



**Nombre:** Rafael Contreras Cáceres

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**Posición y cargo:** Atracción de Talento Comunidad de Madrid

**Grupo de Investigación:** Materiales nanoestructurados y bioactivos (MATNABIO)

**Docencia:** Grado en Farmacia. Master en Biomateriales

**Área de Conocimiento:** Química en Ciencias Farmacéuticas

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**Researcher ID:** K-4187-2017

<https://www.ucm.es/matnabio>

#### **Biography:**

Dr. Rafael Contreras Cáceres is postdoctoral researcher (Atracción de Talento fellowsip) working at the Complutense University of Madrid from May 2019. In 2008 he joined to the Prof. Luis Liz-Marzán group (University of Vigo) working in the synthesis of hybrid colloidal systems for SERS applications. In 2011 he worked at the Prof. Manfred Stam group (IPF, Dresden) in the incorporation of metal nanoparticles on polymer brushes for sensor and catalytic applications. In 2012 he obtained a Marie Corie co-fund fellowship and he joined to the Prof. Chengzhi Cai group (University of Houston) working in the bio-functionalization of silicon surfaces. After that, he worked as postdoctoral researcher in the University of Málaga until 2019. During this period of time he also joined to the Prof. Andreas Fery (IPF, Dresden) working in the fabrication of metallic and bimetallic non-spherical nanoparticles for plasmonic application. He has published 46 papers (most of them in high impact factor) and 3 book chapters.

#### **Research Interest:**

Metal nanoparticles, hybrid microgels, core@shell particles, bimetallic nanoparticles, SERS spectroscopy.