Special Issue

Remote Sensing and Chemistry of Oxygen and Ozone

Message from the Guest Editor

We would like to invite contributions about remote sensing and chemistry of oxygen and ozone in the Earth's atmosphere, planetary atmospheres of the solar system, exoplanetary atmospheres, comets, starforming regions and other places in the universe. This Special Issue will reveal synergies and new aspects of the different remote sensing techniques and their applications. In the Earth's atmosphere, long-term monitoring of the ozone layer is important for mankind, as well as remote sensing of tropospheric ozone. Remote sensing of oxygen isotopes enhances our knowledge about the circulation of the atmosphere and the age of air. Oxygen and ozone are regarded as biosignatures, rendering the detection of oxygen and ozone in planetary and exoplanetary atmospheres an exciting challenge. The design of new space missions, telescopes, spectrometers and retrieval techniques for finding the weak signals of oxygen and ozone in space are driven by the search for extraterrestrial life and habitability.

Guest Editor

Dr. Klemens Hocke

1. Institute of Applied Physics, University of Bern, CH-3012 Bern, Switzerland
2. Oeschger Centre for Climate Change Research, University of Bern, CH-3012 Bern, Switzerland

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

mdpi.com/journal/oxygen

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Prof. Dr. John T. Hancock
School of Applied Sciences, University of the West of England, Bristol, UK

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