The Experimental Graphene Pilot Line at AMO

Gordon Rinke
Zhenxing Wang, Herbert Kleinjans, Max Lemme
AMO GmbH, Otto-Blumenthal-Str. 25, 52074 Aachen Germany
rinke@amo.de

Devices based on graphene have attracted a lot of attention due to its extraordinary electronic, optical and sensing properties and consequently its effect on the device performance. [1, 2] However, the fabrication on large scale and thus the availability as well as the introduction into the market remains challenging. With the mission to efficiently close the gap between university research and industrial application, AMO provides as one of the partners in the European 2D Experimental Pilot Line (2D-EPL) project multi project wafer (MPW) runs. The establishment of a route for 2D material integration on large scale and the access to this technology for interested customer is the aim here. In this talk, I will give an insight to the facilities at AMO and some application examples together with hint to next MPW runs within the 2D-EPL project as well as our tailored graphene foundry services.

Acknowledgement: "This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 2D-EPL (952792) and GrapheneCore3 (881603)."

References

[1] D. Neumaier, S. Pindl, M. C. Lemme, Nature Materials, 18 (2019) 525.
[2] M. C. Lemme, et al. Nature Communications, 13 (2022) 1392.

Figures

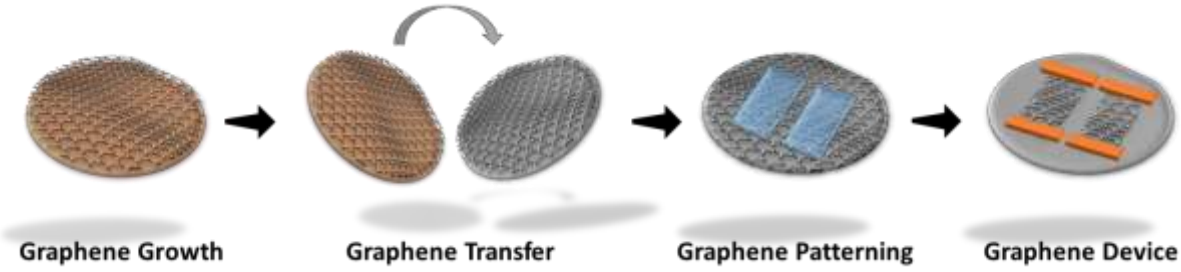

Figure 1: Graphene Pilot Line Fabrication Steps