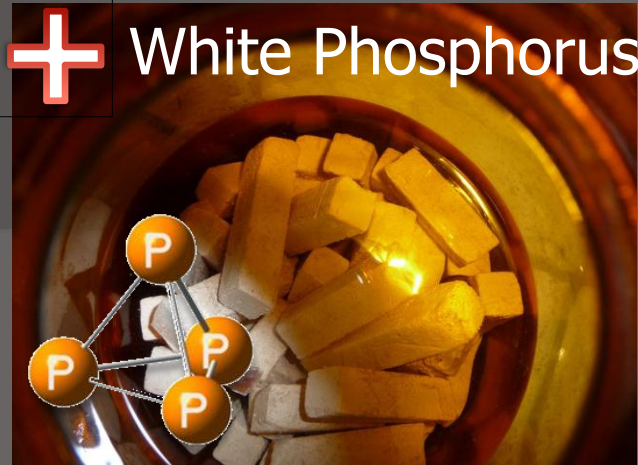


Bertrand Pelletier  
(1761 – 1797)


Melted Metal



+ White Phosphorus



## Health Rocks



### Exotic Materials

5 The Odessa Meteorite  
Odessa, Ector County, Texas, USA  
Iron. Coarse octahedrite  
N14747

This cut section shows two black inclusions made up of carbide, sulphide and phosphide minerals.

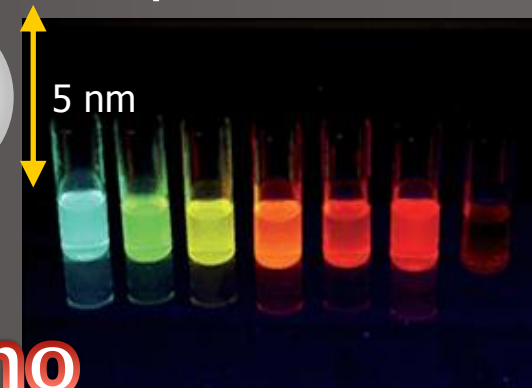
# Metal Phosphide Nanoparticles ...

GaP **Bulk**



*versus*

InP quantum dots



**Nano**

UPMC

SORBONNE UNIVERSITÉS

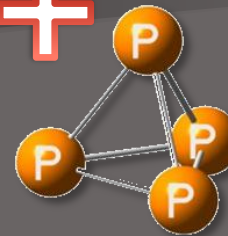
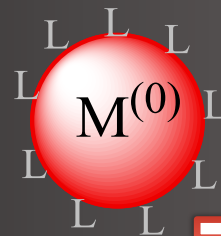


COLLÈGE  
DE FRANCE  
1530

Clément Sanchez



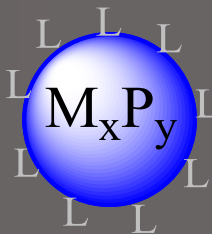
Nicolas Mézailles



in solution



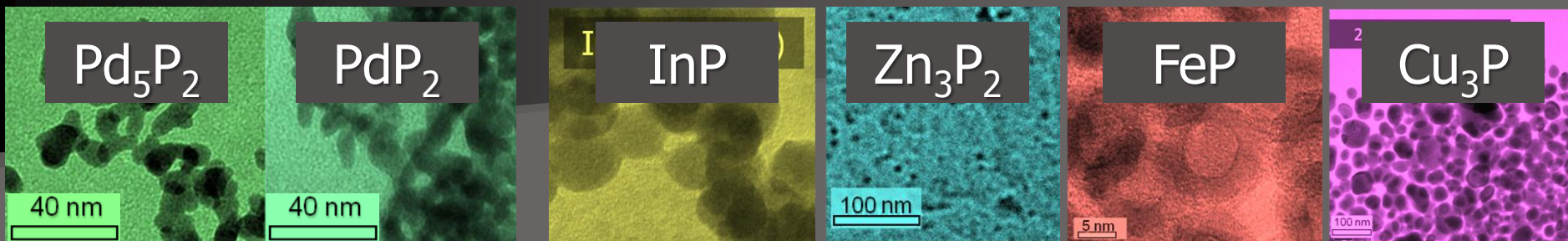
Mild conditions  
Stoichiometric reaction



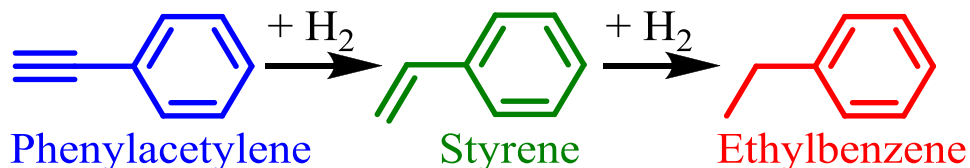
# Metal Phosphide Nanoparticles ...



*Chem. Comm.*  
2008, 2010  
*Chem. Mater.*  
2010, 2011, 2012  
*Chem. Rev.*  
in preparation



# Metal Phosphide Nanoparticles... for Catalysis and Energy Storage!



**Selectivity**

