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Oxygen

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Message from the Editor-in-Chief

Oxygen is instrumental to life, is part of the atmosphere, and is also embedded in many industrial processes. The understanding of the roles and influences of oxygen is crucial to understanding normal physiology, as well as numerous diseases. For example, the production of reactive oxygen species and their removal by antioxidants underpins many aspects of biochemistry, not least in stress responses. The chemistry of oxygen and compounds derived from oxygen are often integral in sensor technology and various industrial practices. It is also important for space research, not least if space exploration is to go to the farther reaches of the solar system.

Our journal, *Oxygen*, serves as an authoritative source of information on current topics of research in the area of oxygen chemistry, as well as on the range of roles and uses of oxygen. Oxygen research has had a long history and will continue to be important in the future. *Oxygen* is becoming a key forum for researchers to bring their findings on this important chemical to the forefront.

Editor-in-Chief

Prof. Dr. John T. Hancock

Aims

Oxygen (ISSN 2673-9801) is an international, peer-reviewed, open access journal that publishes original research in the areas of chemistry, biology and biomedicine that all relate to oxygen. The aim is to provide a platform for research and findings regarding oxygen studies and related topics, including: chemical properties of oxygen and reactions in which it is involved, the role of oxygen in biological systems, reactive oxygen species, antioxidants and redox reactions, etc.

Oxygen publishes regular research articles, reviews and short notes. We encourage scientists to publish their experimental and theoretical results in as much detail as possible. Therefore, there is no restriction on the maximum length of the papers. For theory papers, full details of proofs must be provided so that results can be checked. For experimental papers, full experimental details must be provided so that the results can be reproduced. Additionally, electronic files or software regarding the full details of the calculations, experimental procedure, etc., can be deposited, along with the publication as 'Supplementary Material'.

Scope

- Chemical properties of oxygen;
- Oxides;
- Oxygen reduction reaction;
- Reactive oxygen species and oxygen free radicals;
- Antioxidants;
- Chemical properties of oxides;
- Oxygen exhibits high reactivity;
- Oxygen molecular structures;
- Oxygen acid–base reactions;
- Redox reactions;
- Uses of oxygen;
- Diatomic oxygen;
- Physical properties of oxygen;
- Chemical reactivity of oxygen;
- Atmospheric oxygen;
- Oxygen-based therapies.

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