

Global Laser-Induced Breakdown Spectroscopy (LIBS) Market 2018 by Manufacturers, Regions, Type and Application, Forecast to 2023

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Abstracts

LIBS (laser-induced breakdown spectroscopy), also referred to as LSS (laser spark spectrometry) or LIPS (laser-induced plasma spectrometry), is an advanced analytical technology based on atomic emission spectroscopy for simultaneous multi-elemental analysis, which involves material detection as well as characterization in real time.

SCOPE OF THE REPORT:

This report focuses on the Laser-Induced Breakdown Spectroscopy (LIBS) in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application.

Laser-induced breakdown spectroscopy (LIBS) is a type of atomic emission spectroscopy which uses a highly energetic laser pulse as the excitation source. The laser is focused to form a plasma, which atomizes and excites samples. The formation of the plasma only begins when the focused laser achieves a certain threshold for optical breakdown, which generally depends on the environment and the target material. In principle, LIBS can analyze any matter regardless of its physical state, be it solid, liquid or gas. Because all elements emit light of characteristic frequencies when excited to sufficiently high temperatures, LIBS can (in principle) detect all elements, limited only by the power of the laser as well as the sensitivity and wavelength range of the spectrograph & detector. LIBS makes use of optical emission spectrometry and is to this extent very similar to arc/spark emission spectroscopy.

The worldwide market for Laser-Induced Breakdown Spectroscopy (LIBS) is expected to grow at a CAGR of roughly xx% over the next five years, will reach xx million US\$ in

2023, from xx million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Bruker

Rigaku

Laval Lab

Avantes

Hitachi

SECOPTA

TSI Incorporated

P&P Optica

Princeton Instruments?

B&W Tek

Ocean Optics

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

Asia-Pacific (China, Japan, Korea, India and Southeast Asia)

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

Handheld

Desktop

Market Segment by Applications, can be divided into

Mining

Metallurgy

Pharmaceutical

Environment

Research Institutions

Others

There are 15 Chapters to deeply display the global Laser-Induced Breakdown Spectroscopy (LIBS) market.

Chapter 1, to describe Laser-Induced Breakdown Spectroscopy (LIBS) Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Laser-Induced Breakdown Spectroscopy (LIBS), with sales, revenue, and price of Laser-Induced Breakdown Spectroscopy (LIBS), in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Laser-Induced Breakdown Spectroscopy (LIBS), for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, Laser-Induced Breakdown Spectroscopy (LIBS) market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Laser-Induced Breakdown Spectroscopy (LIBS) sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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