



Recent Applications and Advances in Environmental Magnetism

Guest Editor:

Dr. Alessandra Venuti

Geomagnetism and
Environmental Geophysics,
Istituto Nazionale di Geofisica e
Vulcanologia, Rome, Italy

Deadline for manuscript
submissions:

closed (30 December 2022)

Message from the Guest Editor

Environmental magnetism is based on analyses of sediments' and rocks' magnetic properties. These are carried out in the field or at laboratory and are aimed at better understanding environmental processes and their variations in time and/or in space. The advantages of this method are the rapid and mostly non-destructive measurements and numerous applications. Magnetic parameters are successfully used as proxies e.g., in paleoclimate, paleoceanographic, and archeomagnetic studies, to identify tephra layers, to correlate stratigraphic sequences, and to monitor anthropogenic air and soil pollution. For these reasons, environmental magnetism is employed in the most important oceanic and continental drilling programs.

Over the last decade, the development of new techniques such as the use of the hysteresis and first-order reversal curve diagrams or out-of-phase magnetic susceptibility often related to instrument innovation has improved the efficiency of the method.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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.

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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q1 (*General Engineering*)

Contact Us

Applied Sciences Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](https://twitter.com/Applsci)