

# TechVision50: Top 50 Advanced and Emerging Technologies

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## Abstracts

TechVision50 is Future Market's guide to the 50 greatest opportunities in Advanced Technologies and Materials at the mid-point of 2024. This analysis provides a spotlight on the significant untapped potential within next-generation technologies and materials. TechVision50 provides a comprehensive analysis of 50 technologies including:

Direct Air Carbon Capture and Storage (DACCS)

Personalized Medicine

Bio-based Energetics

Humanoid Robots

Sodium-ion Batteries

Quantum Sensors

MicroLED Displays

Brain-computer interfaces

Gridscale Wireless Energy Transmission and Charging

Quantum Computing

Industrial Metaverse

Post-quantum Cryptography

Quantum Dot short-wave infrared (SWIR) Sensing in AI and Machine vision

Biologically Inspired AI

4D printing

Metamaterials

AI Chips

Hyperspectral Imaging

Millimetre wave and terahertz technologies

Green Hydrogen

Biomanufacturing

Biocatalysts

Soft Robotics

Shape Memory Materials

Materials Informatics

Transparent Electronics

Regenerative Agriculture

Bioprinting

RNA Therapeutics

Neuromorphic Computing

Conductive Carbon Nanomaterials

Liquid Metal Alloys

Advanced Ceramics

Mycelium Composites

Self-Healing Materials

Transparent Solar Panels

Chemical Recycling

Photonic Integrated Circuits (PICs)

Carbon Removal Concrete

Edible Coatings

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