

# Ion Exchange Materials: Technologies and Global Markets

<https://marketpublishers.com/r/I76BBE4F4C0EN.html>

Date: September 2023

Pages: 280

Price: US\$ 5,500.00 (Single User License)

ID: I76BBE4F4C0EN

## Abstracts

### Report Scope:

This report will cover the ion exchange materials industry. Definitive and detailed estimates and forecasts of the global market are provided, followed by a detailed analysis of the ion exchange resins/beads and membranes, application, and regions. It will also focus on the regulations and government-supported programs impacting this market. Regionally, the focus of study will be the markets of North America, Europe, Asia-Pacific, and the Rest of the World (RoW).

While applications for ion exchange materials other than those mentioned above do exist—sensors, for example—the market size for the materials in these industries is comparatively small. Therefore, these technologies are not covered within the scope of this report. In fact, only the applications and geographical regions listed in this chapter are considered in the subsequent market sections.

The report focuses on the global market for ion exchange materials by form factor (resin/beads, membranes), by end user (energy generation and storage [fuel cell systems, water electrolysis systems, redox flow batteries], water technologies [electrodialysis, ultrapure water generation, water softening, demineralization, wastewater treatment], separation and chemicals production [chlor-alkali processes, ion exchange chromatography, chemical catalysis, metal extraction and purification], power generation and electricity [condensate polishing, nuclear waste remediation], food production [sugar production, beverage production], pharmaceutical production {drug delivery, isolation and purification of biochemical substances}).

The report concentrates on ion exchange materials that are currently in commercial use

or are likely to be commercialized by 2028. Other applications that, while promising, are not likely to make it out of the laboratory by 2028 are not covered in depth. Sales value estimates are based on prices in the supply chain. Market-driving forces and industry structure are examined. International aspects are analyzed for all global regions.

#### Report Includes:

76 data tables and 69 additional tables.

An overview of the global market landscape related to the ion exchange materials and technologies.

In-depth analysis of global market trends, featuring historical revenue data for 2022 and estimated figures for 2023. This analysis includes projections of Compound Annual Growth Rates (CAGRs) spanning through 2028.

Evaluation of the current market size and revenue growth prospects specific to ion exchange materials, accompanied by a comprehensive market share analysis categorized by form factor, application, and geographical region.

Discussion of the major growth drivers, opportunities and challenges, technology updates, and impact of various macroeconomic variables influencing the market for ion exchange materials as a basis for projecting demand in the next few years (2023-2028).

In-depth information (facts and figures) concerning the major factors influencing the progress of this market (benefits, and industry-specific challenges) with respect to specific growth trends, upcoming technologies, regulations, prospects, and contributions to the ion exchange materials industry.

Review of the key patents grants and patent applications on ion exchange materials, along with emerging technologies and new developments in the global market over a brief period.

Discussion of the ESG trends and technologies, new developments and sustainable practices in the ion exchange materials industry.

Identification of the companies best positioned to meet the demand for ion

exchange materials in water treatment industry and various remediation projects, owing to or in conjunction with their proprietary technologies, merger and acquisition (M&A) activities, and other strategic advantages.

Analysis of the company competitive landscape based on recent developments, product portfolios, key financials and segmental revenues, as well as their operational integration.

Detailed profiles of leading market participants, including DuPont de Nemours Inc., Lanxess AG, Purolite, Mitsubishi Chemical Group, The Chemours Co., and Solvay S.A.

## Contents

### **CHAPTER 1 INTRODUCTION**

Overview  
Study Goals and Objectives  
Reasons for Doing This Study  
Scope of Report  
What's New in This Update?  
Research Methodology  
Information Sources  
Geographic Breakdown

### **CHAPTER 2 SUMMARY AND HIGHLIGHTS**

Market Outlook  
Market Summary

### **CHAPTER 3 MARKET OVERVIEW**

Overview  
Ion Exchange Materials  
Form Factor  
Key Properties of Ion Exchange Materials  
Ion Exchange Materials: A Brief History  
Ion Exchange Process  
Ion Exchange Models  
Equivalent Fraction  
Ion Exchange Capacity  
Selectivity  
Kinetics of Ion Exchange Processes  
Separation and Purification Processes  
Life Cycle Assessment of Ion Exchange Materials  
Regulatory Trends

