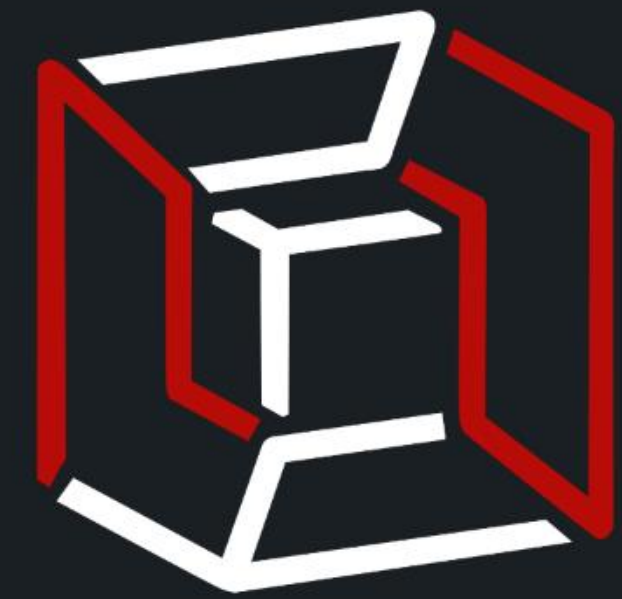




HETEROMERGE
FUNCTIONAL 3D MICRO-PRINTING

Functionalization of 3D microstructures – capabilities, development and production

J. Zscheile

HETEROMERGE GmbH, 01217 Dresden, Germany

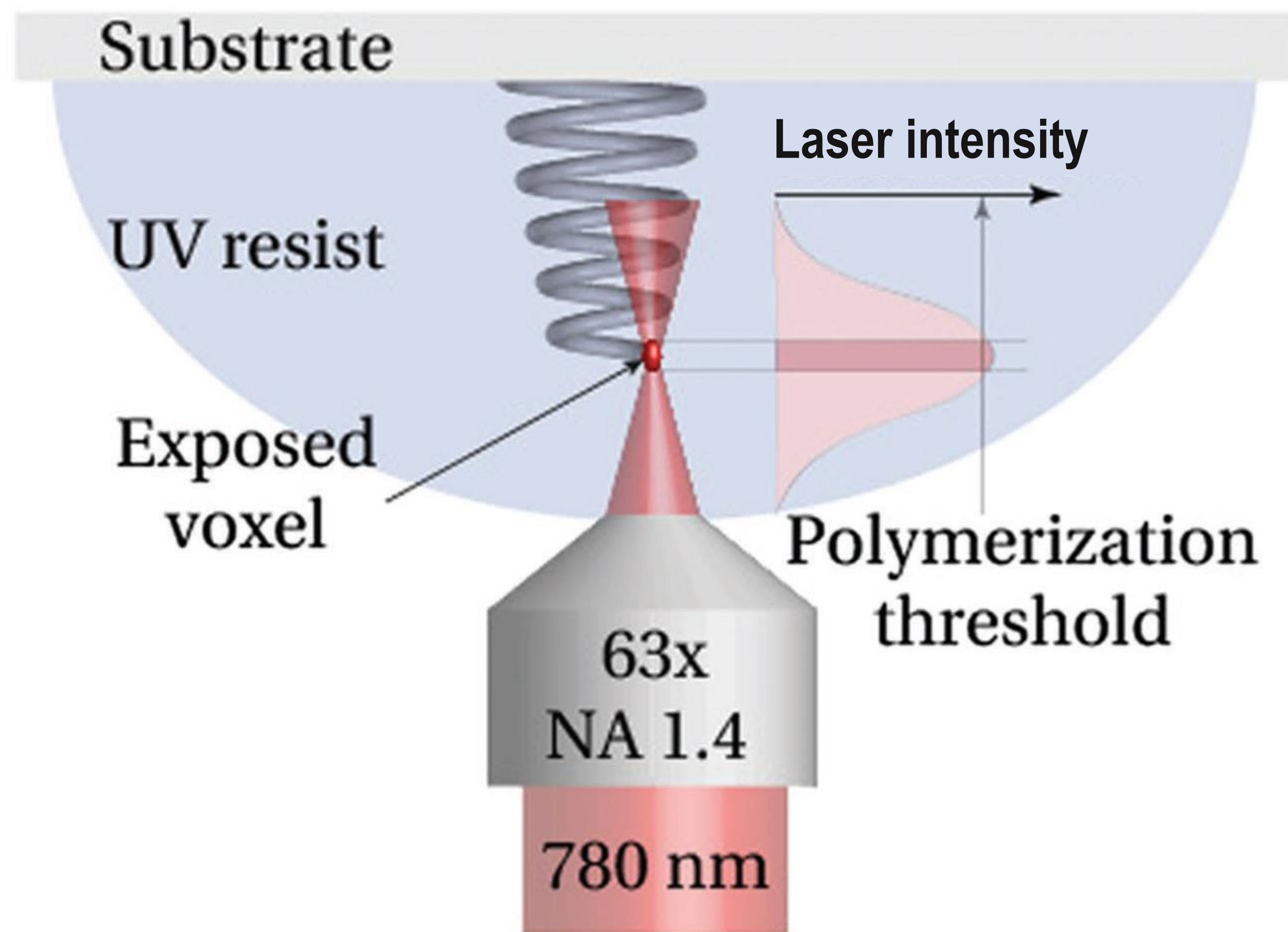


Spin-off TU Dresden
Center for Advancing Electronics Dresden

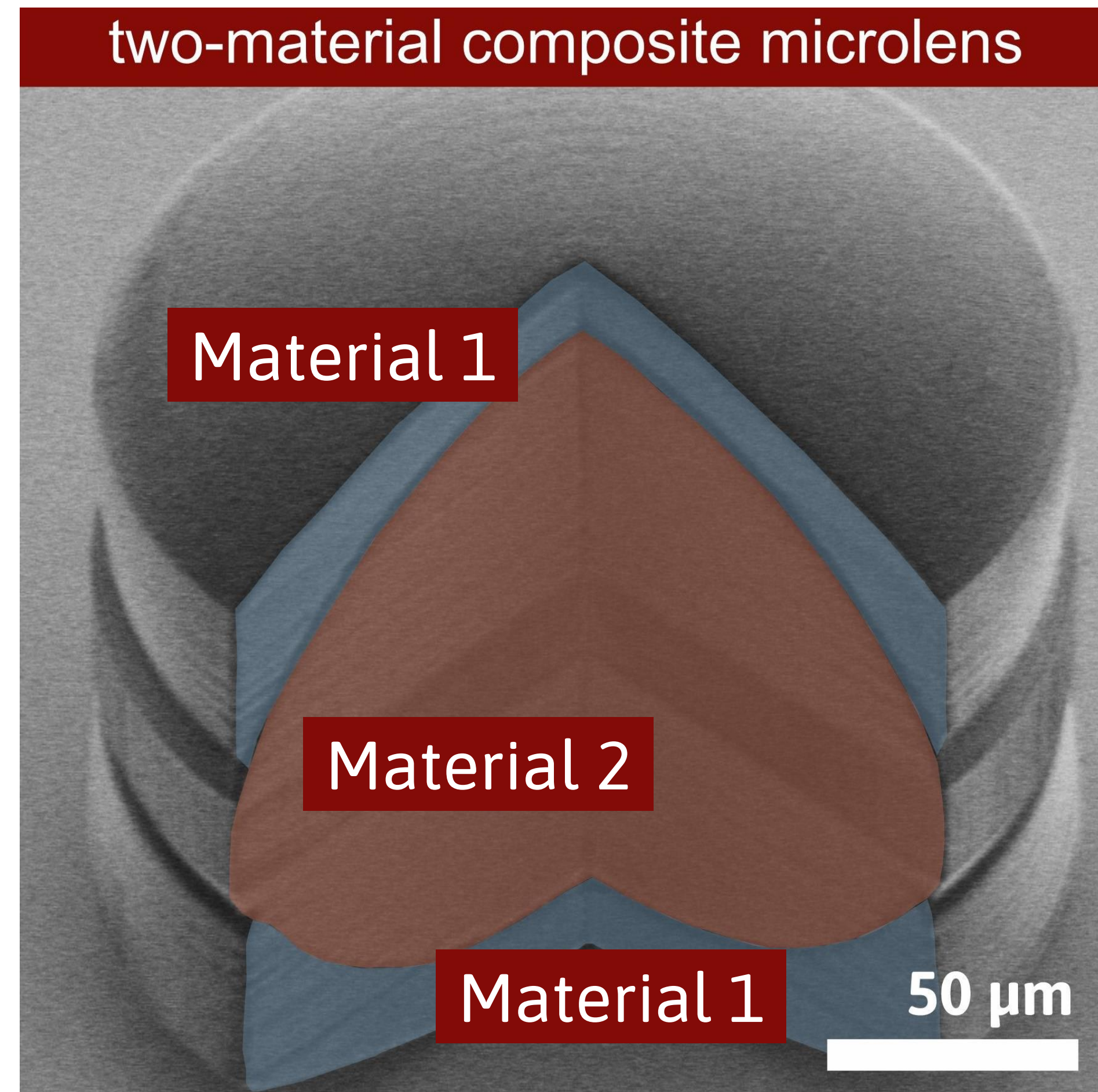
Numbers & Facts
Incorporated
MergeOne User

