PRINTING AT THE NANOSCALE

SCRONA

Spinoff ETH zürich

Scrona develops a novel platform that advances ink-jet printing from art to nanotechnology. While preserving the versatility and cost-efficiency of an ink-jet printer our technology improves resolution by a factor of thousand and allows scalability for high throughput.

Inkjet droplet

1 picoliter

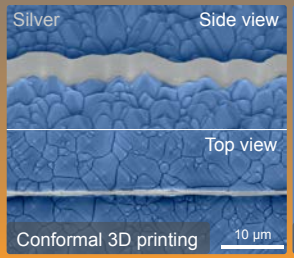
Diameter about
10 micrometer

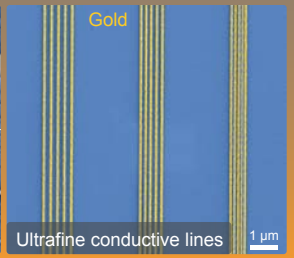
NanoDrip droplet

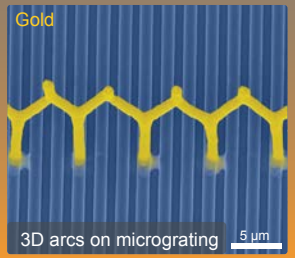
100 zeptoliter

Diameter about
100 nanometer

100x smaller in diameter
1'000'000x smaller in volume



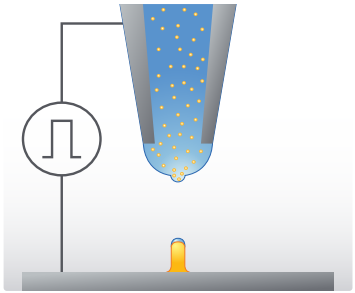




Printing beyond Art

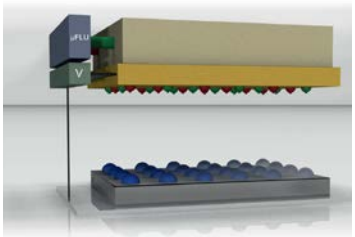
Scrona's NanoDrip technique:

- is based on electrically stimulated droplet ejection
- enables sub 100 nm printing
- is scalable to high throughput
- is non-contact and hence ideal for very thin and flexible substrates
- is additive and resource saving
- enables 3D printing



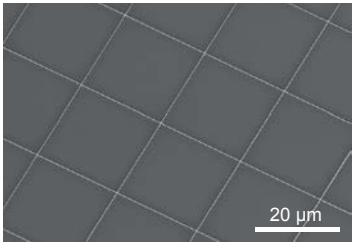
Scalability - Main Development Focus

Scrona currently develops its technology from a flexible and reproducible R&D tool to an industrial manufacturing device. Scrona's proprietary multi-nozzle print head incorporates the knowledge of almost six years of research and development. With first successful tests currently on-going, Scrona will soon be able to shift its focus from basic developments towards integration.



Transparent Conductors

There is an ongoing surge for the replacement of Indium Tin Oxide (ITO) as the material of choice in the fabrication of transparent conductors. Scrona has printed transparent ultrafine metal-mesh conductors that are invisible to the human eye. At the same time our films prove to be more conductive at equal transparency and are therefore also suitable for large-area applications where ITO fails to deliver.



What we can deliver

- An enabling technology that may fit your specific application.
- The possibility for a diversification through partnerships and appropriate license agreements.

What we are looking for

- A strong partner company that can assist our development process.
- Early stage investors with know-how in technology-related industries.
- Identification of the improvement potential of your application through the NanoDrip process.

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