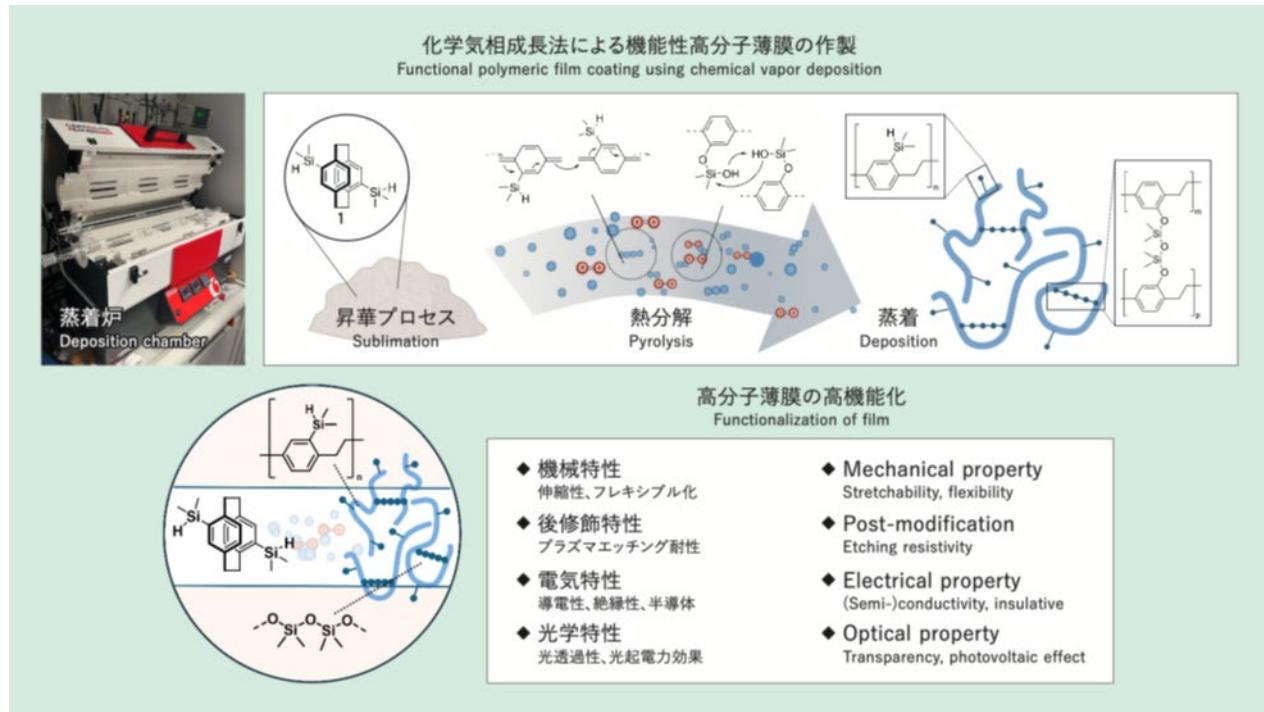


High-performance polymer thin films for Med & Semiconductor coating New functional thin films for Med & Semi

Background and Technical Challenges

Chemical vapor deposition enables conformal thin-film coating at room temperature. However, film formation without loss of material function is hampered by molecular instability from heat or pressure changes.



R&D Goals and Outcomes

CVD enables polymer thin-film with biocompatibility, transparency & conductivity for durable device coating.

Key Technologies

01 Core Technologies

We developed a sublimation method preserving functions of synthesized materials, enabling defect-minimized, damage-free thin-film deposition.

02 Key Differentiators

Our method enables the synthesis of functional CVD films with optimal thickness control, fewer pinholes, and higher adhesion forces compared to conventional coating processes.

Use Cases Environmental Services

R&D phase Research

Technology Schedule FY27-29

Commercialization Schedule After FY30

[Exhibitors]

NTT Research, Inc. MEI Lab.

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