Frontier Chemistry Center 講演会
フロンティア化学教育研究センター

演 題：**Cobalt and gold nanomaterials for glycerol oxidation**

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※Zoom online platform

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要 旨：The search for renewable sources and sustainable processes for affordable chemicals, materials and clean energy production is a topic of major scientific and industrial interest to fulfill the 2030 Agenda of the United Nations and The Sustainable Development Goals. In this regard, alcohols valorization to produce aldehydes and carboxylic acids is an interesting reaction because those chemicals are key intermediates in organic synthesis, pharmaceuticals, industrial chemicals production and materials development. Glycerol is a byproduct of the biodiesel industry and tremendous efforts have been undertaken in the last decades to selectively convert glycerol into added-value chemicals. One important product that can be obtained from glycerol is lactic acid from which industrial chemicals and biodegradable polymers can be produced. In this lecture, we will discuss the results obtained at the research group QUIREMA in the study of cobalt oxide and gold-based heterogeneous catalysts for converting glycerol to lactic acid. In particular, the influence of the composition of the catalyst and the acid-base properties of the support in activity and selectivity were evaluated as well as the stability of the different catalysts under reaction conditions.

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