

Special Issue

Advances in Electron Spin Resonance (ESR) Spectroscopy

Message from the Guest Editors

The electron spin resonance (ESR) method is a powerful tool for studying the structure and dynamics of paramagnetic species, including free radicals. It can be used in various fields of research, such as biology and medicine, application of nanomaterials and polymers, dating of geological and archaeological finds, and environmental studies. It is also popular as a method of imaging. The aim of this Special Issue on "Advances in ESR Spectroscopy" is to highlight the wide possibilities of applying this method in various fields of research as well as showing the currently developed ways of its improvement. It covers the application of the ESR method in different areas, such as interactions between complex materials and biological structures, the impact of irradiation on studied samples, the application in food and environmental sciences as a tool for dating in geology and archaeology, the use of new spin labels and traps, control of chemical reactions related to radicals processes, and imaging in biology and medicine. It is our pleasure to invite you to contribute an original research paper, a short communication, or a review to this issue.

Guest Editors

Prof. Dr. Bernadeta Dobosz

Functional Materials Physics Division, Faculty of Physics, Adam Mickiewicz University in Poznań, Uniwersytetu Poznańskiego 2, 61-614 Poznań, Poland

Dr. Paweł Ramos

Department of Biophysics, School of Pharmacy and Division of Laboratory Medicine in Sosnowiec, Medical University of Silesia in Katowice, Jedności 8, 41-200 Sosnowiec, Poland

Deadline for manuscript submissions

closed (20 April 2023)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/120801

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

mdpi.com/journal/

[appls](https://appls.mdpi.com)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

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

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)