## Special Issue

# Phosphorus Ligands for the Stabilization of Unusual and Elusive Structures in Transition Metal Complexes

## Message from the Guest Editor

Phosphines and related P(III) ligands constitute one of the most-used classes of ligands in coordination and organometallic chemistry and have great potential for application in homogeneous catalysis. Their electronic and steric characteristics can easily be tuned by varying the three substituents on the phosphorus atom, thus covering an ample range of properties that span from small strong ⊠-donating ligands such as PMe3 to bulky less-basic π-accepting ligands such as tris(otolyl)phosphite. P(III) ligands, in either the monodentate form or a polydentate/hybrid form, have played a crucial role in the stabilization of elusive species and unusual structures within transition complexes, allowing for the alkane adducts, non-heteroatom-stabilized alkylidenes, and low-coordinate unsaturated species, among others. With this Special Issue, we aim to present a collection of research and review articles dedicated to the design and applications of phosphines and related ligands, with special reference to the stabilization of elusive and unusual structural motifs in transition metal complexes.

## **Guest Editor**

Prof. Dr. Riccardo Peloso

Instituto de Investigaciones Químicas (IIQ), Departamento de Química, Inorgánica and Centro de Innovación en Química Avanzada (ORFEO-CINQA), Consejo Superior de Investigaciones Científicas (CSIC) and Universidad de Sevilla, Avenida Américo Vespucio 49, 41092 Sevilla, Spain

## Deadline for manuscript submissions

closed (31 May 2023)



# **Inorganics**

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 4.1



mdpi.com/si/63711

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

mdpi.com/journal/ inorganics





# **Inorganics**

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 4.1



## **About the Journal**

## Message from the Editor-in-Chief

Inorganic chemistry remains a lynchpin of modern chemistry, not only embracing the function and reactivity of combinations of most elements of the periodic table, but also providing a footing for studies of materials, catalysts, drugs, fuels and industrial chemicals.

Arguably, the role and reach of inorganics in society have never been as great as today. Adventurous research at the heart and at the extremes of inorganic chemistry is vital to further advances and Inorganics offers authors the opportunity to publish exciting new research in an open access format.

## Editor-in-Chief

Prof. Dr. Duncan H. Gregory

School of Chemistry, University of Glasgow, University Avenue, Glasgow G12 8QQ, UK

### **Author Benefits**

## **High Visibility:**

indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Chemistry, Inorganic and Nuclear) / CiteScore - Q2 (Inorganic Chemistry)

## **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.6 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the first half of 2025).