2023
> 50

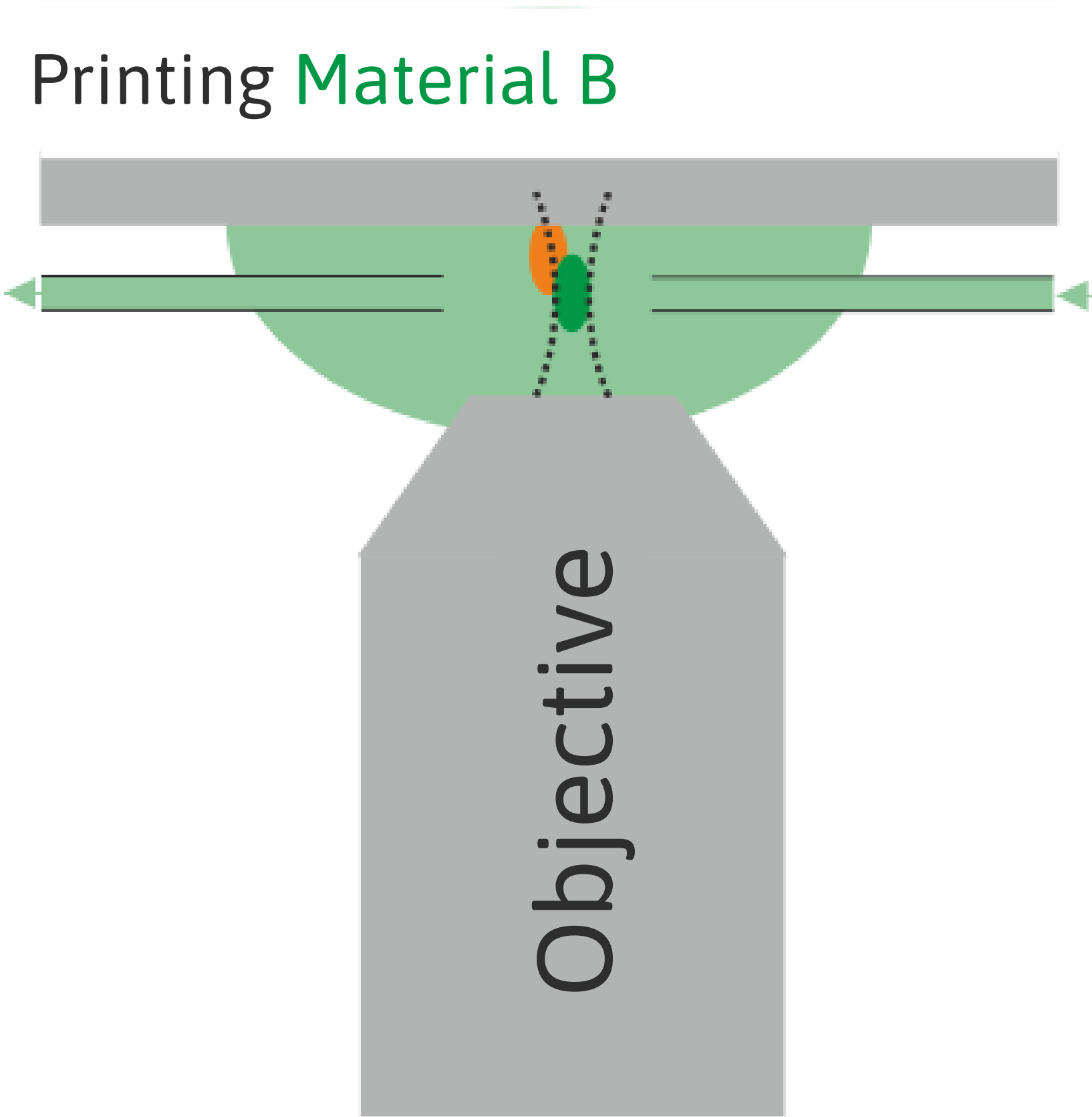
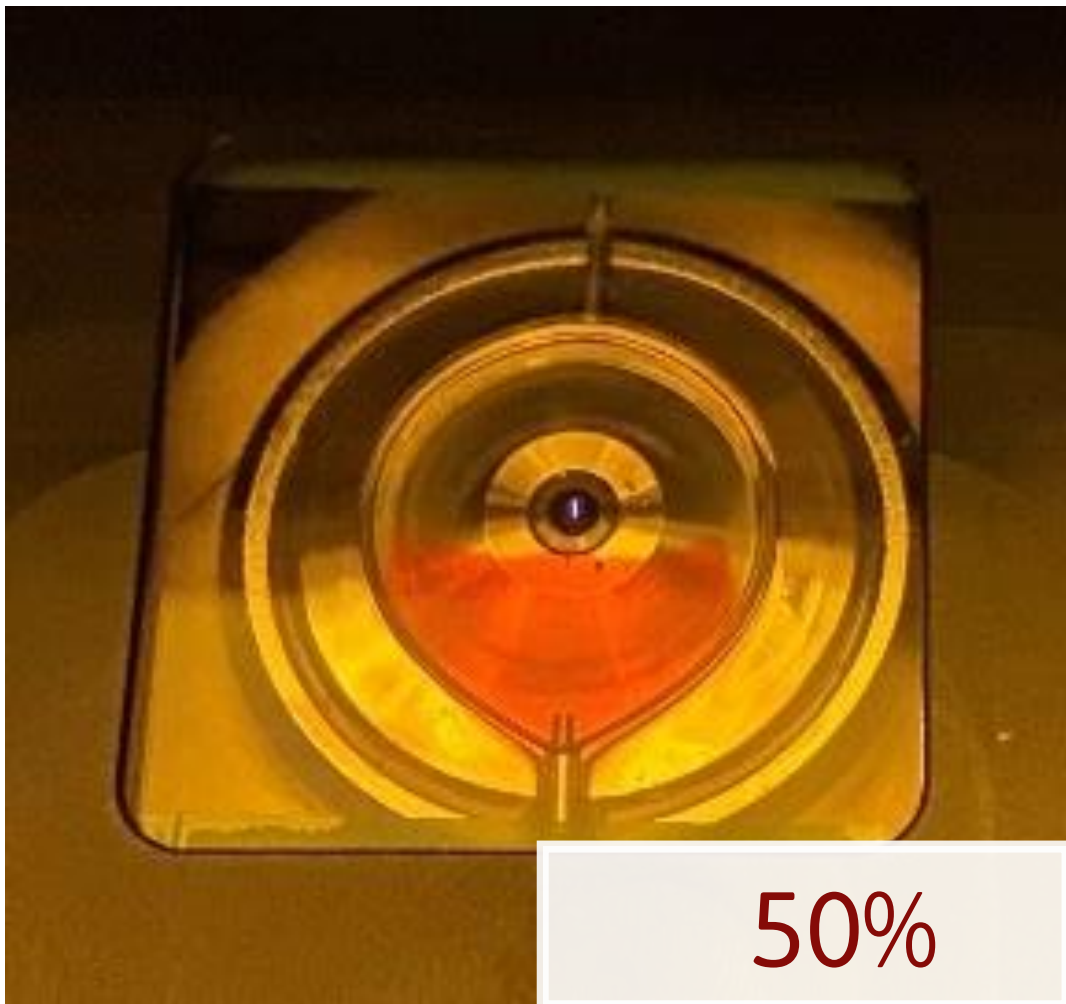
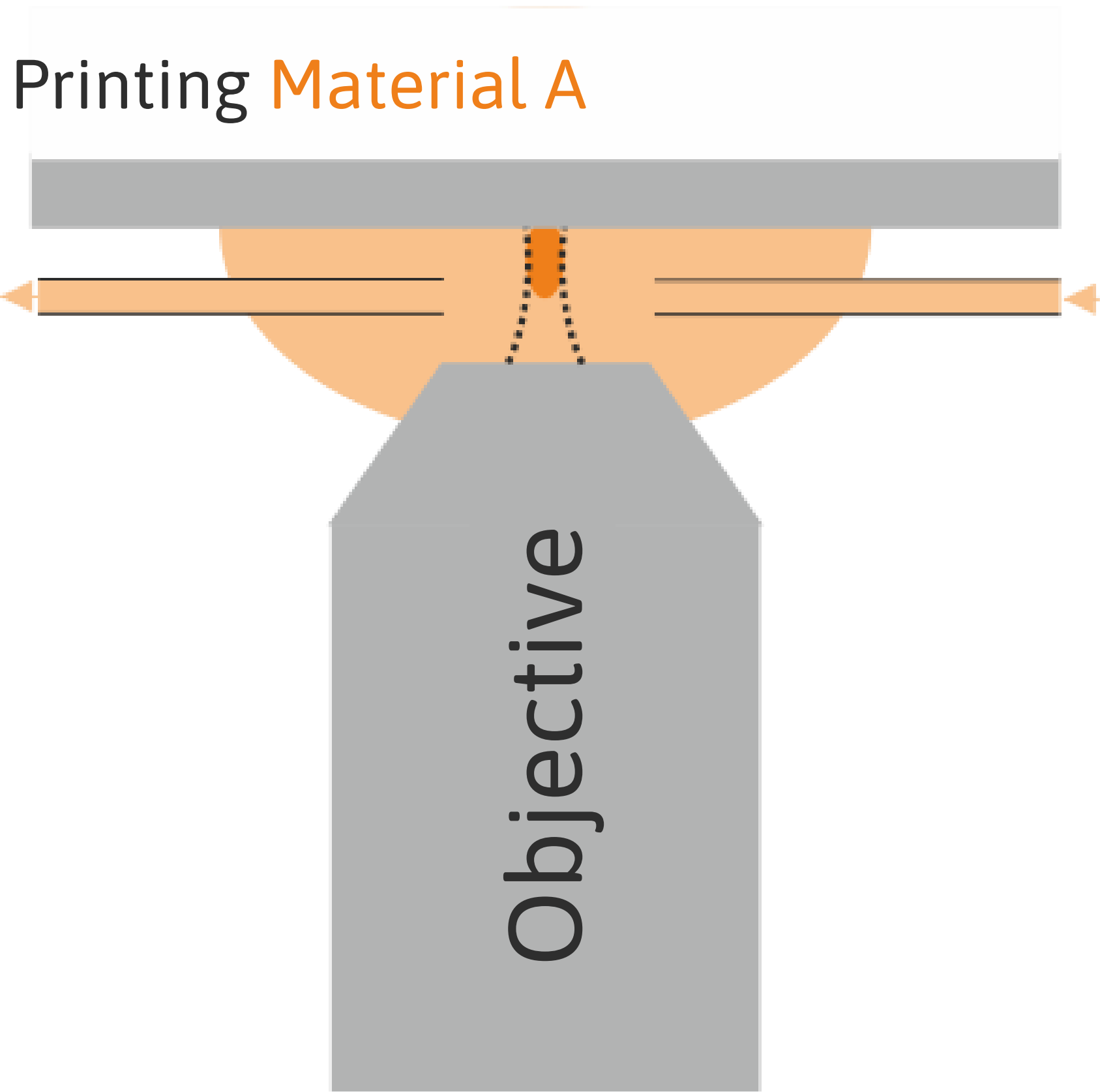