### **CHAPTER 4 MARKET DYNAMICS**

Market Dynamics  
Market Drivers

Market Challenges and Restraints  
Recent Innovations  
Supply Chain  
Raw Material Producers  
Chemical Production Specialists  
Ion Exchange Material Producers  
Commodity Supply Chain  
Semiconductor Manufacturers  
Electronics Equipment Manufacturers  
Original Equipment Manufacturers  
Ion Exchange Equipment Manufacturers  
Distributors  
Engineering, Procurement and Construction Contractors  
Construction/installation Contractors  
End Users  
Waste Management and Disposal  
Impact of the Russia-Ukraine War on the Market for Ion Exchange Materials

## **CHAPTER 5 MARKET BY FORM FACTOR**

Overview  
Ion Exchange Resins/Beads  
Ion Exchange Membranes

## **CHAPTER 6 MARKET BY APPLICATION**

Overview  
Energy Generation and Storage  
Fuel Cells  
Water Electrolysis  
Redox Flow Batteries  
Water Technologies  
Electrodialysis  
Ultrapure Water  
Water Softening  
Demineralization  
Wastewater Treatment  
Separation and Chemical Production  
Chlor-Alkali Process

Chromatography  
Chemical Catalysis  
Metal Extraction and Purification  
Power Generation and Electricity  
Food and Beverages  
Sugar and Sweeteners  
Beverage Production  
Pharmaceutical  
Drug Delivery  
Isolation and Purification of Biochemical Substances

## **CHAPTER 7 MARKET BY REGION**

Global Market for Ion Exchange Materials  
North America  
Europe  
Asia-Pacific  
Rest of the World

## **CHAPTER 8 ESG DEVELOPMENTS**

Importance of ESG in the Ion Exchange Materials Industry  
ESG Ratings and Metrics: Understanding the Data  
Key ESG Issues in the Ion Exchange Materials Industry  
ESG Practices in the Ion Exchange Materials Industry  
Current Status of ESG in the Market for Ion Exchange Materials  
ESG Score Analysis  
Risk Scale, Exposure Scale, and Management Scale  
Risk Scale  
Exposure Scale  
Management Scale  
Case Studies: Examples of Successful ESG Implementation  
Environmental Initiatives  
Social Initiatives  
Governance Initiatives  
Outcomes  
Future of ESG: Emerging Trends and Opportunities  
Concluding Remarks from BCC

## **CHAPTER 9 EMERGING TECHNOLOGIES AND DEVELOPMENTS**

Key Highlights  
Key Trends in the Market  
Green and Sustainable Resins and Membranes  
Hybrid Technologies  
Circular Economy and Recycling  
Advanced Regeneration Techniques  
Membrane Hybridization  
Process Intensification  
Application Expansion  
Digitalization and Analytics  
High-Temperature and Acid-Resistant Membranes  
Selective and Specialty Resins/Membranes  
New Product/New Technology Development  
Patented Technologies

## **CHAPTER 10 PATENT ANALYSIS**

Patent Activity

## **CHAPTER 11 M&A AND VENTURE FUNDING OUTLOOK**

M&A Analysis  
Start-up Funding in Ion Exchange Materials

## **CHAPTER 12 COMPETITIVE INTELLIGENCE**

Overview  
Company Market Shares of Ion Exchange Materials  
Strategic Analysis

## **CHAPTER 13 COMPANY PROFILES**

**3M**

ASTOM CORP.  
AXPLORA

AGC INC.  
BIO-RAD LABORATORIES INC.  
CHEMOURS (THE CHEMOURS CO.)  
DUPONT DE NEMOURS INC.  
DIOXIDE MATERIALS  
EVOQUA WATER TECHNOLOGIES LLC  
EICHROM TECHNOLOGIES  
ECOSOFT BWT  
ECOLECTRO INC.  
FUJIFILM HOLDINGS CORP.  
ION EXCHANGE (INDIA) LTD.  
IONOMR INNOVATIONS INC.  
JACOBI CARBONS AB  
LANXESS AG  
MITSUBISHI CHEMICAL GROUP CORP.  
MEMBRANES INTERNATIONAL  
PUROLITE  
RESINTECH INC.  
SAMYANG CORP.  
SUNRESIN NEW MATERIALS CO., LTD.  
SALTWORKS TECHNOLOGIES INC.  
SUQING GROUP  
SNOWPURE LLC  
SOLVAY SA  
TAIYUAN LANLANG TECHNOLOGY INDUSTRIAL CORP.  
THERMAX LTD.

