

Special Issue

Groundwater Resources and Sustainable Water Management

Message from the Guest Editor

Water resource management in urban areas is extremely complex as a consequence of several factors that can change the natural hydrogeological balance and compromise groundwater resource quality.

Changes in drainage relationships, especially where man-made activities have an impact on the ground surface between overlapping aquifers (e.g., agricultural practices involving the use of plant protection products, pesticides, etc.) can generate the contamination of deeper and naturally more protected aquifers. These aspects are certainly amplified by climate change, which represents a potential threat to even the best management of the quality and quantity of groundwater resources, especially in urban areas. The aim of this Special Issue is to gather together high-quality papers highlighting the existing relationships between natural and/or anthropogenic causes, changes in groundwater resources quality and quantity, and subsidence phenomena in urban areas. Contributions may involve case studies, literature reviews, applied analyses with groundwater resource flow and transport models, and innovative groundwater withdrawal management models developed from a forecasting perspective.

Guest Editor

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