Special Issue

Evaluation of the Potential Biological Activity of Metallo-Drugs

Message from the Guest Editors

Until now, cisplatin, a platinum(II) complex which is an indispensable part in the therapy of various types of tumors, has demonstrated most success. However, serious side effects and drug resistance during its application limit the clinical use of cisplatin, leading many scientists to design new platinum complexes that are structurally similar to cisplatin. Today, research is directed toward complexes of ions of other transition metals such as palladium(II), gold(III), ruthenium(II), osmium(II), rhodium(III), copper(II), etc. In order to evaluate potential antitumor activity, selectivity of action and toxicity of metallo-drugs, it is necessary to examine the kinetics and mechanism of their reactions with DNA segments, as well as with DNA molecules themselves. Thus, the study of interaction between transition metal complexes and serum albumin proteins can provide useful information about the therapeutic efficiency of the drug. In this Special Issue, we wish to publish the latest developments in the design of transition metal-based compounds and their potential clinical applications through original research articles and short critical reviews.

Guest Editors

Dr. Snežana Jovanović-Stević
University of Kragujevac, Faculty of Medical Sciences, Department of Pharmacy, Svetozara Markovića 69, 34000 Kragujevac, Serbia
Dr. Jovana V. Bogojeski
Faculty of Science, University of Kragujevac, Radoja Domanovića 12, 34000 Kragujevac, Serbia

Deadline for manuscript submissions

closed (30 June 2025)

Inorganics

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 5.3

mdpi.com/si/192736

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 3.4
CiteScore 5.3

mdpi.com/journal/inorganics

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 12.6 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2026).

MDPI