## **CHAPTER 14 APPENDIX: ACRONYMS**



## List Of Tables

### LIST OF TABLES

Summary Table : Global Market for Ion Exchange Materials, by Region, Through 2028

Table 1 : Ion Exchange Materials, by Form Factor

Table 2 : Ion Exchange Materials Regulations, Standards and Frameworks

Table 3 : Key Market Drivers for Ion Exchange Materials

Table 4 : Global Market for Ion Exchange Materials, by Form Factor, Through 2028

Table 5 : Global Market for Ion Exchange Resins/Beads, by Region, Through 2028

Table 6 : Global Market for Ion Exchange Membranes, by Region, Through 2028

Table 7 : Global Market for Ion Exchange Materials, by Application, Through 2028

Table 8 : Global Market for Ion Exchange Materials in Energy Generation and Storage Applications, by Region, Through 2028

Table 9 : Fuel Cell's Application Type

Table 10 : Global Market for Ion Exchange Materials in Fuel Cells, by Region, Through 2028

Table 11 : Global Market for Ion Exchange Materials in Fuel Cells, by Application, Through 2028

Table 12 : Global Market for Ion Exchange Materials in Water Electrolysis, by Region, Through 2028

Table 13 : Global Market for Ion Exchange Materials in Water Electrolysis, by Application, Through 2028

Table 14 : Global Market for Ion Exchange Materials in Redox Flow Batteries, by Region, Through 2028

Table 15 : Global Market for Ion Exchange Materials in Water Technologies, by Region, Through 2028

Table 16 : Global Market for Ion Exchange Materials in Electrodialysis, by Region, Through 2028

Table 17 : Global Market for Ion Exchange Materials in Ultrapure Water, by Region, Through 2028

Table 18 : Global Market for Ion Exchange Materials in Water Softening, by Region, Through 2028

Table 19 : Global Market for Ion Exchange Materials in Demineralization, by Region, Through 2028

Table 20 : Global Market for Ion Exchange Materials in Wastewater Treatment, by Region, Through 2028

Table 21 : Global Market for Ion Exchange Materials in Separation and Chemical Production, by Region, Through 2028

Table 22 : Global Market for Ion Exchange Materials in Chlor-Alkali Process, by Region, Through 2028

Table 23 : Global Market for Ion Exchange Materials in Chromatography, by Region, Through 2028

Table 24 : Global Market for Ion Exchange Materials in Chemical Catalysis, by Region, Through 2028

Table 25 : Global Market for Ion Exchange Materials in Metal Extraction and Purification, by Region, Through 2028

Table 26 : Global Market for Ion Exchange Materials in Power Generation and Electricity, by Region, Through 2028

Table 27 : Global Market for Ion Exchange Materials in Food and Beverage Applications, by Region, Through 2028

Table 28 : Global Market for Ion Exchange Materials in Sugar and Sweeteners, by Region, Through 2028

Table 29 : Global Market for Ion Exchange Materials in Beverage Production, by Region, Through 2028

Table 30 : Global Market for Ion Exchange Materials in Pharmaceutical Applications, by Region, Through 2028

Table 31 : Global Market for Ion Exchange Materials in Drug Delivery, by Region, Through 2028

Table 32 : Global Market for Ion Exchange Materials in Isolation and Purification of Biochemical Substances, by Region, Through 2028

Table 33 : Global Market for Ion Exchange Materials, by Region, Through 2028

Table 34 : North American Market for Ion Exchange Materials, by Country, Through 2028

Table 35 : North American Market for Ion Exchange Materials, by Form Factor, Through 2028

Table 36 : North American Market for Ion Exchange Materials, by Application, Through 2028

Table 37 : North American Market for Ion Exchange Materials in Energy Generation and Storage Applications, by Type, Through 2028

