



**Nombre:** Juan Peña López

**Email:** [juanpena@ucm.es](mailto:juanpena@ucm.es)

**Teléfono de contacto:** 91 394 1870

**Posición y cargo:** Profesor Titular de Universidad. Subdirector del Departamento de Química en Ciencias Farmacéuticas.

**Grupo de Investigación:** Grupo Investigación Biomateriales Inteligentes (GIBI)

**Docencia:** Curso 2019/2020 → Grado en Farmacia: Química General e Introducción al Laboratorio, Química Inorgánica, Bioinorgánica y Biomateriales.

**Área de Conocimiento:** Química Inorgánica

**ORCID:** 0000-0002-5992-908X **Researcher ID:** E-5913-2018 **Scopus Author ID:** 7402535178

**Biography:** Juan Peña López received his B.Sc (1991) and Ph.D. (1997) in Pharmacy from The University Complutense de Madrid (UCM). Then he received a NATO grant to stay one year in the Calcium Phosphate Lab. Dental Research Centre (New York University). In a first stage he worked in the synthesis and characterization of semiconductor, superconducting and magnetic materials as bulk powder or thin films. Subsequently, his research has aimed to the preparation and characterization of biomaterials. In particular, he has focused on the development of 3D-scaffolds with designed and controlled porosity consisting of bioactive ceramics and polysaccharide-based hydrogels capable of hosting different bioactive molecules. These pieces can be tailored to fit specific defects resulting from a particular pathology and have been successfully implanted in diverse experimental animals (mice, rabbits and pigs). Finally, he has developed a line of research in the preparation of low environmental impact construction materials, self-cleaning materials and photocatalytic materials for the degradation of pigments and pharmaceutical residues in wastewaters.

**Research Interest:** Biomaterials, Scaffolds, Bone Substitutes, Polysaccharide-based Hydrogels, Drug Release, 3D-printing, Self Cleaning Materials, Photocatalytic Degradation.