



Novel Ion-Exchange Membranes

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Message from the Guest Editors

Dear Colleagues,

Ion-exchange membranes were developed more than 50 years ago and have been applied to caustic soda manufacturing, energy production by fuel cell, salt production from the sea, pure water production from brackish water, nitrate nitrogen removal from groundwater, heavy metal ion removal from contaminated water, etc. Recently, they have begun to attract attention again as materials necessary for solving global environmental problems because they are capable of energy production and storage, as well as being useful for the removal of harmful pollutants. Furthermore, recent advances in nanotechnology are expected to lead to the emergence of new ion exchange materials, and are showing new developments in the progress of ion exchange membranes. We expect contributions from various fields for novel ion-exchange membranes.

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Message from the Editor-in-Chief

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