Table 38 : North American Market for Ion Exchange Materials in Water Technology Applications, by Type, Through 2028

Table 39 : North American Market for Ion Exchange Materials in Separation and Chemical Production Applications, by Type, Through 2028

Table 40 : North American Market for Ion Exchange Materials in Food and Beverage Applications, by Type, Through 2028

Table 41 : North American Market for Ion Exchange Materials in Pharmaceutical Applications, by Type, Through 2028

Table 42 : European Market for Ion Exchange Materials, by Country, Through 2028

Table 43 : European Market for Ion Exchange Materials, by Form Factor, Through 2028

Table 44 : European Market for Ion Exchange Materials, by Application, Through 2028

Table 45 : European Market for Ion Exchange Materials in Energy Generation and Storage Applications, by Type, Through 2028

Table 46 : European Market for Ion Exchange Materials in Water Technology Applications, by Type, Through 2028

Table 47 : European Market for Ion Exchange Materials in Separation and Chemical Production Applications, by Type, Through 2028

Table 48 : European Market for Ion Exchange Materials in Food and Beverage Applications, by Type, Through 2028

Table 49 : European Market for Ion Exchange Materials in Pharmaceutical Applications, by Type, Through 2028

Table 50 : Asia-Pacific Market for Ion Exchange Materials, by Country, Through 2028

Table 51 : Asia-Pacific Market for Ion Exchange Materials, by Form Factor, Through 2028

Table 52 : Asia-Pacific Market for Ion Exchange Materials, by Application, Through 2028

Table 53 : Asia-Pacific Market for Ion Exchange Materials in Energy Generation and Storage Applications, by Type, Through 2028

Table 54 : Asia-Pacific Market for Ion Exchange Materials in Water Technology Applications, by Type, Through 2028

Table 55 : Asia-Pacific Market for Ion Exchange Materials in Separation and Chemical Production Applications, by Type, Through 2028

Table 56 : Asia-Pacific Market for Ion Exchange Materials in Food and Beverage Applications, by Type, Through 2028

Table 57 : Asia-Pacific Market for Ion Exchange Materials in Pharmaceutical Applications, by Type, Through 2028

Table 58 : Rest of the World Market for Ion Exchange Materials, by Form Factor, Through 2028

Table 59 : Rest of the World Market for Ion Exchange Materials, by Application, Through 2028

Table 60 : Rest of the World Market for Ion Exchange Materials in Energy Generation and Storage Applications, by Type, Through 2028

Table 61 : Rest of the World Market for Ion Exchange Materials in Water Technology Applications, by Type, Through 2028

Table 62 : Rest of the World Market for Ion Exchange Materials in Separation and Chemical Production Applications, by Type, Through 2028

Table 63 : Rest of the World Market for Ion Exchange Materials in Food and Beverage

Applications, by Type, Through 2028

Table 64 : Rest of the World Market for Ion Exchange Materials in Pharmaceutical Applications, by Type, Through 2028

Table 65 : Interpretation of ESG Data in the Ion Exchange Materials Industry

Table 66 : ESG Carbon Footprint Issue Analysis

Table 67 : ESG Water and Waste Reduction Issues Analysis

Table 68 : ESG Diversity Issue Analysis

Table 69 : ESG Employee Safety and Labor Practices Issue Analysis

Table 70 : ESG Resource Efficiency and Emissions Issue Analysis

Table 71 : ESG Sustainable Supply Chain Issue Analysis

Table 72 : ESG Data Privacy and Security Issue Analysis

Table 73 : ESG Score Analysis of Market for Ion Exchange Materials, 2023

Table 74 : Risk Scale, Exposure Scale, and Management Scale

Table 75 : New Product/New Technology Development, Ion Exchange Materials Market, 2020-2023

Table 76 : Patented Technologies in the Ion Exchange Materials Market, 2019-2023

Table 77 : Patents on Ion Exchange Materials, 2018-2023

Table 78 : M&A in the Ion Exchange Materials Industry, January 2020–April 2023

Table 79 : Start-up Funding in the Ion Exchange Materials Industry, January 2020–March 2023

