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Ion-exchange membranes are therefore electrically conductive. They are often used in desalination and chemical recovery applications, moving ions from one solution to another with little passage of water. Important examples of ion-exchange membranes include the proton-exchange membranes, that transport H +

Ion-exchange membrane - Wikipedia

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Fundamental study and industrial application of ion exchange membranes started over half a century ago. Through the ongoing research and development, the ion exchange membrane technology is now...

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Ion Exchange Membranes, Second Edition: Fundamentals and ...

Ion Exchange Membranes Fundamentals and Applications. Edited by Yoshinobu Tanaka. Volume 12, Pages 1-531 (2007) Download full volume. Previous volume. Next volume. Actions for selected chapters. Select all / Deselect all. Download PDFs Export citations. Show all chapter previews Show all chapter previews.

Membrane Science and Technology | Ion Exchange Membranes ...

Membrane capacitive deionization (MCDI) has emerged as an effective and energy efficient desalination technology for treating brackish water streams used in numerous industrial processes. Most material research studies on MCDI focus on improving the porous electrodes or using flowing electrode architectures, and little emphasis is given to the rationale design of ion-exchange membranes (IEMs ...

Low-Resistant Ion-Exchange Membranes for Energy Efficient ...

Ion exchange membranes (IEMs) are typically composed of hydrophobic substrates, immobilized ion-functionalized groups, and movable counter-ions. Depending on the type of ionic groups, IEMs are broadly classified into cation exchange membranes (CEMs) and anion exchange membranes (AEMs).

Ion exchange membranes: New developments and applications ...

Ion Exchange Membranes, 2nd edition states the ion exchange membrane technology from the standpoint of fundamentals and applications. It discusses not only various phenomena exhibited by membranes but also their applications in many fields with economical evaluations. This second edition is updated and revised, featuring ten expanded chapters.

Ion Exchange Membranes, Volume 12 - 2nd Edition

An ion-exchange membrane is a semi-permeable membrane that transports certain dissolved ions, while blocking other ions or neutral molecules. Ion-exchange membranes are therefore electrically conductive. They are often used in desalination and chemical recovery applications, moving ions from one solution to another with little passage of water.

Ion-exchange membrane - Wikipedia

Fundamental study and industrial application of ion exchange membranes started over half a century ago. Through the ongoing research and development, the ion exchange membrane technology is now applied to many fields and contributes to the improvement of our standard of living.

Ion Exchange Membranes, Volume 12 - 1st Edition

Ion exchangers are synthetic resins (organic polymers). Various exchange-active groups, at which ions accumulate, are built into the exchangers. In the exchange process, the ions of the solution to be treated are exchanged with accumulated ions with the same electrical charge on the resin.

Fundamentals ion exchange - HydroGroup

Ion Exchange Membranes, 2nd edition states the ion exchange membrane technology from the standpoint of fundamentals and applications. It discusses not only various phenomena exhibited by membranes but also their applications in many fields with economical evaluations. This second edition is updated and revised, featuring ten expanded chapters.

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Provides a comprehensive introduction to ion exchange for beginners and in-depth coverage of the latest advances for those already in the field As environmental and energy related regulations have grown, ion exchange has assumed a dominant role in offering solutions to many concurrent problems both in the developed and the developing world. Written by an internationally acknowledged leader in ...

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Ion Exchange Membranes eBook by Yoshinobu Tanaka ...

Abstract Electrodialysis (ED) can be applied in the food and fermentation industry for separating inorganic salts and organic ions from other fractions. However, the separation efficiency for small...

Separation of small organic ions from salts by ion ...

Pune, India, July 20, 2020 (GLOBE NEWSWIRE) -- The global Hydrocarbon Ion Exchange Membranes Market Size is estimated to be USD 300.0 million in 2020 and is projected to reach USD 408.2 million by ...

Hydrocarbon Ion Exchange Membranes Market Size To Reach ...

For Chlor-alkali ion exchange membrane market, the segments by region are for North America, Asia Pacific, Western Europe, Eastern Europe, Middle East, and Rest of the World. During the forecast period, North America, Asia Pacific, and Western Europe are expected to be major regions on the Chlor-alkali ion exchange membrane market.

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