

# 2018-2023 Global X-ray Photoelectron Spectroscopy (XPS) Consumption Market Report

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## Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

In this report, LP Information covers the present scenario (with the base year being 2017) and the growth prospects of global X-ray Photoelectron Spectroscopy (XPS) market for 2018-2023.

X-ray photoelectron spectroscopy (XPS) is a surface-sensitive quantitative spectroscopic technique that measures the elemental composition at the parts per thousand range, empirical formula, chemical state and electronic state of the elements that exist within a material. XPS spectra are obtained by irradiating a material with a beam of X-rays while simultaneously measuring the kinetic energy and number of electrons that escape from the top 0 to 10 nm of the material being analyzed. XPS requires high vacuum ( $P \sim 10^{-8}$  millibar) or ultra-high vacuum (UHV;  $P 10^{-9}$  millibar) conditions, although a current area of development is ambient-pressure XPS, in which samples are analyzed at pressures of a few tens of millibar.

XPS can be used to analyze the surface chemistry of a material in its as-received state, or after some treatment, for example: fracturing, cutting or scraping in air or UHV to expose the bulk chemistry, ion beam etching to clean off some or all of the surface contamination (with mild ion etching) or to intentionally expose deeper layers of the sample (with more extensive ion etching) in depth-profiling XPS, exposure to heat to study the changes due to heating, exposure to reactive gases or solutions, exposure to ion beam implant, exposure to ultraviolet light.

XPS is also known as ESCA (Electron Spectroscopy for Chemical Analysis).

Though the vertical comparison, it is evidently indicated in our report that: Monochromatic XPS is the most commonly used kind of X-ray Photoelectron

Spectroscopy (XPS) among all the other types, they are widely used in researches of food, chemistry, drug and biology, and sales of Monochromatic has a market share of 62.53% in 2015, while Non-monochromatic XPS enjoy the rest of the share 37.47 of the market.

For different applications of X-ray Photoelectron Spectroscopy (XPS), the size, capacity and price range is distinctive from each other. However, due to the demand of different level of consumers' daily use and the new technical process, the monochromatic X-ray Photoelectron Spectroscopy (XPS) are continued to spur in the market as the main stream. The demands for XPS is stable on the market for chemical industry and scientific research.

Over the next five years, LPI(LP Information) projects that X-ray Photoelectron Spectroscopy (XPS) will register a xx% CAGR in terms of revenue, reach US\$ xx million by 2023, from US\$ xx million in 2017.

This report presents a comprehensive overview, market shares, and growth opportunities of X-ray Photoelectron Spectroscopy (XPS) market by product type, application, key manufacturers and key regions.

To calculate the market size, LP Information considers value and volume generated from the sales of the following segments:

Segmentation by product type:

Monochromatic

Non-monochromatic

Segmentation by application:

Biomedicine

Chemical

Material

Electronic

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Spain

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The report also presents the market competition landscape and a corresponding detailed analysis of the major vendor/manufacturers in the market. The key manufacturers covered in this report:

Kratos Analytical

ThermoFisher Scientific

ULVAC

Scienta Omicron

JEOL

ReVera Incorporated

VSW

STAIB Instruments

In addition, this report discusses the key drivers influencing market growth, opportunities, the challenges and the risks faced by key manufacturers and the market

as a whole. It also analyzes key emerging trends and their impact on present and future development.

### Research objectives

To study and analyze the global X-ray Photoelectron Spectroscopy (XPS) consumption (value & volume) by key regions/countries, product type and application, history data from 2013 to 2017, and forecast to 2023.

To understand the structure of X-ray Photoelectron Spectroscopy (XPS) market by identifying its various subsegments.

Focuses on the key global X-ray Photoelectron Spectroscopy (XPS) manufacturers, to define, describe and analyze the sales volume, value, market share, market competition landscape, SWOT analysis and development plans in next few years.

To analyze the X-ray Photoelectron Spectroscopy (XPS) with respect to individual growth trends, future prospects, and their contribution to the total market.

To share detailed information about the key factors influencing the growth of the market (growth potential, opportunities, drivers, industry-specific challenges and risks).

To project the consumption of X-ray Photoelectron Spectroscopy (XPS) submarkets, with respect to key regions (along with their respective key countries).

To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

To strategically profile the key players and comprehensively analyze their growth strategies.

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