

“HEATING TRIGGERED DRUG RELEASE FROM NANOMETRIC INORGANIC – METAL-ORGANIC FRAMEWORK COMPOSITES”

An EU Innovative Training Network aims to train the next generation of material scientists in a highly interdisciplinary and intersectorial research environment.

4 years Project **March 2020 to February 2024**

ONLINE Scientific Workshop on Plasmonic NPs: synthesis, characterization and applications (March 15-17, 2021)

REGISTRATION <https://bit.ly/30vePAo>

WORKSHOP PROGRAMME

15/03/21 – Session 1. Synthesis and Self-Assembly of Plasmonic Nanomaterials

- 9:00 - 9:05: Opening remarks: Pablo del Pino (CiQUS, USC)
- 9:05 - 9:50: *Fundamental Properties of Unconventional Plasmonic Nanoparticles. Invited talk*
Ilka Kriegel, IIT Italian Institute of Technology
- 9:50 - 10:35: *Self-assembly of Plasmonic NPs for SERS Sensing. Invited talk*
Nicolas Pazos-Perez, Universitat Rovira i Virgili
- 10:35 - 10:45: Intermission
- 10:45 - 11:30: *Ultrafast Laser Interaction with Plasmonic Nanoparticles. Invited talk*
Andrés Guerrero Martínez (Departamento de Química Física, Universidad Complutense de Madrid)
- 11:30 - 12:15: *Seeded Growth of Plasmonic Heterostructures. Invited talk*
Jorge Pérez Juste, CINBIO, Universidade de Vigo
- 12:15 - 13:15: Intermission
- 13:15 - 15:00: **Practical training (videos)** on synthesis of plasmonic nanoparticles

16/03/21 – Session 2. Functionalization and Characterization

- 9:00 - 9:05: Opening remarks: Pablo del Pino (CiQUS, USC)
- 9:05 - 9:50: *Multifunctional Magneto-Optical Nanoparticles for Medical Imaging and Biosensing. Invited talk*
Stefan Schrittwieser, AIT Austrian Institute of Technology
- 9:50 - 10:35: *Colloidal Synthesis of Plasmonic Nanoparticles. Invited talk*
Marek Grzelczak (Materials Physics Center, CSIC-UPV/EHU).
- 10:35 - 10:45: Intermission
- 10:45 - 11:30: *Functionalized Plasmonic Nanoparticles for Bio-Applications. Invited talk*
Ester Polo (CiQUS, USC).
- 11:30 - 12:15: *Applications of Nanoparticles in Photoacoustic and Optical Coherence Tomography. Invited talk*
Mengyang Liu (Center for Medical Physics and Biomedical Engineering Medical University of Vienna).
- 12:15 - 13:15: Intermission
- 13:15 - 15:00: **Practical training (videos)** on characterization of plasmonic nanoparticles

17/03/21 – Session 3. Applications

- 9:00 - 9:05: Opening remarks: Pablo del Pino (CiQUS, USC)
- 9:05 - 9:50: *Basic Concepts in SERS and Potential Applications. Invited talk*
Ramón A. Álvarez-Puebla (ICREA, Universitat Rovira i Virgili)
- 9:50 - 10:35: *Plasmonic Photothermal Release. Invited talk*
Wolfgang J. Parak (University of Hamburg)
- 10:35 - 11:00: Intermission
- 11:00 - 11:45: *Toward Simultaneous SERS Imaging and Sensing in 3D. Invited talk*
Luis Liz-Marzán (CIC biomaGUNE)
- 11:45 - 12:30: *Photodynamic Therapy and Plasmonics. Invited talk*
Santiago Nonell Marrugat (IQS School of Engineering, Universitat Ramon Llull)
- 12:30 - 12:35: Concluding remarks: Pablo del Pino (CiQUS, USC)
- 12:35 - 13:15: Intermission
- 13:15 - 15:00: **ESR´s Round Table** (restricted event, coordinated by Manuel Ceballos- ESR4)