Base technology

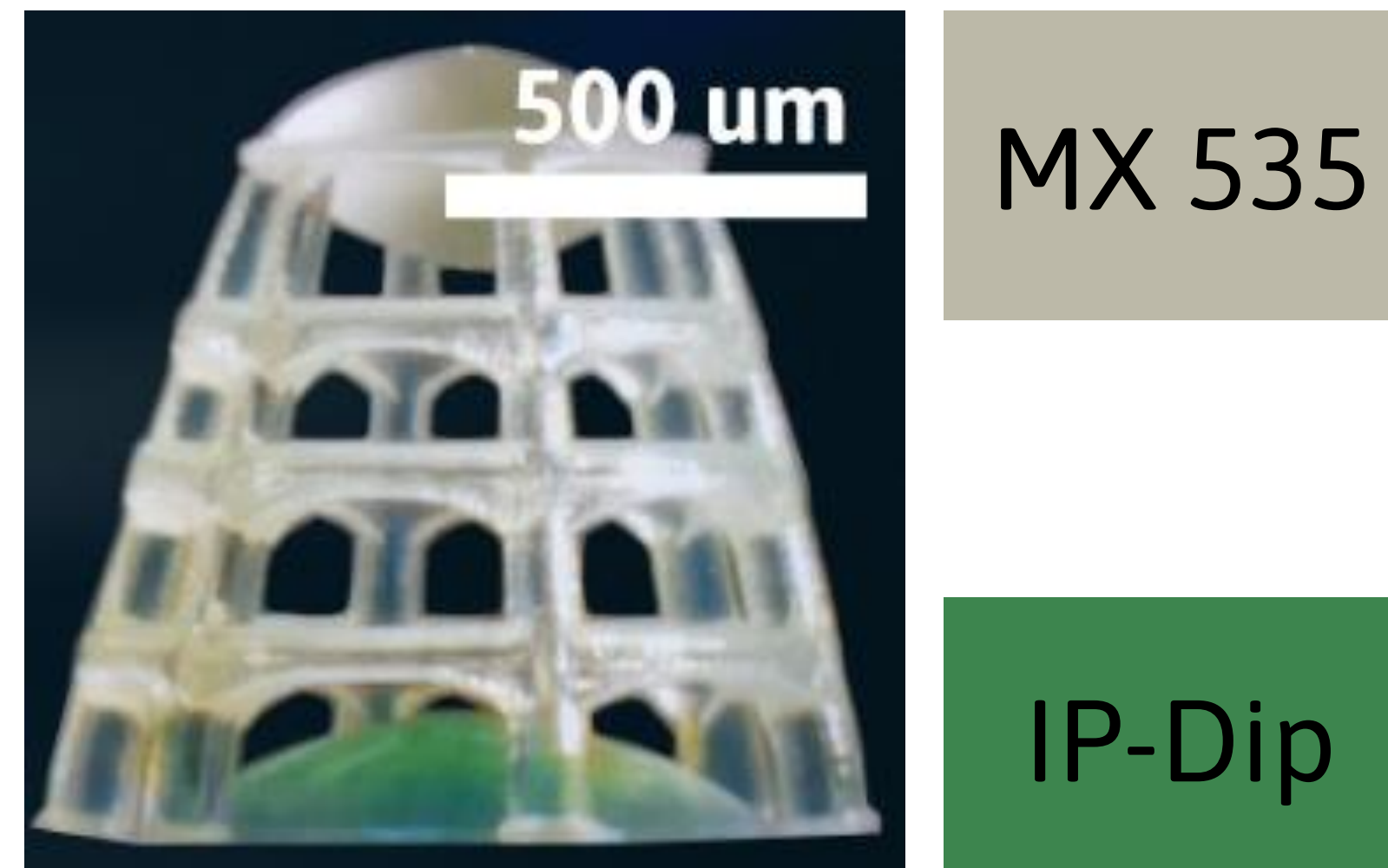
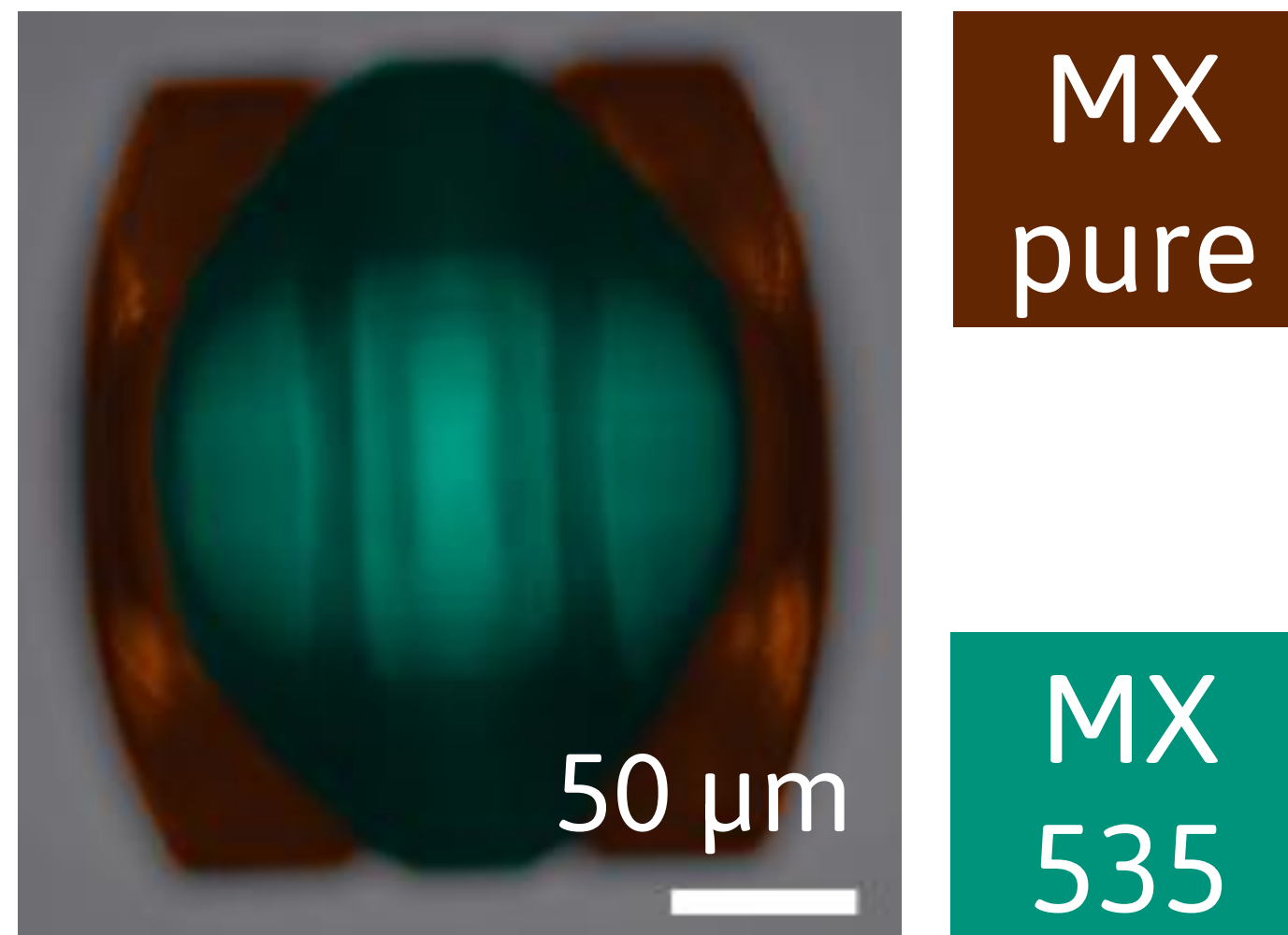
