Special Issue

Recent Advances in Prospecting Geology

Message from the Guest Editor

Prospecting geology focuses on identifying and evaluating mineral and resource deposits, playing a pivotal role in advancing our understanding of Earth's and planetary materials. Traditional geological techniques are now frequently combined with innovations such as remote sensing, geophysical surveying, geochemical analysis, and machine learning. These advancements, particularly incorporating deep learning, have significantly enhanced the efficiency and accuracy of resource prospecting, enabling a more precise identification and characterization of ore deposits and other resources This Special Issue, titled "Recent Advances in Prospecting Geology", focuses on resource prospecting using geological, geochemical, geophysical, and remote sensing methods. Contributions from a wide range of fields, including economic geology, mineralogy, marine geology, planetary sciences, and engineering, are sought.

Keywords

- ore deposits
- remote sensing
- geophysics
- geochemistry
- marine geology
- machine learning
- planetary geology

Guest Editor

Dr. Jakub Ciążela

Institute of Geological Sciences, Polish Academy of Sciences, Research Centre in Wrocław, ul. Podwale 75, 50-449 Wrocław, Poland

Deadline for manuscript submissions

30 September 2025

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/230144

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

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

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)