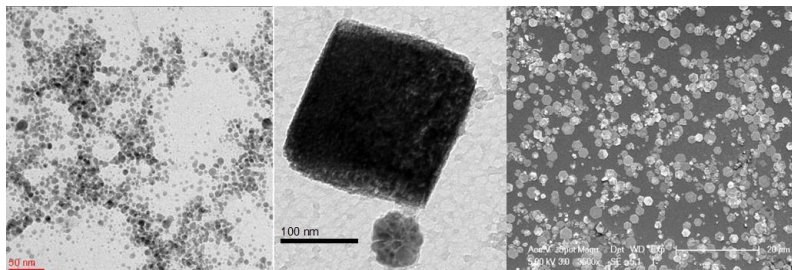


## Our skills

# Ultra-rapid nanoparticles synthesis using discharges in dielectric liquids



### YOUR NEEDS

- Nanoparticles synthesis (from 1 to 100nm) without exposing the manipulator
- Proposition of new functionalities (catalysis, optics)
- Bimetallic nanoparticles, oxides, metal alloys and core-shells manufacture

### OUR SOLUTIONS

- Pulse discharges in dielectric liquids (distilled water, liquid nitrogen, oils, etc.)
- Discharges in contact with liquids
- Laser treatments

### KEYWORDS

Nanoparticles, discharges, laser, liquids, oxides, metals, core-shells

### RELATED SKILLS

- Discharges in physics and chemistry
- Electrolytic Plasmas
- Development and control of plasma processes
- Optical emission spectroscopy
- Magnetic measurements
- Structural and microstructural characterization of particles:
  - Transmission electron microscopy
  - X-ray diffraction
  - Size distribution measurement
  - Zeta potential measurement

### OUR REFERENCES

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