

Scalable production and integration of graphene

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All the potential graphene-enabled applications researched in the past 2 decades require a stable, reliable and scalable supply of high-quality graphene. This is what Applied Nanolayers (ANL) is focussed on.

ANL is a leading innovator company in the field of single atom-thick layers of graphene and other 2D materials. We have developed solutions for graphene production and integration:

- 200mm capable automated CVD system for graphene growth
- CMOS-compatible Wafer-to-wafer transfer for graphene transfer
- 200mm capable graphene crystal quality analysis
- Material supply service
- Layer transfer service
- Foundry services

As a materials supplier, we provide 2D materials on a temporary carrier substrate which serves as an application development kit (ADK) for early-stage customers. We can also supply 2D materials transferred directly to the customers' own substrate (e.g. a CMOS wafer). Lastly, our foundry service aims to integrate 2D materials on existing semiconductor technology for those customers who wish to bring their 2D-material-enabled application to a higher TRL.

ANL can supply high-performance graphene at scale, with transfer technology and graphene foundry services, building the next generation platform for the semiconductor industry.