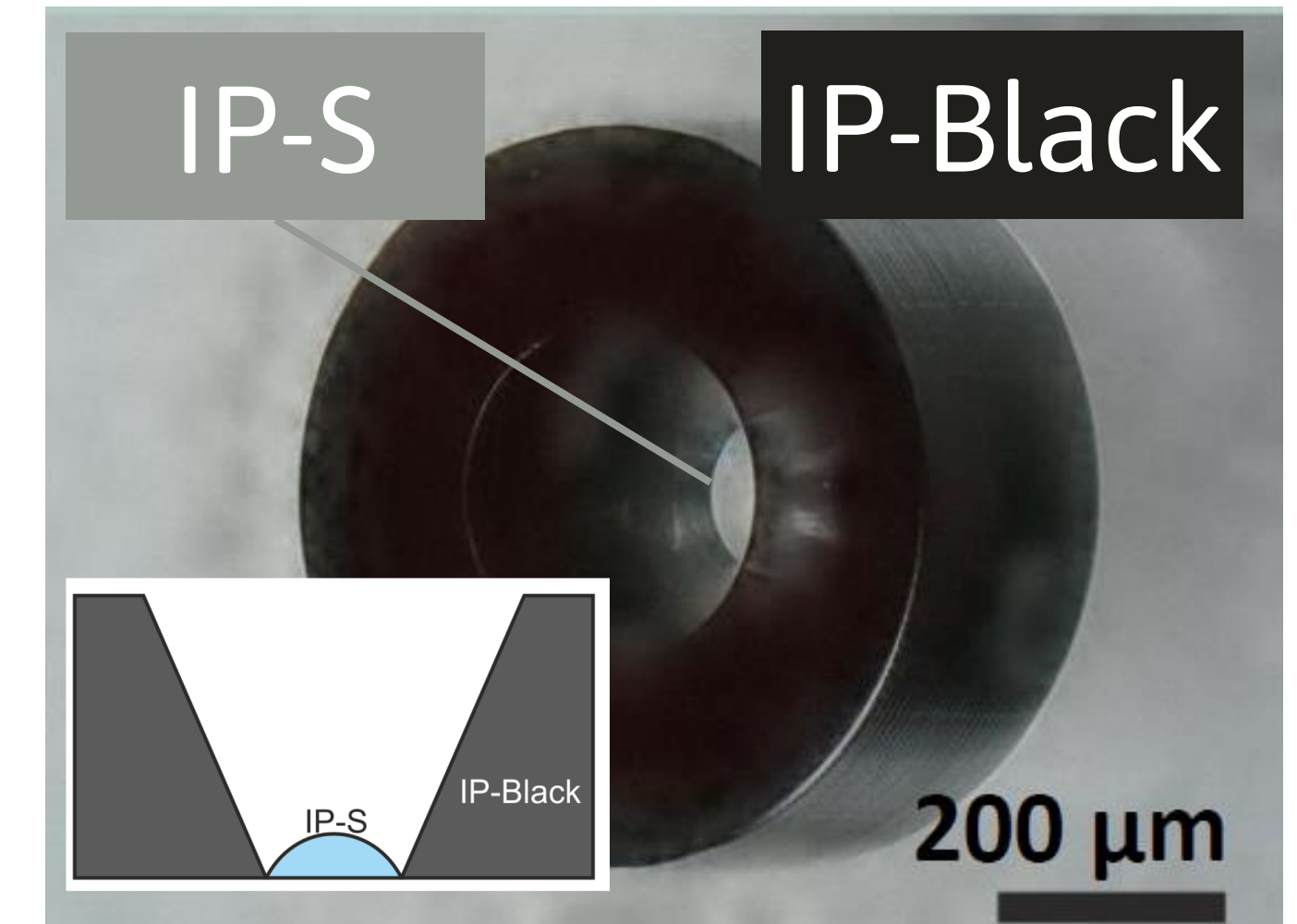
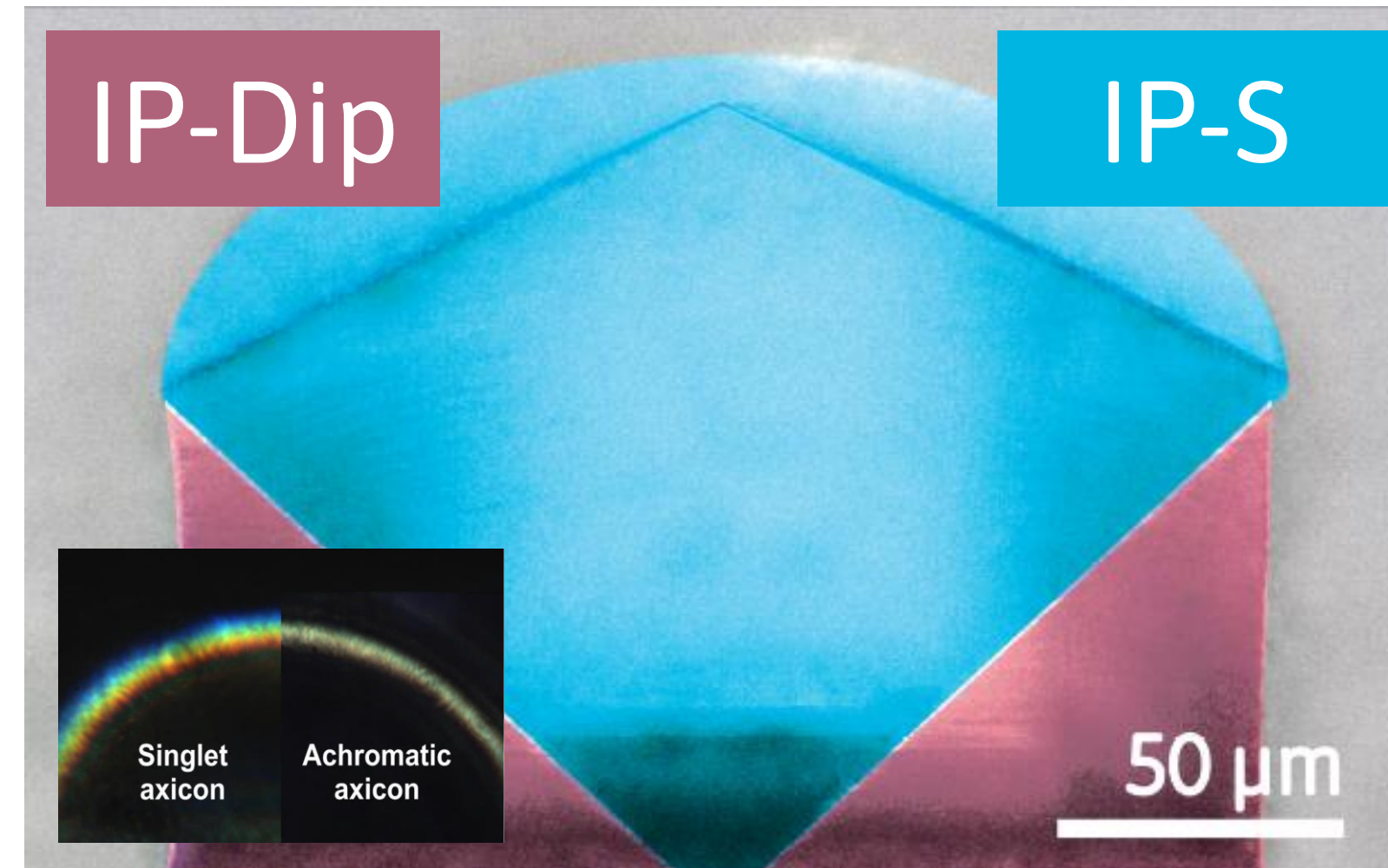
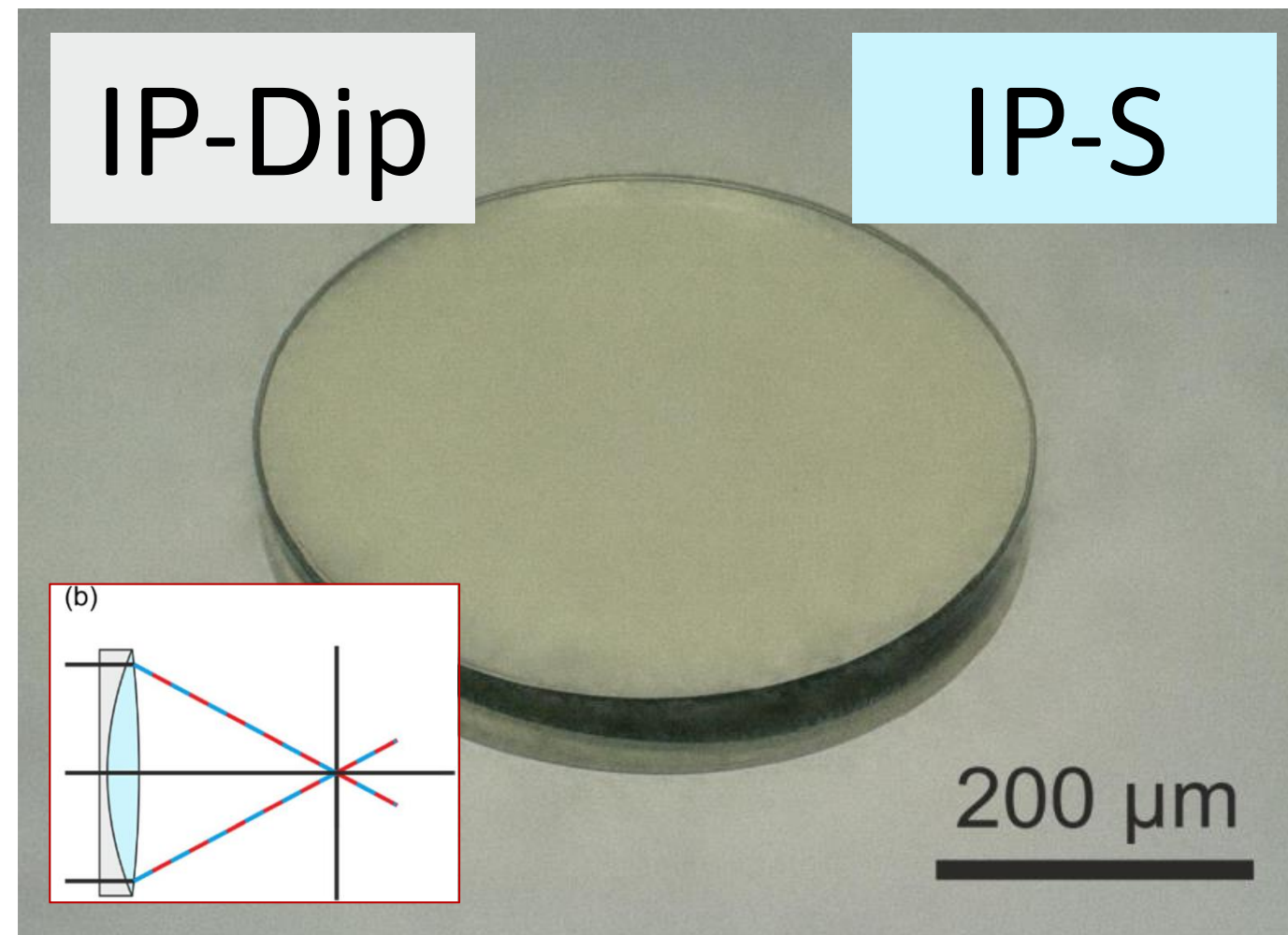


