

Research on Cold Regions Hydrology

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Message from the Guest Editors

Climate change is impacting the fluvial, glacial and lacustrine hydrology and the soil-water-ice dynamics in parts of the northern hemisphere where the winter temperatures dip below freezing. Change in precipitation and evapotranspiration rates and freezing degree-days are inducing rapid changes in runoff, erosion, agricultural development, landscape evolution and impact on existing infrastructures. Shift in snow cover, soil thermodynamics and freeze-thaw cycling influence physico-chemical environmental processes and present unique challenges for ecosystem and infrastructure management and water quality sustenance. This special issue invites contributions in three thematic areas related to cold regions hydrology: 1) Snow, ice and surface water; 2) Soil, sediments and groundwater systems; and 3) Physical modelling and advanced learning processes.[...]

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Special Issue



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Message from the Editor-in-Chief

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