DESCRIPTION

The *Journal of Contaminant Hydrology* is an international journal publishing scientific articles pertaining to the contamination of subsurface water resources. Emphasis is placed on investigations of the physical, chemical, and biological processes influencing the behavior and fate of organic and inorganic contaminants in the unsaturated (vadose) and saturated (groundwater) zones, as well as at groundwater-surface water interfaces. The ecological impacts of contaminants transported both from and to aquifers are of interest. Articles on contamination of surface water only, without a link to groundwater, are out of the scope. Broad latitude is allowed in identifying contaminants of interest, and include legacy and emerging pollutants, nutrients, nanoparticles, pathogenic microorganisms (e.g., bacteria, viruses, protozoa), microplastics, and various constituents associated with energy production (e.g., methane, carbon dioxide, hydrogen sulfide).

The journal's scope embraces a wide range of topics including: experimental investigations of contaminant sorption, diffusion, transformation, volatilization and transport in the surface and *subsurface*; *characterization of soil and aquifer properties* only as they influence contaminant behavior; development and testing of *mathematical models of contaminant behaviour*; innovative techniques for *restoration of contaminated sites*; development of *new tools or techniques for monitoring the extent of soil and groundwater contamination*; *transformation of contaminants* in the hyporheic zone; *effects of contaminants* traversing the hyporheic zone on surface water and groundwater ecosystems; *subsurface carbon sequestration and/or turnover*; and *migration of fluids* associated with energy production into groundwater.

Types of paper

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Environmental monitoring. We are pleased to see field data, but we do not publish reports of, for example, unusual observations in the field unless they are interpreted at a process level. Similarly, we do not act as a public repository for datasets unless they are interpreted.

Case studies. We will not publish case studies unless they provide insight into processes relevant to other sites or conditions. Thus, a paper based on a particular site must draw out principles, prove a conceptual model, or develop and test a method; these principles, models, or methods must have broader applicability than to a site of study.

Methods. We are keen to see new methods of analysis, experimentation, field investigation, or interpretation developed and published. However the journal will not publish papers that present only method development, nor methods that have no major advance over existing approaches. Manuscripts that demonstrate how new or existing methods lead to new insights, or that extend the scope or demonstrate the practical use of existing methods will be welcome. Normally, measured data or
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The inverse of these comments on new models applies to papers that focus on experimental and field investigations. **It is not sufficient to present data**, no matter how elegant the experiment or interesting the field site! **Data must be interpreted with a conceptual model of processes so that the results are potentially valuable to other sites and experiments.**

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