HETEROMERGE® enabled



DE 10 2019 115 780 B4, US 12,103,226, further pending

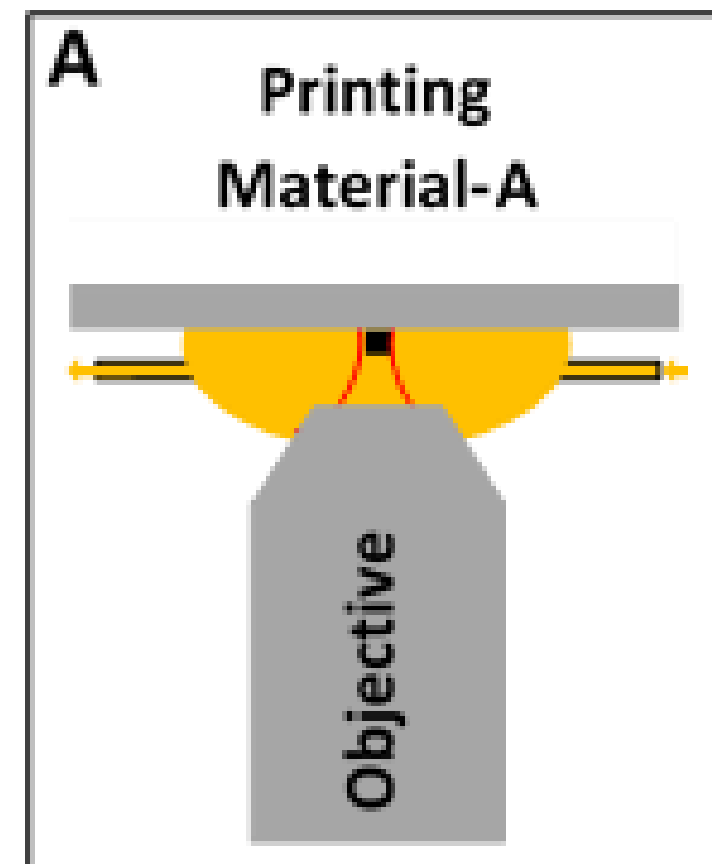
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Material exchange



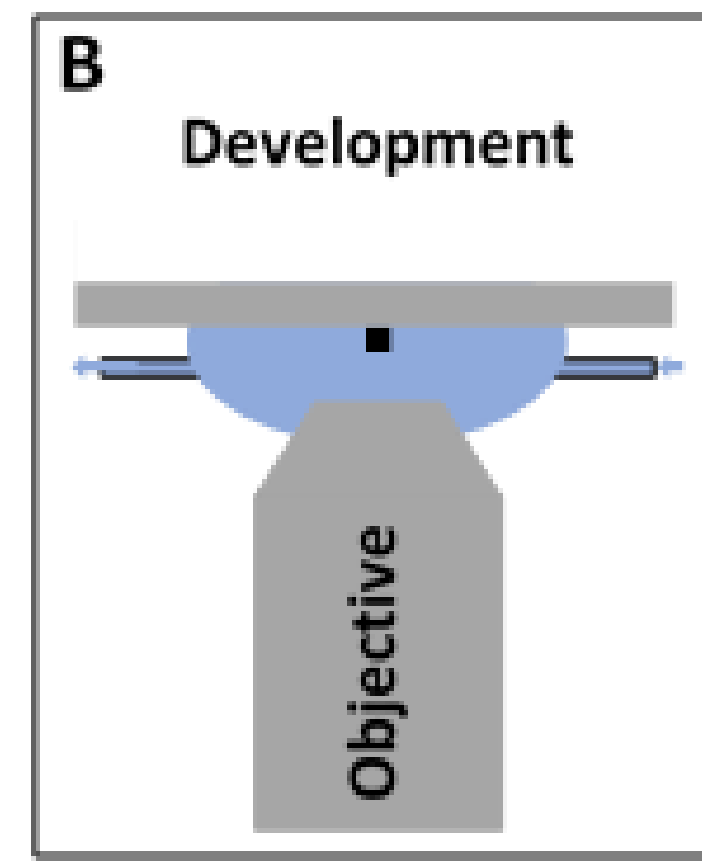
Multi-material optical systems

Freeform optics and photonics

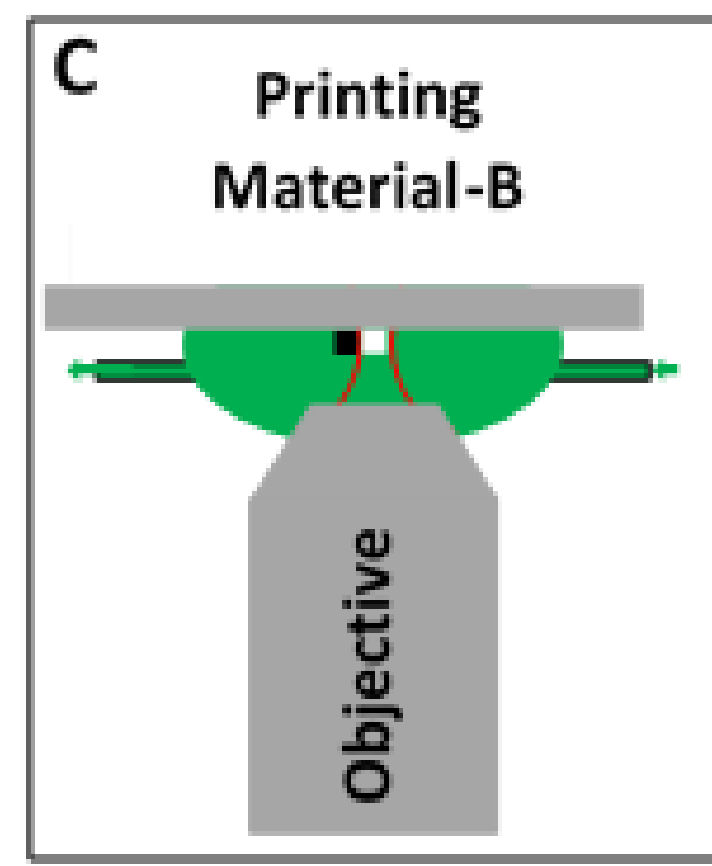
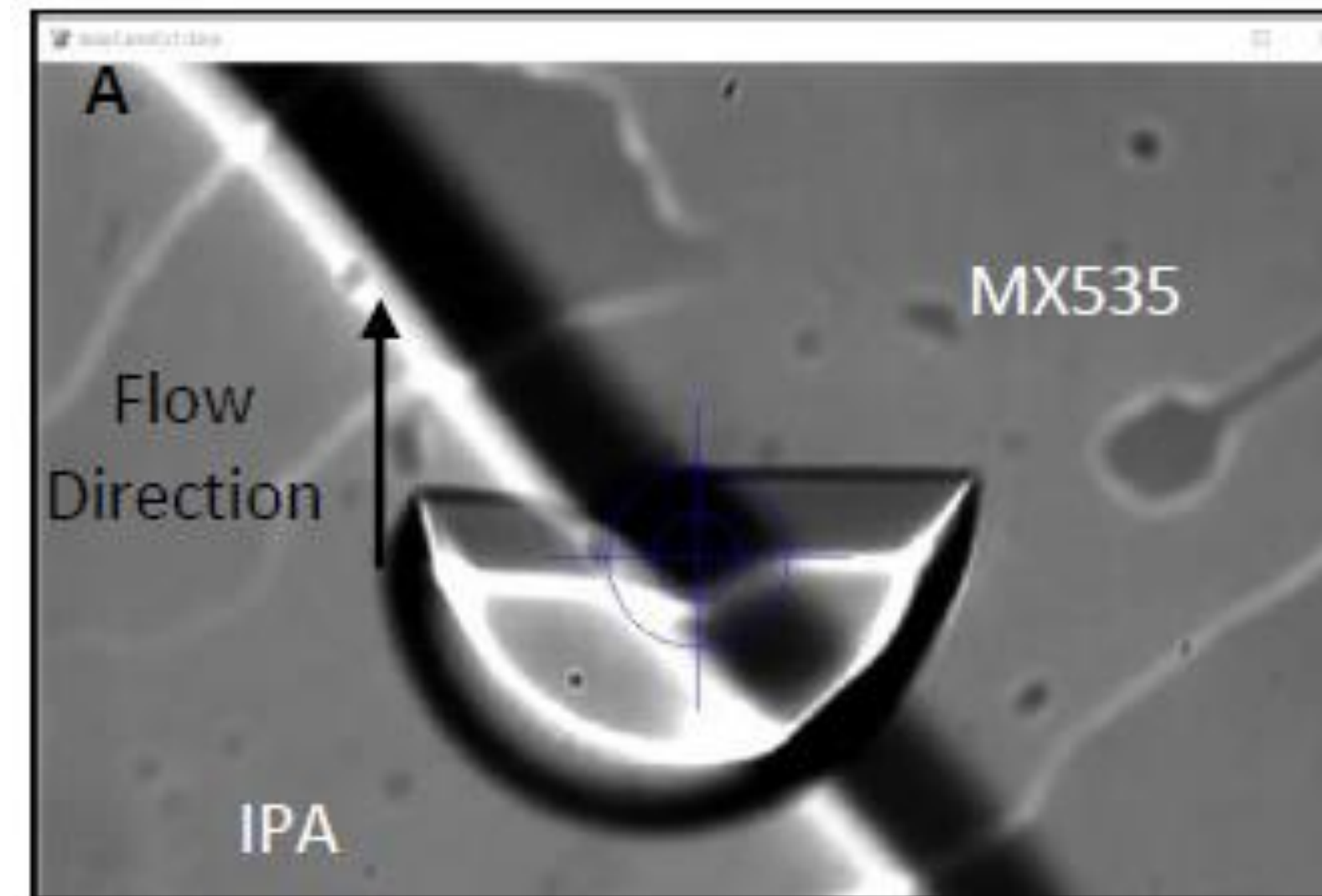
Compact integration and packaging