Table 80 : Global Market Shares of Ion Exchange Materials, by Leading Suppliers, 2022

Table 81 : Strategy Dashboard: Ion Exchange Materials, 2020–2023

Table 82 : 3M: Annual Revenue, 2022

Table 83 : 3M: News and Developments, 2022-2023

Table 84 : 3M: Product Portfolio

Table 85 : Astom Corp.: News and Developments, 2022

Table 86 : Astom Corp.: Product Portfolio

Table 87 : Explora: News and Developments, 2022

Table 88 : Explora: Product Portfolio

Table 89 : AGC Inc.: Annual Revenue, 2022

Table 90 : AGC Inc.: News and Developments, 2020-2022

Table 91 : AGC Inc: Product Portfolio

Table 92 : Bio-Rad Laboratories, Inc.: Annual Revenue, 2022

Table 93 : Bio-Rad Laboratories Inc.: News and Developments, 2018

Table 94 : Bio-Rad Laboratories Inc.: Product Portfolio

Table 95 : The Chemours Co.: Annual Revenue, 2022

Table 96 : The Chemours Co.: News and Developments, 2019-2023

Table 97 : The Chemours Co.: Product Portfolio

Table 98 : DuPont de Nemours Inc.: Annual Revenue, 2022

- Table 99 : DuPont de Nemours Inc.: News and Developments, 2021 and 2022
- Table 100 : DuPont de Nemours Inc.: Product Portfolio
- Table 101 : Dioxide Materials: Product Portfolio
- Table 102 : Evoqua Water Technologies: Annual Revenue, 2022
- Table 103 : Evoqua Water Technologies: News and Developments, 2021-2023
- Table 104 : Evoqua Water Technologies: Product Portfolio
- Table 105 : Eichrom Technologies: Product Portfolio
- Table 106 : Ecosoft: Product Portfolio
- Table 107 : Fujifilm Holdings Corp.: Annual Revenue, 2022
- Table 108 : Fujifilm Holdings Corp.: News and Developments, 2022
- Table 109 : Fujifilm Holdings Corp.: Product Portfolio
- Table 110 : Ion Exchange (India) Ltd.: Annual Revenue, 2022
- Table 111 : Ion Exchange (India) Ltd.: News and Developments, 2022
- Table 112 : Ion Exchange (India) Ltd.: Product Portfolio
- Table 113 : Ionomr Innovations Inc.: News and Developments, 2021-2023
- Table 114 : Ionomr Innovations Inc.: Product Portfolio
- Table 115 : Jacobi Resins: Product Portfolio
- Table 116 : Lanxess AG: Annual Revenue, 2022
- Table 117 : Lanxess AG: News and Developments, 2023
- Table 118 : Lanxess AG: Product Portfolio
- Table 119 : Mitsubishi Chemical Group Corp.: Annual Revenue, 2022
- Table 120 : Mitsubishi Chemical Group Corp.: News and Developments, 2021-2023
- Table 121 : Mitsubishi Chemical Group Corp.: Product Portfolio
- Table 122 : Membranes International: Product Portfolio
- Table 123 : Purolite: News and Developments, 2023
- Table 124 : Purolite: Product Portfolio
- Table 125 : ResinTech Inc.: News and Developments, 2020-2022
- Table 126 : ResinTech Inc.: Product Portfolio
- Table 127 : Samyang Corp.: Annual Revenue, 2022
- Table 128 : Samyang Corp.: News and Developments, 2020-2022
- Table 129 : Samyang Corp.: Product Portfolio
- Table 130 : Sunresin New Materials Co., Ltd.: Annual Revenue, 2022
- Table 131 : Sunresin New Materials Co., Ltd.: News and Developments, 2020
- Table 132 : Sunresin New Materials Co., Ltd.: Product Portfolio
- Table 133 : Saltworks Technologies: News and Developments, 2020-2023
- Table 134 : Saltworks Technologies: Product Portfolio
- Table 135 : Suqing Group: Product Portfolio
- Table 136 : SnowPure LLC: Product Portfolio
- Table 137 : Solvay SA: Annual Revenue, 2022

