

# The Global Market for Metamaterials and Metasurfaces 2024-2034

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## Abstracts

Metamaterials applications will represent a multi-billion dollar market within the next decade with product advances

in radar and lidar for autonomous vehicles, telecommunications antenna, 6G networks, coatings, vibration

damping, wireless charging, noise prevention and more.

Metamaterials are artificially engineered structures with exceptional material properties (acoustic, electrical,

magnetic, optical, etc.). They comprise arrays of resonators that manipulate electromagnetic waves or sound in

ways not normally found in nature. Possessing customized dielectric properties and tunable responses they allow

for excellent flexibility in a range of applications, their use enabling the manipulation of fields and waves at a

subwavelength scale. Key applications include:

telecommunications.

acoustics.

sound insulation.

sensors.

radar imaging.

optics (terahertz and infrared).

coatings & films.

lidar systems for self-driving cars.

imaging and sensing.

power transmission.

energy harvesting.

wireless charging.

thermal management.

superlenses for medical devices

AR displays.

## Report content include

Current market analysis and future revenue forecasts, by metamaterial types, markets and region.

Commercialization assessment from research to market.

Market drivers, trends and challenges.

Competitive landscape.

In-depth opportunity assessment in markets including communications, sound

insulation, antennas,

sensors, solar coatings, displays, and medical imaging.

Profiles of 61 companies including products, investments, partnerships.  
Companies profiled include

Anywaves, Breyton, Echodyne, Inc., Evolv Technologies, Inc., Fractal Antenna Systems, Inc, Imagia,

Kymeta Corporation, Lumotive, OPT Industries, Phononic Vibes srl, Metamaterial, Inc. and Metawave

Corporation.

Detailed application market forecasts through 2034.

Regional revenues and demand analysis.

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