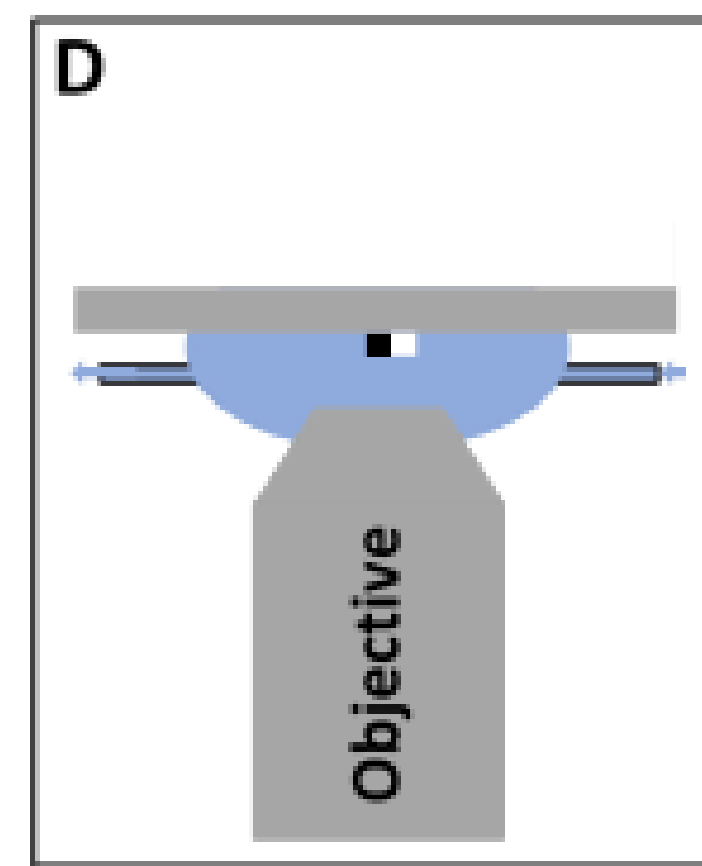
MX535



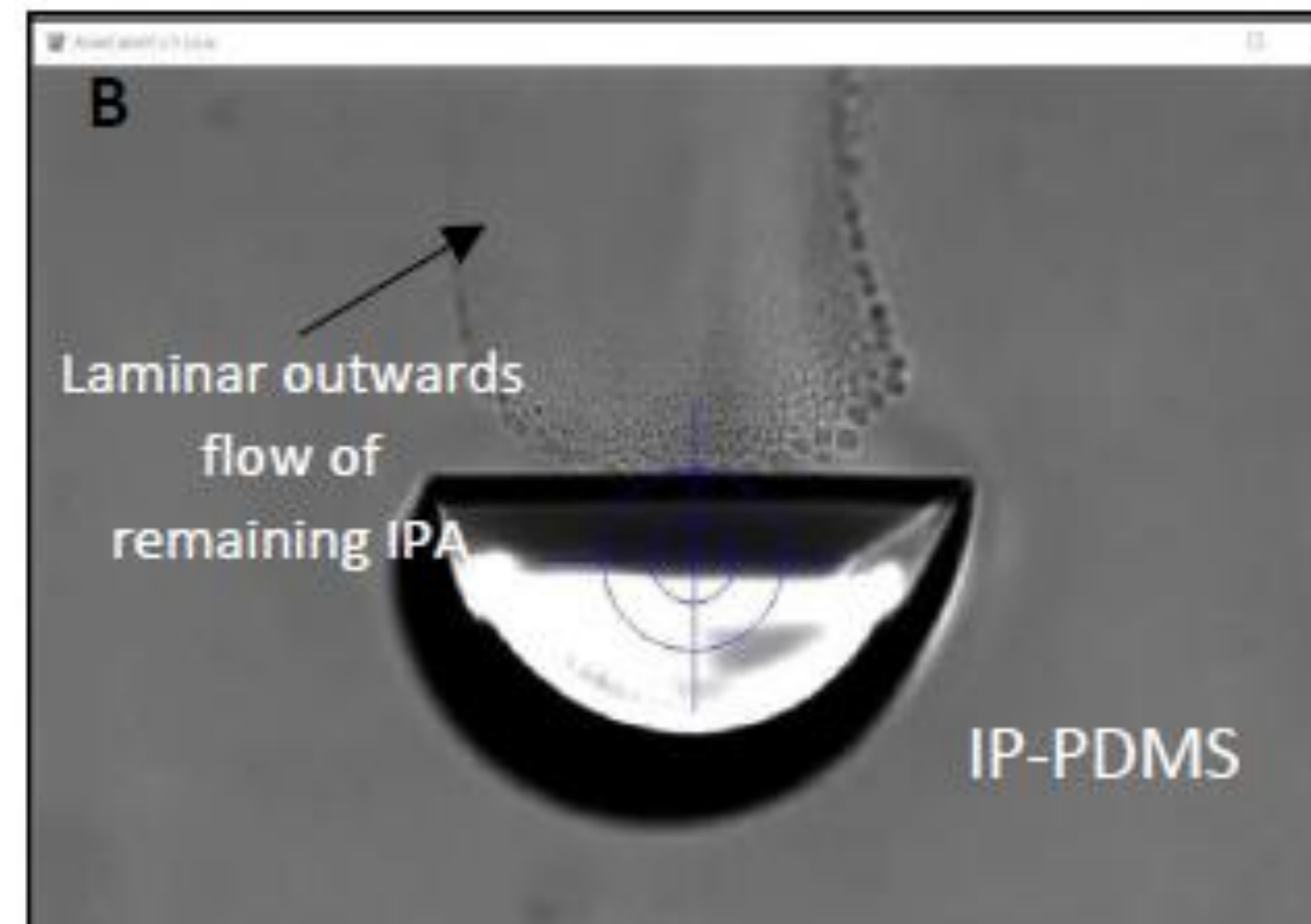
