

Piezoelectric Materials Market Trends, Growth Drivers & Opportunities, 2031

Market research is offered along with information related to key drivers, restraints, and opportunities.

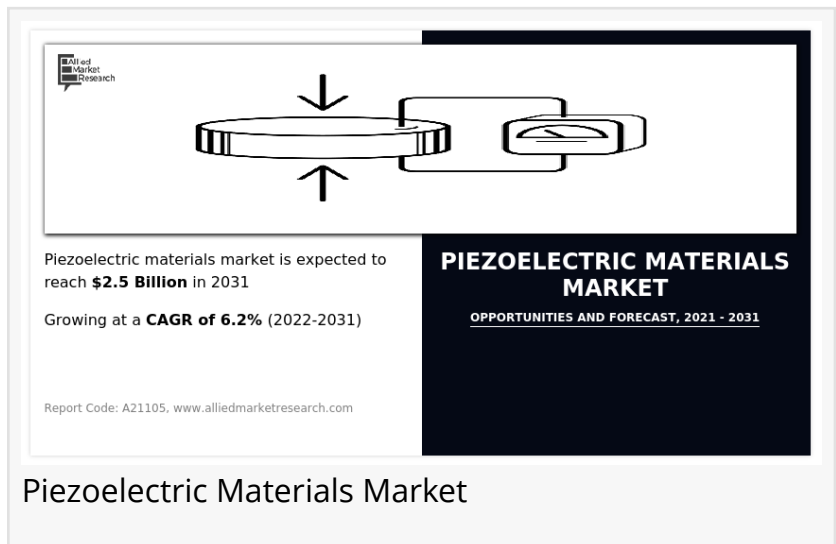
WILMINGTON, DE, UNITED STATES, August 13, 2025 /EINPresswire.com/ -- According to the report published by Allied Market Research, the global [piezoelectric materials market](#) generated \$1.4 billion in 2021, and is projected to reach \$2.5 billion by 2031, growing at a CAGR of 6.2% from 2022 to 2031. The report offers a detailed

analysis of the top winning strategies, evolving market trends, market size and estimations, value chain, key investment pockets, drivers & opportunities, competitive landscape and regional landscape. The report is a useful source of information for new entrants, shareholders, frontrunners and shareholders in introducing necessary strategies for the future and taking essential steps to significantly strengthen and heighten their position in the market.

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Piezoelectric hemispheres are an enthralling and adaptable class of materials with distinct electrical and mechanical properties. These small, spherical materials can be made out of a variety of piezoelectric crystals and ceramics, such as quartz, lead zirconate titanate (PZT), and barium titanate. They are used in a variety of industrial and scientific applications, including ultrasound imaging, precision positioning and control systems, vibration sensors, piezoelectric transducers, and acoustic transducers. When subjected to mechanical stress, such as pressure, bending, or vibration, piezoelectric hemispheres can generate an electric charge or voltage, and they can also exhibit the reverse piezoelectric effect, in which applying an electric field causes them to deform or move.

The growth of global piezoelectric hemispheres is majorly driven by the surge in demand for piezoelectric hemispheres in medical and industrial applications coupled with the rise in the adoption of piezoelectric hemispheres in automotive. Moreover, rapid advancements in



technology across various sectors are expected to drive market growth. However, the high risk associated with data privacy and security-related concerns is acting as a prime restraint of the global market. On the contrary, the rise in demand for non-invasive medical imaging and diagnostics is anticipated to provide lucrative opportunities for the Piezoelectric hemispheres industry during the forecast period.

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The decline in growth in manufacturing solutions has significantly impacted the demand for piezoelectric hemispheres solutions during the pandemic. Further, the lack of availability of a professional workforce due to the partial and complete lockdown implemented by governments across the globe has restrained the growth of the piezoelectric hemispheres market during the pandemic. However, the growing interest in energy harvesting technologies to power wireless devices and sensors creates new opportunities for piezoelectric hemispheres and is expected to drive the growth of the piezoelectric hemispheres market during the forecast period.

By type, the ceramic segment dominated the piezoelectric hemispheres market trends in 2030 and is expected to dominate the market during the forecast period. Based on the end-use industry, the healthcare segment accounted major share of global piezoelectric hemispheres industry trends, owing to a surge in demand from emerging markets globally. By application, the market is analyzed across energy harvesting, acoustic sensors, medical devices, industrial automation, and others. The medical devices segment accounted for a prime share in the piezoelectric hemispheres market forecast. Region-wise, Asia-Pacific holds a significant share of the global piezoelectric hemispheres market, owing to the presence of prime players in this region. China dominated the piezoelectric hemispheres market in the Asia-Pacific piezoelectric hemispheres market. The rise in investment by prime players and government agencies to develop next-generation healthcare and industrial automation systems has led to the growth of the piezoelectric hemispheres market.

Report key highlighters

The value of the piezoelectric materials market is analyzed in millions.

The piezoelectric materials market is consolidated in nature with few players such as Arkema S.A., CeramTec GmbH, and Johnson Matthey which hold a significant share of the market. Countries such as China, the U.S., Japan, Germany, and Brazil hold a significant share of the global piezoelectric materials market.

Factors such as escalating demand for piezoelectric materials from healthcare, automotive, and other sectors are the major drivers for the market during the forecast period.

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The leading players operating in the global piezoelectric materials market include Arkema S.A., CeramTec GmbH, Johnson Matthey, PI Ceramic GmbH, Piezo Kinetics, Inc, Piezomechanik Dr. Lutz Pickelmann GmbH, Solvay, Sparkler Ceramics Pvt. Ltd., TDK Electronics AG, and TRS Technologies, Inc. The global piezoelectric materials market report provides an in-depth competitive analysis as well as profiles of these major players.

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