Special Issue

Dispersion in Rivers, Estuaries and Costal Zones

Message from the Guest Editor

Dispersion is one of the processes that occurs during the transport of pollutants in flowing waters. The mass of the added substance, its momentum, and its energy are subject to dispersion. The phenomenon of the dispersion of mass, momentum, and energy is of great importance in transport processes in flowing waters, and, in particular, in the transport of pollutants. This process can be described by the transport equation referring to the gradient of the dispersing quantity, and its intensity depends on its determined or assumed coefficients. The commonly used methods for determining dispersion coefficients refer to the gradient velocity profile, typical for rivers. In the coastal zone, on the other hand, the velocity profile changes from gradient to drift, when shear stresses on the surface, caused by wind or the difference in density of fresh and salt water, begin to dominate. Articles on theoretical, physical, and numerical studies on the phenomenon of dispersion occurring in rivers, estuaries, and coastal waters are welcome.

Guest Editor

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In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

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