

Global Quantum Materials Patent Intelligence 2026 – Strategic Analysis of Patent Landscape, Innovation Trends, Intellectual Property, Technology Domains, and Future Outlook

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Abstracts

The Global Quantum Materials Patent Intelligence report provides an in-depth analysis of the intellectual property landscape within the global quantum materials industry by evaluating patent filing activities, technology innovation trends, patent ownership, research activities, and emerging innovation domains. The report enables organizations to monitor technology leadership, assess competitive intellectual property positions, identify licensing opportunities, and support strategic decisions related to research, product development, and technology commercialization.

The study examines global patent portfolios across high-temperature superconductors, topological insulators and semimetals, 2D materials and heterostructures, quantum dots and defect engineering, SQUID and quantum sensing materials, topological quantum computing materials, and next-generation quantum material synthesis methods. It also analyzes patent filing trends, leading patent holders, technology domains, citation analysis, geographic distribution, and emerging innovators to provide actionable intelligence on the evolving quantum materials innovation ecosystem.

The report further highlights patent commercialization opportunities, licensing activities, research collaborations, and future technology directions to help organizations strengthen innovation strategies and intellectual property portfolios.

Key Coverage

Quantum materials patent landscape

Patent filing trends

Technology domain analysis

Leading patent holders

Patent portfolio benchmarking

Geographic patent distribution

Citation analysis

Licensing landscape

White-space opportunities

Future patent outlook

Target Audience

Chief Intellectual Property Officers (CIPOs)

Intellectual Property & Patent Teams

Research & Development (R&D) Teams

Quantum Materials Developers

Innovation Management Teams

Technology Scouting Teams

Product Development Teams

Quantum Technology Manufacturers

Semiconductor Companies

Universities & Research Institutions

Government & Research Organizations

Technology Transfer Offices

Investment & Venture Capital Firms

Legal & Licensing Professionals

What This Report Offers

Comprehensive quantum materials patent landscape assessment

Patent filing and publication trend analysis

Patent portfolio benchmarking

Leading patent holder and assignee analysis

Quantum materials technology domain analysis

Geographic patent distribution assessment

Patent citation and quality analysis

Inventor and innovation activity assessment

Licensing and patent commercialization insights

Freedom-to-operate intelligence

Emerging innovation and white-space opportunity identification

Future intellectual property and technology outlook

Key Companies Covered (Illustrative)

Sumitomo Electric Industries, Ltd.

International Superconductivity Technology Center

Hoechst AG

Panasonic Holdings Corporation

Hitachi Ltd.

IBM Corporation

Google LLC

Microsoft Corporation

Huawei Technologies Co., Ltd.

Tencent Holdings Ltd.

Toshiba Corporation

NEC Corporation

Mitsubishi Electric Corporation

Furukawa Electric Co., Ltd.

And other leading patent holders and industry participants.

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- 12.11 Toshiba Corporation
- 12.12 NEC Corporation
- 12.13 Mitsubishi Electric Corporation
- 12.14 Furukawa Electric Co., Ltd.
- 12.15 Nichia Corporation
- 12.16 CSIRO
- 12.17 Quantum Designed Materials Ltd.
- 12.18 University of California, Berkeley
- 12.19 Oak Ridge National Laboratory
- 12.20 Chinese Academy of Sciences

- 12.21 Peking University
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