

## Special Issue

# Advances in Applied Geophysics

### Message from the Guest Editors

In the context of the increasing demand for knowledge of the physical properties of the Earth's crust with geophysical measurements, the development of new approaches for the characterization of the Earth's crust is a crucial issue.

This Special Issue aims to bring together the most recent works on the application of geophysical methods for the imaging of the Earth's crust along with the possible environmental, engineering, and hydrogeological applications, for the fine characterization of the near surface structure.

Without being exhaustive, the concerned methods are seismics, electromagnetics (e.g., magnetotellurics, time-domain electromagnetics, radar), active electrical methods (e.g., electrical resistivity tomography and induced polarization) or passive electrical methods (spontaneous potential), nuclear magnetic resonance, and even microgravimetry. Contributions focusing on the petrophysical laws, along with the application of modern satellite technique, such as satellite geodesy, interferometry, gravity etc., which may be combined with classical geophysical and seismological methods for the solution of geophysical problems are also welcome.

---

### Guest Editors

Prof. Dr. Filippos Vallianatos

Section of Geophysics-Geothermy, Department of Geology and Geoenvironment, National and Kapodistrian University of Athens, Zografou, 15784 Athens, Greece

Dr. Vassilis Sakkas

Department of Geophysics-Geothermics, Faculty of Geology and Geoenvironment, School of Sciences National and Kapodistrian University of Athens, Panepistimiopolis, Zografos, 157 84 Athens, Greece

---

### Deadline for manuscript submissions

closed (31 May 2022)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/51272](https://mdpi.com/si/51272)

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

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





# 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, CAPIus / SciFinder, and other databases.

#### Journal Rank:

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