Table 138 : Solvay SA: News and Developments, 2021

Table 139 : Solvay SA: Product Portfolio

Table 140 : Taiyuan Lanlang Technology Industrial Corp: Product Portfolio

Table 141 : Thermax Ltd.: Annual Revenue, 2022

Table 142 : Thermax Ltd.: News and Developments, 2021-2023

Table 143 : Thermax Ltd.: Product Portfolio

Table 144 : Acronyms Used in This Report

## List Of Figures

### LIST OF FIGURES

Figure A : Data Source: Global Market for Ion Exchange Materials

Summary Figure : Global Market Shares of Ion Exchange Materials, by Region, 2022

Figure 1 : Schematic Representation for Cation Exchange Resins and Anion Exchange Resins

Figure 2 : Schematic Representation of an Ion Exchange Membrane

Figure 3 : Example of the Ion Exchange Process, by Steps

Figure 4 : Schematic Representation of the Ion Exchange Column

Figure 5 : Standard Functionalities for Cation Exchange Materials

Figure 6 : Common Functionalities for Anion Exchange Materials

Figure 7 : Ion Exchange Materials, Supply Chain

Figure 8 : Global Market Shares of Ion Exchange Materials, by Form Factor, 2022

Figure 9 : Global Market Shares of Ion Exchange Resins/Beads, by Region, 2022

Figure 10 : Working Principle of Ion Exchange Membranes

Figure 11 : Global Market Shares of Ion Exchange Membranes, by Region, 2022

Figure 12 : Global Market Shares of Ion Exchange Materials, by Application, 2022

Figure 13 : Global Market Shares of Ion Exchange Materials in Energy Generation and Storage Applications, by Region, 2022

Figure 14 : Schematic Representation of an Ion Exchange Membrane Fuel Cell System

Figure 15 : Fuel Cell: Basic Principles

Figure 16 : Global Market Shares of Ion Exchange Materials in Fuel Cells, by Region, 2022

Figure 17 : Global Market Shares of Ion Exchange Materials in Fuel Cells, by Application, 2022

Figure 18 : Schematic Representation of an Ion Exchange Membrane Water Electrolysis Unit

Figure 19 : Global Market Shares of Ion Exchange Materials in Water Electrolysis, by Region, 2022

Figure 20 : Global Market Shares of Ion Exchange Materials in Water Electrolysis, by Application, 2022

Figure 21 : Schematic Representation of a Redox Flow Battery

Figure 22 : Global Market Shares of Ion Exchange Materials in Redox Flow Batteries, by Region, 2022

Figure 23 : Global Market Shares of Ion Exchange Materials in Water Technologies, by Region, 2022

Figure 24 : Schematic Representation of the Ion Exchange Membrane System Used for

## Electrodialysis

Figure 25 : Global Market Shares of Ion Exchange Materials in Electrodialysis, by Region, 2022

Figure 26 : Global Market Shares of Ion Exchange Materials in Ultrapure Water, by Region, 2022

Figure 27 : Global Market Shares of Ion Exchange Materials in Water Softening, by Region, 2022

Figure 28 : Global Market Shares of Ion Exchange Materials in Demineralization, by Region, 2022

Figure 29 : Global Market Shares of Ion Exchange Materials in Wastewater Treatment, by Region, 2022

Figure 30 : Global Market Shares of Ion Exchange Materials in Separation and Chemical Production, by Region, 2022

Figure 31 : Schematic for an Ion Exchange Membrane Chlor-Alkali Electrolytic Cell

Figure 32 : Global Market Shares of Ion Exchange Materials in Chlor-Alkali Process, by Region, 2022

Figure 33 : Global Market Shares of Ion Exchange Materials in Chromatography, by Region, 2022

Figure 34 : Global Market Shares of Ion Exchange Materials in Chemical Catalysis, by Region, 2022

Figure 35 : Global Market Shares of Ion Exchange Materials in Metal Extraction and Purification, by Region, 2022

Figure 36 : Global Market Shares of Ion Exchange Materials in Power Generation and Electricity, by Region, 2022

Figure 37 : Global Market Shares of Ion Exchange Materials in Food and Beverage Applications, by Region, 2022

Figure 38 : Global Market Shares of Ion Exchange Materials in Sugar and Sweeteners, by Region, 2022

