

## Advances in In Situ Biological and Chemical Groundwater Treatment

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Deadline for manuscript  
submissions:  
**closed (31 January 2020)**

### Message from the Guest Editors

The increasing availability of scientific studies has progressively drawn attention to in situ remediation technologies for groundwater. Most of them are innovative compared to the “pump and treat” approach, and allow to reduce the remediation time and to increase remediation sustainability.

Various studies have shown that pesticides, industrial chemicals, solvents, fuel additives, and nitrate occur in groundwater. Recently, micropollutants originating from pharmaceuticals and personal care products and endocrine-disrupting compounds have posed an increasing concern.

A number of relevant pollutant mixtures can be present in groundwater as a non-aqueous phase liquid (NAPL), due to very low water solubility. In general, pollutants in a non-aqueous phase can be extremely persistent and the in situ remediation highly demanding.

Contributions are invited for manuscripts referring to innovative in situ technology for groundwater remediation, based on chemical or biological processes, from either traditional or emerging pollutants, and NAPLs.

For further reading, please visit the [Special Issue website](#)



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## Message from the Editor-in-Chief

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