Global Spintronics Market 2016 Share, Trend, Segmentation and Forecast to 2020

Spintronics Market 2016 Global Trends, Market Share, Industry Size, Growth, Opportunities, and Market Forecast to 2020

PUNE, INDIA, July 8, 2016 /EINPresswire.com/ -- Spintronics is a technology which uses the spin of electrons to store and transmit information, in addition to the charge of electrons. The Global Spintronics market is $ XX billion in 2014 and is estimated to reach $ XX billion by 2020 at CAGR of XX % during the forecast period 2014-2020. The potential of spintronics technology is globally on rise because of the smaller size, faster speed and more data storage ability of the spintronic devices. The need for higher data storage and faster transfer speeds is driving the spintronics market. In addition, the application of this technology in electric vehicles is further driving the spintronics market, and this market is expected to see significant growth during the forecast period.

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Spintronics read heads dominated the hard disk market. Nanotechnology has many potential applications and one of the most promising is the data storage in hard disk drives. With spintronics there will be a revolution in nanotechnology and electronics market. One of the potential applications of spintronics is quantum computing through which the complexity and computation time is reduced. Electron spin is more suitable for performing numerical computations using the quantum states. Magnetic sensors have already found a wide market application, thus creating the commercial capability of spin-based devices.

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The spintronics application in magnetic sensors is making inroads in markets, which require the combination of high resolution, high sensitivity, small size, and low power consumption devices. The higher density MRAM devices have increased the adoption of this technology. Digital data couplers which provide high speed data transfers are used in many applications and are making inroads into new markets. MRAM devices with spintronics technology is used in laptop computers that do not need to boot up, and in cell phones with increased battery time and capabilities.

The global spintronics market has been segmented based on the device type: metal-based devices and semiconductor-based devices. The metal based devices are further sub segmented as giant magneto resistive devices, magnetic tunnel junction devices, spintronic logic devices and spin transfer torque devices. Whereas the semiconductor based devices are sub segmented as spin injectors, spin diodes, spin fet devices, spin filters and others. In terms of application, the market is further segmented into magnetic sensors, spintronic couplers, magnetic random access memory (MRAM), data storage, electric vehicles, quantum computing, microwave devices and others.
This report exhibits a detailed study of the Porter's five forces analysis of the market. All the five major factors have been quantified using the internal key parameters governing each one of them. It also covers the market landscape of these players, which includes the key growth strategies and competition analysis.
The report additionally considers key trends that will impact the industry and profiles of leading suppliers of the global spintronics market. Some of the top companies mentioned in the report are Advanced Microsensors, IBM Corporation, Intel Corporation, NVE Corporation, Plures Technologies, Quantumwisel, Organic Spintronics, Rhomap Ltd, Atomistix and Everspin Technologies Inc.

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