Figure 39 : Global Market Shares of Ion Exchange Materials in Beverage Production, by Region, 2022

Figure 40 : Global Market Shares of Ion Exchange Materials in Pharmaceutical Applications, by Region, 2022

Figure 41 : Global Market Shares of Ion Exchange Materials in Drug Delivery, by Region, 2022

Figure 42 : Global Market Shares of Ion Exchange Materials in Isolation and Purification of Biochemical Substances, by Region, 2022

Figure 43 : Global Market Shares of Ion Exchange Materials, by Region, 2022

Figure 44 : North American Market Shares of Ion Exchange Materials, by Country, 2022

Figure 45 : North American Market Shares of Ion Exchange Materials, by Form Factor,



2022

Figure 46 : North American Market Shares of Ion Exchange Materials, by Application, 2022

Figure 47 : North American Market Shares of Ion Exchange Materials in Energy Generation and Storage Applications, by Type, 2022

Figure 48 : North American Market Shares of Ion Exchange Materials in Water Technology Applications, by Type, 2022

Figure 49 : North American Market Shares of Ion Exchange Materials in Separation and Chemical Production Applications, by Type, 2022

Figure 50 : North American Market Shares of Ion Exchange Materials in Food and Beverage Applications, by Type, 2022

Figure 51 : North American Market Shares of Ion Exchange Materials in Pharmaceutical Applications, by Type, 2022

Figure 52 : European Market Shares of Ion Exchange Materials, by Country, 2022

Figure 53 : European Market Shares of Ion Exchange Materials, by Form Factor, 2022

Figure 54 : European Market Shares of Ion Exchange Materials, by Application, 2022

Figure 55 : European Market Shares of Ion Exchange Materials in Energy Generation and Storage Applications, by Type, 2022

Figure 56 : European Market Shares of Ion Exchange Materials in Water Technology Applications, by Type, 2022

Figure 57 : European Market Shares of Ion Exchange Materials in Separation and Chemical Production Applications, by Type, 2022

Figure 58 : European Market Shares of Ion Exchange Materials in Food and Beverage Applications, by Type, 2022

Figure 59 : European Market Shares of Ion Exchange Materials in Pharmaceutical Applications, by Type, 2022

Figure 60 : Asia-Pacific Market Shares of Ion Exchange Materials, by Country, 2022

Figure 61 : Asia-Pacific Market Shares of Ion Exchange Materials, by Form Factor, 2022

Figure 62 : Asia-Pacific Market Shares of Ion Exchange Materials, by Application, 2022

Figure 63 : Asia-Pacific Market Shares of Ion Exchange Materials in Energy Generation and Storage Applications, by Type, 2022

Figure 64 : Asia-Pacific Market Shares of Ion Exchange Materials in Water Technology Applications, by Type, 2022

Figure 65 : Asia-Pacific Market Shares of Ion Exchange Materials in Separation and Chemical Production Applications, by Type, 2022

Figure 66 : Asia-Pacific Market Shares of Ion Exchange Materials in Food and Beverage Applications, by Type, 2022

Figure 67 : Asia-Pacific Market Shares of Ion Exchange Materials in Pharmaceutical

Applications, by Type, 2022

Figure 68 : Rest of the World Market Shares of Ion Exchange Materials, by Form Factor, 2022

Figure 69 : Rest of the World Market Shares of Ion Exchange Materials, by Application, 2022

Figure 70 : Rest of the World Market Shares of Ion Exchange Materials in Energy Generation and Storage Applications, by Type, 2022

Figure 71 : Rest of the World Market Shares of Ion Exchange Materials in Water Technology Applications, by Type, 2022

Figure 72 : Rest of the World Market Shares of Ion Exchange Materials in Separation and Chemical Production Applications, by Type, 2022

Figure 73 : Rest of the World Market Shares of Ion Exchange Materials in Food and Beverage Applications, by Type, 2022

Figure 74 : Rest of the World Market Shares of Ion Exchange Materials in Pharmaceutical Applications, by Type, 2022

Figure 75 : ESG in the Ion Exchange Materials Industry

Figure 76 : Environmental Score of Major Companies in the Ion Exchange Materials Market, 2023

