Special Issue

Recent Applications and Advances in Environmental Magnetism

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.

Guest Editor

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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.

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