IPA

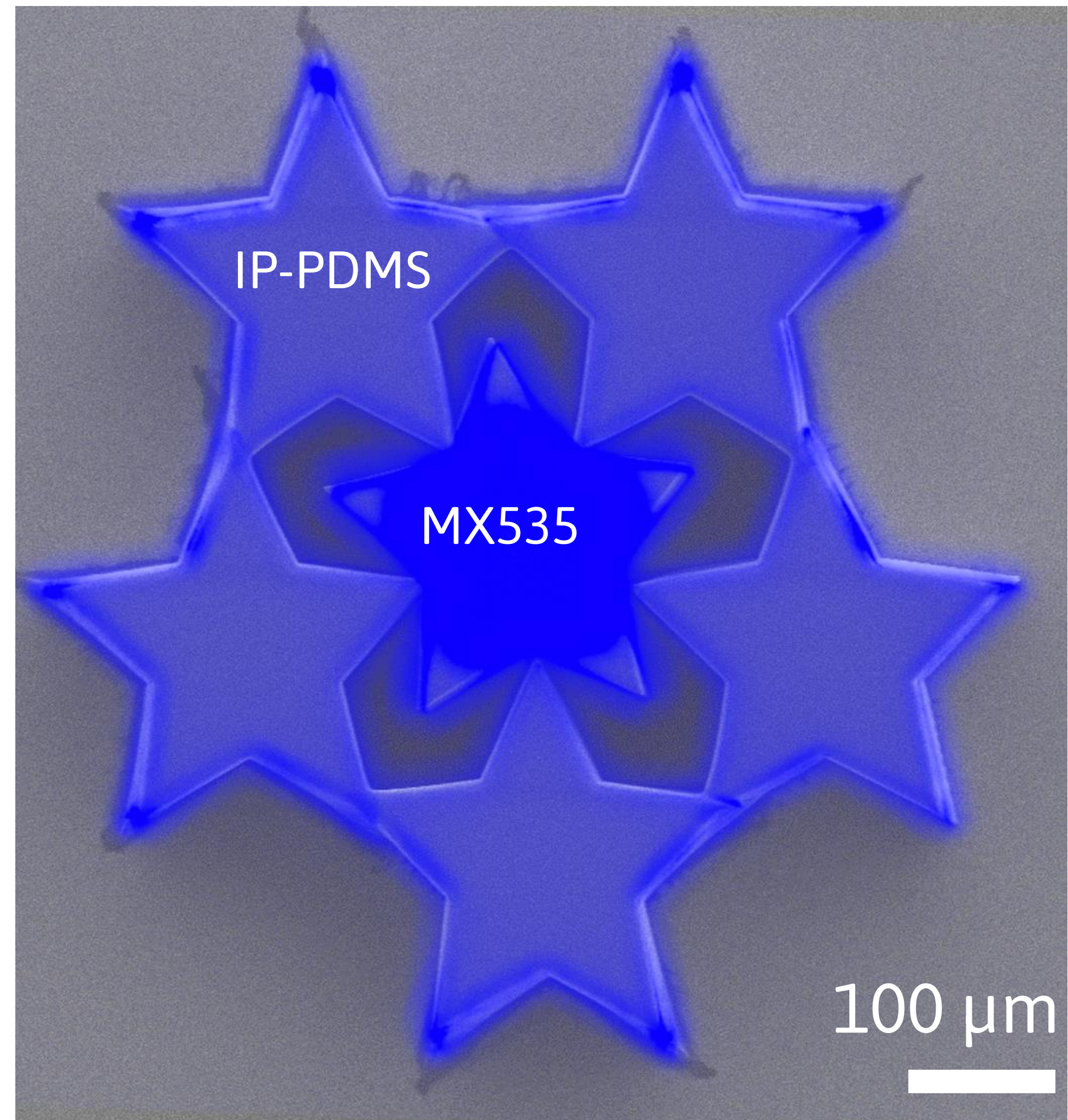
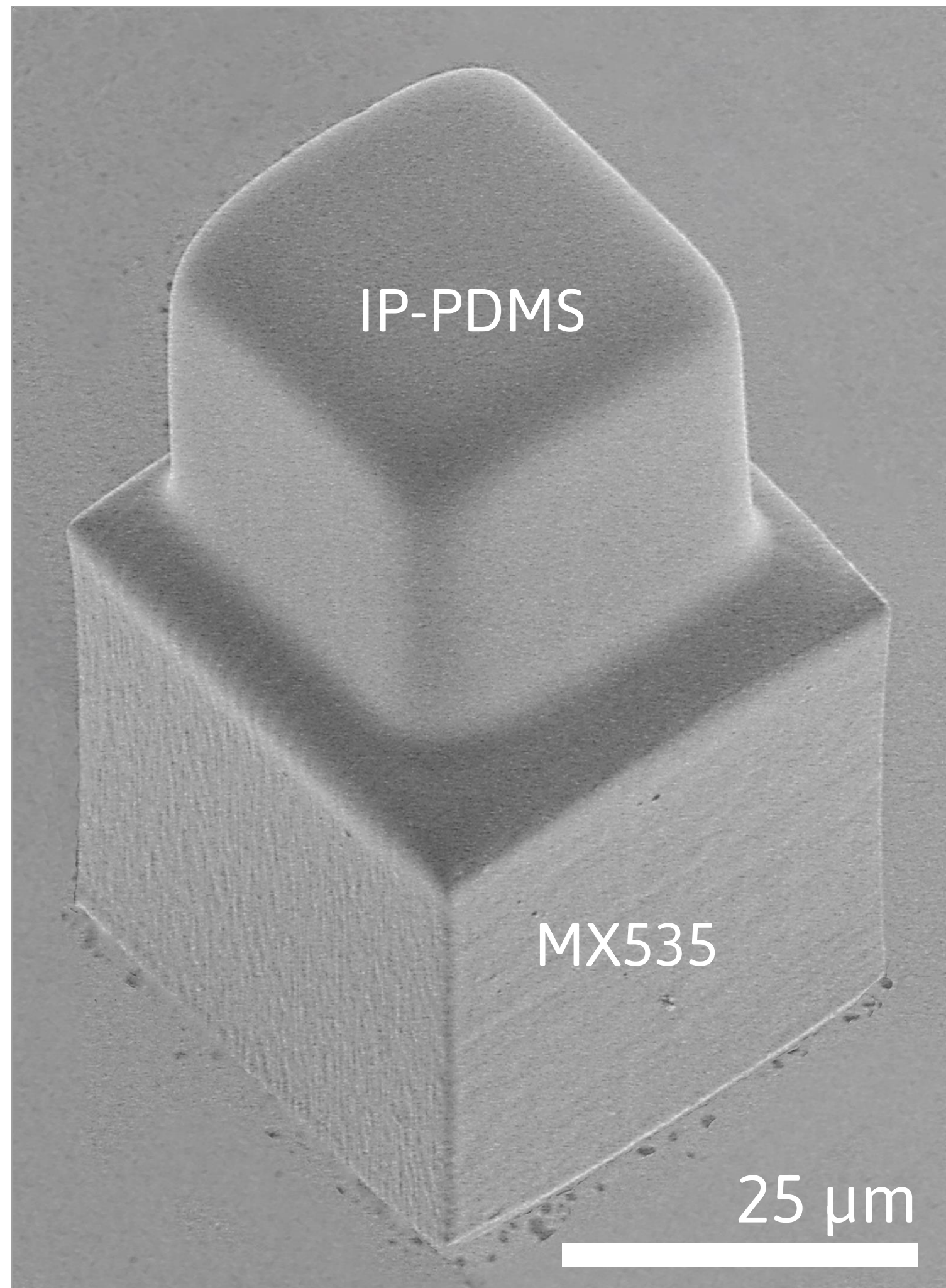