Figure 77 : Social Score of Major Companies in the Ion Exchange Materials Market, 2023

Figure 78 : Governance Score of Major Companies in the Ion Exchange Materials Market, 2023

Figure 79 : Emerging Trends in the Market for Ion Exchange Materials

Figure 80 : M&A in the Ion Exchange Materials Industry, by Deal Value, 2020-2023

Figure 81 : Start-up Funding in the Ion Exchange Materials Industry, by Various Rounds, 2022 and 2023

Figure 82 : Distribution Share of Start-up Funding Amount, by Various Rounds, 2022 and 2023

Figure 83 : 3M: Annual Revenue, 2021 and 2022

Figure 84 : 3M: Revenue Share, by Business Unit, 2022

Figure 85 : 3M: Revenue Share, by Region, 2022

Figure 86 : AGC Inc.: Annual Revenue, 2021 and 2022

Figure 87 : AGC Inc.: Revenue Share, by Business Unit, 2022

Figure 88 : AGC Inc.: Revenue Share, by Country/Region, 2022

Figure 89 : Bio-Rad Laboratories, Inc.: Annual Revenue, 2021 and 2022

Figure 90 : Bio-Rad Laboratories Inc.: Revenue Share, by Business Unit, 2022

Figure 91 : Bio-Rad Laboratories Inc.: Revenue Share, by Region, 2022

Figure 92 : The Chemours Co.: Annual Revenue, 2021 and 2022

Figure 93 : The Chemours Co.: Revenue Share, by Business Unit, 2022

- Figure 94 : The Chemours Co.: Revenue Share, by Region, 2022
- Figure 95 : DuPont de Nemours Inc.: Annual Revenue, 2021 and 2022
- Figure 96 : DuPont de Nemours Inc.: Revenue Share, by Business Unit, 2022
- Figure 97 : DuPont de Nemours Inc.: Revenue Share, by Country/Region, 2022
- Figure 98 : Evoqua Water Technologies: Annual Revenue, 2021 and 2022
- Figure 99 : Evoqua Water Technologies: Revenue Share, by Business Unit, 2022
- Figure 100 : Evoqua Water Technologies: Revenue Share, by Region, 2022
- Figure 101 : Fujifilm Holdings Corp.: Annual Revenue, 2021 and 2022
- Figure 102 : Fujifilm Holdings Corp.: Revenue Share, by Business Unit, 2022
- Figure 103 : Fujifilm Holdings Corp.: Revenue Share, by Region/Country, 2022
- Figure 104 : Ion Exchange (India) Ltd.: Annual Revenue, 2021 and 2022
- Figure 105 : Ion Exchange (India) Ltd.: Revenue Share, by Business Unit, 2022
- Figure 106 : Ion Exchange (India) Ltd.: Revenue Share, by Geography/Region, 2022
- Figure 107 : Lanxess AG: Annual Revenue, 2021 and 2022
- Figure 108 : Lanxess AG: Revenue Share, by Business Unit, 2022
- Figure 109 : Lanxess AG: Revenue Share, by Country/Region, 2022
- Figure 110 : Mitsubishi Chemical Group Corp.: Annual Revenue, 2021 and 2022
- Figure 111 : Mitsubishi Chemical Group Corp.: Revenue Share, by Business Unit, 2022
- Figure 112 : Samyang Corp.: Annual Revenue, 2021 and 2022
- Figure 113 : Sunresin New Materials Co., Ltd.: Annual Revenue, 2021 and 2022
- Figure 114 : Solvay SA: Annual Revenue, 2021 and 2022
- Figure 115 : Solvay SA: Revenue Share, by Business Unit, 2022
- Figure 116 : Solvay SA: Revenue Share, by Region, 2022
- Figure 117 : Thermax Ltd.: Annual Revenue, 2021 and 2022
- Figure 118 : Thermax Ltd.: Revenue Share, by Business Unit, 2022
- Figure 119 : Thermax Ltd.: Revenue Share, by Geography/Region, 2022

## I would like to order

Product name: Ion Exchange Materials: Technologies and Global Markets

Product link: <https://marketpublishers.com/r/I76BBE4F4C0EN.html>

Price: US\$ 5,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/I76BBE4F4C0EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970