Special Issue

Solar Fuels Production by Artificial Photosynthesis

Message from the Guest Editors

Solar fuels production by artificial photosynthesis, comprising water splitting, photoreforming, and CO2 reduction via photocatalysis and photoelectrochemistry, is among the most important emerging technologies to address the challenges that humanity faces today on the way towards sustainable development. Catalytic materials—photocatalysts and photoelectrodes—lie at the heart of these processes, being able to harvest (sun)light, separate charge carriers, and promote reactions of interest on their surface. Accordingly, remarkable research effort is being devoted to the development of these catalysts. This Special Issue aims at gathering current scientific advancements in this area, with a special focus on catalysts and devices.

Guest Editors

Dr. Víctor A. de la Peña O'Shea

Photoactivated Processes Unit, IMDEA Energía, Ramón de la Sagra, 3, Móstoles, Madrid, Spain

Dr. Gerardo Colón Ibañez

Institute of Materials Science of Seville, Seville, Spain

Dr. Fernando Fresno

Instituto de Catálisis y Petroleoquímica (ICP), CSIC, Marie Curie, 2, Cantoblanco, 28049 Madrid, Spain

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
catalysts@mdpi.com

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Prof. Dr. Keith Hohn
Carl R. Ice College of Engineering, Kansas State University, Manhattan, KS, USA

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