IP-PDMS



IPA

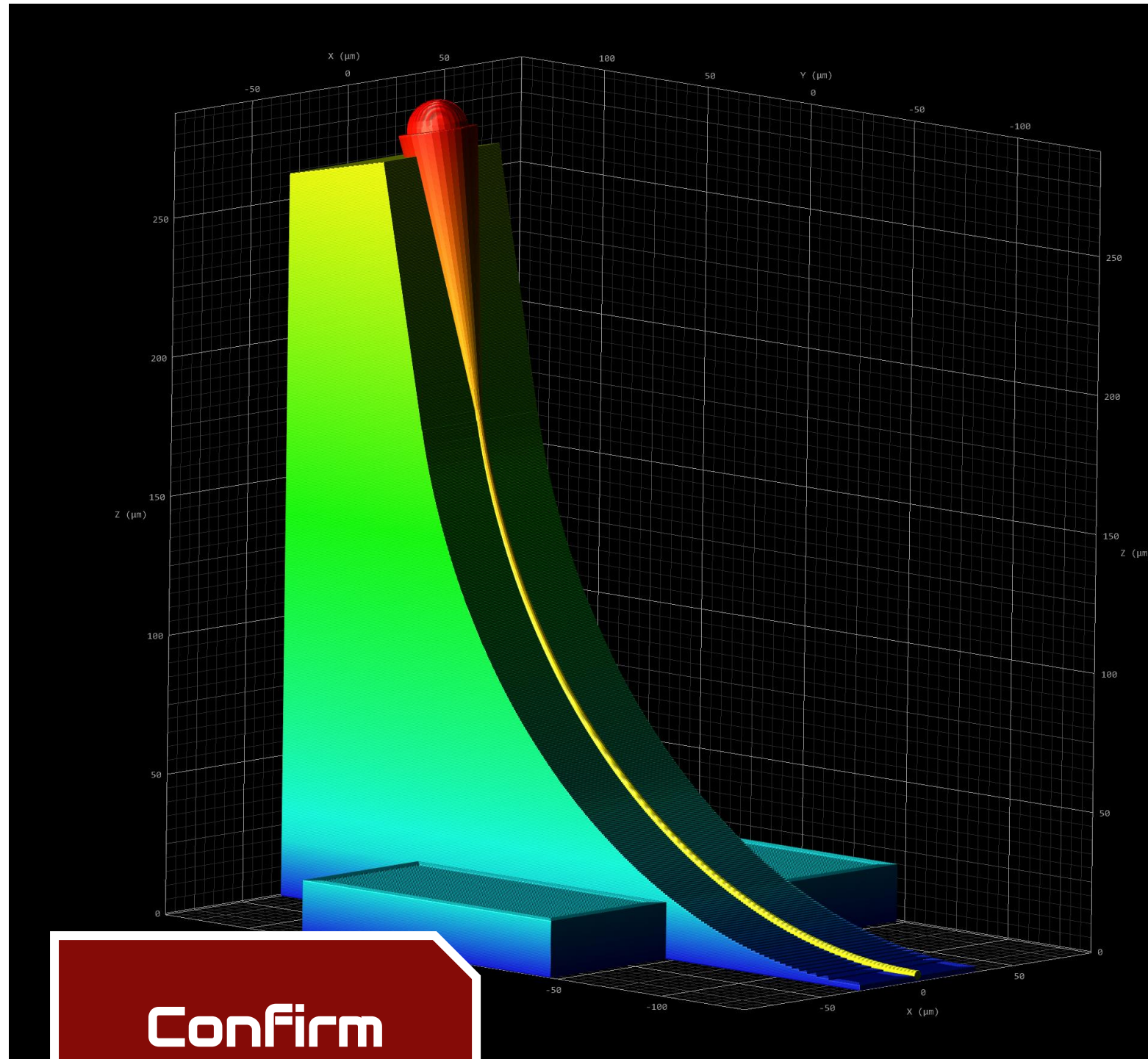




ENABLING SYSTEMS INTEGRATION

- More compact optical systems thanks to the miniaturization of the actual functionality.
- Greater freedom in terms of optical designs.
- Faster development cycles in prototyping.
- Cost-effectiveness in the production up to medium quantities.

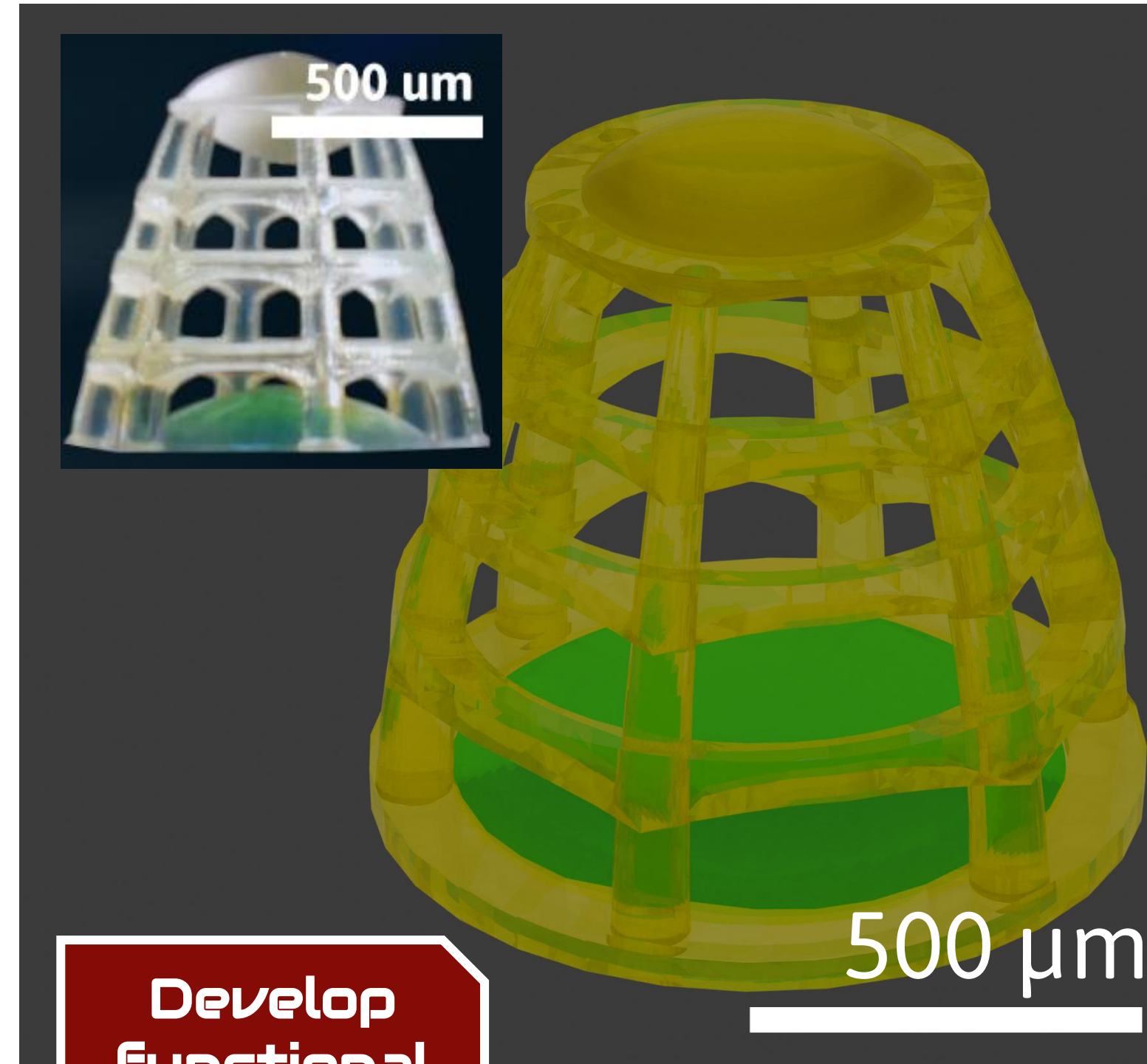
MergeCheck



**Confirm
Feasibility**

Check your ideas and designs
for 2PP print readiness

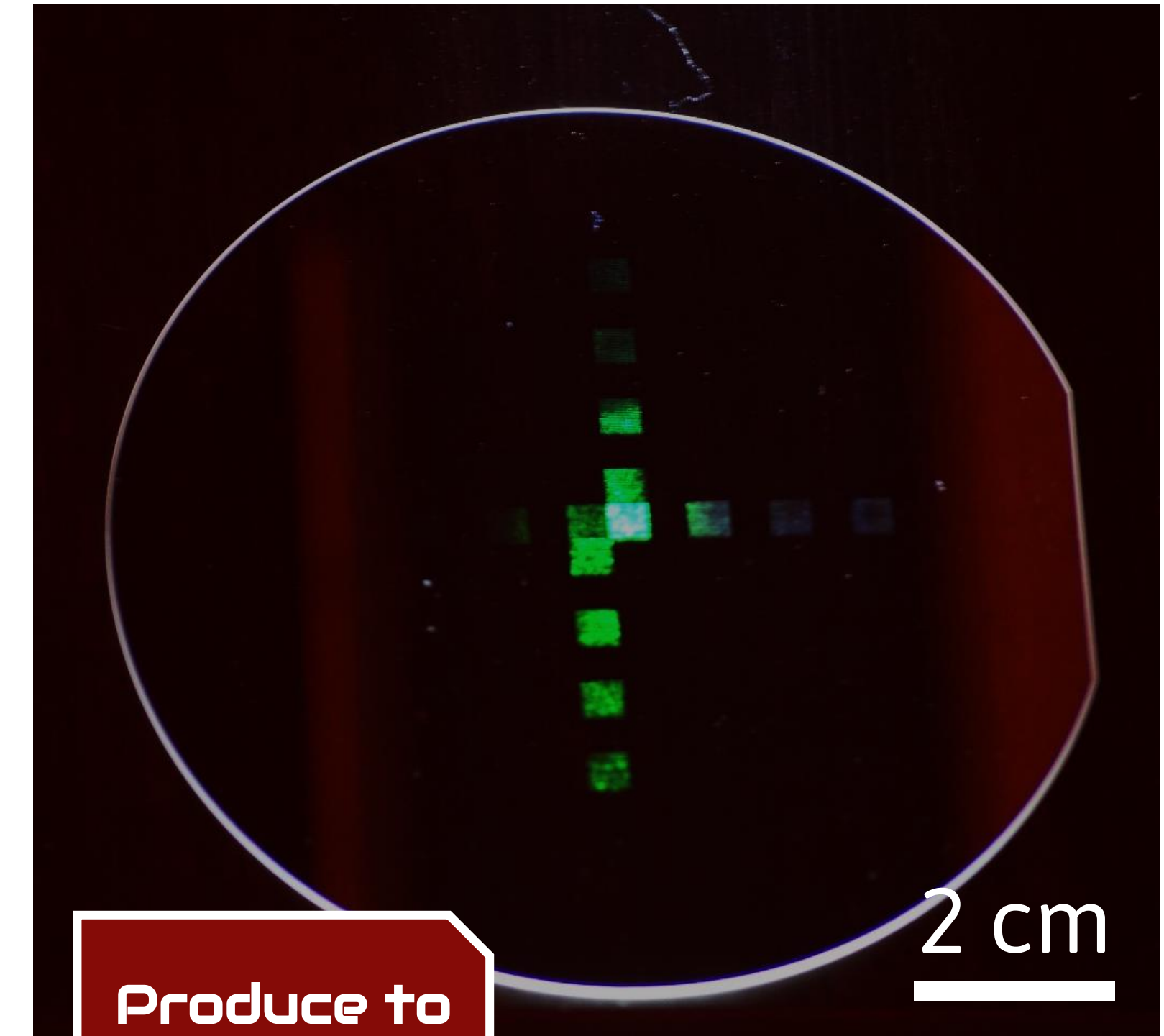
MergeStudy



**Develop
Functional
product**

Develop a functional product to
your specifications

MergeScale



**Produce to
scale**

Print small to medium series



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