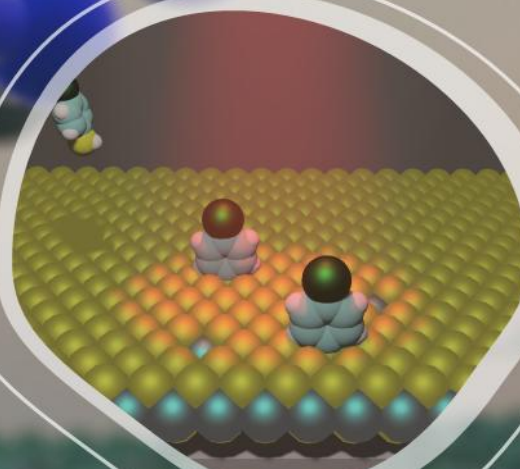
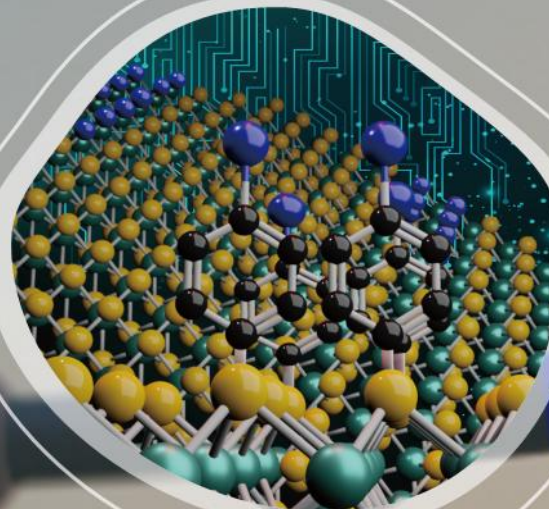


Low-dimensional Chemistry

AG Chen



Team

innovative

collaborative

interdisciplinary



international

friendly

dynamic

supportive

What do we research on...

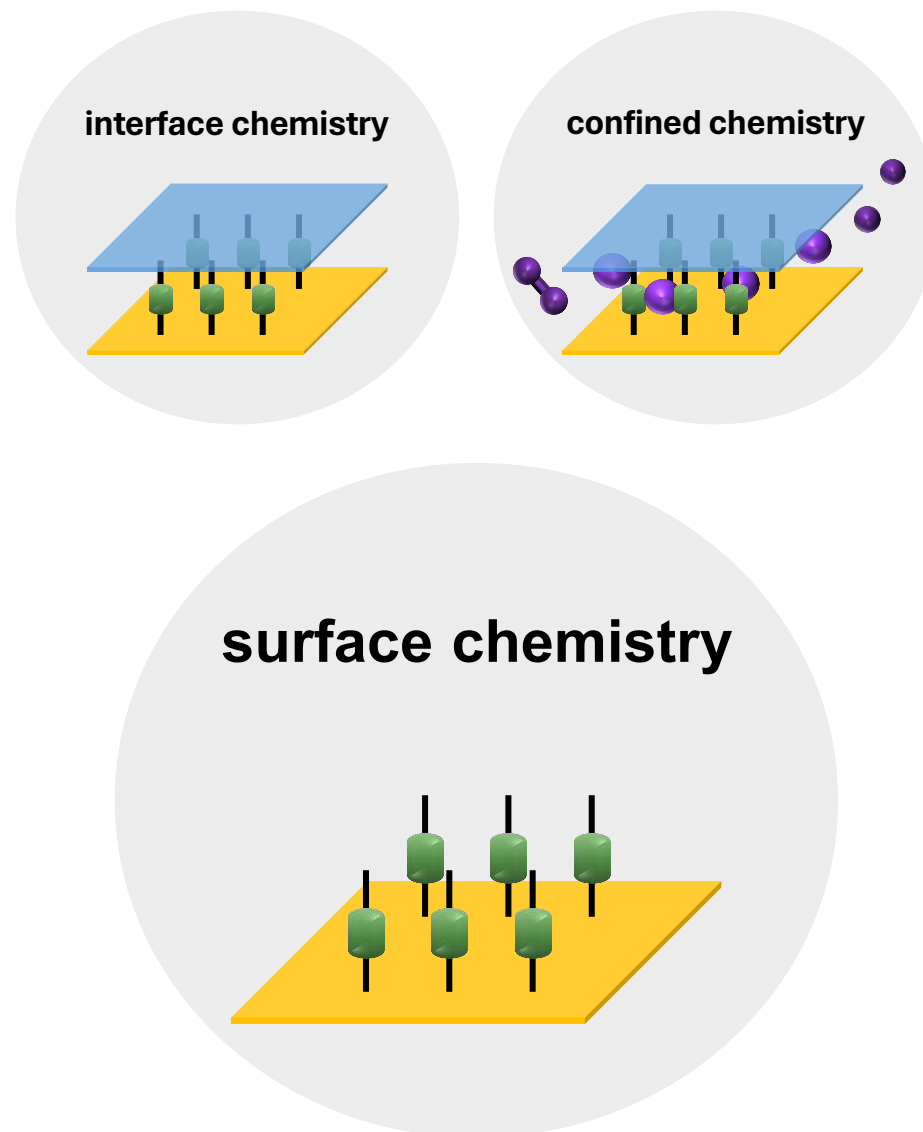
We combine **organic chemistry** with **low-dimensional materials science (2D materials)**

→ not just synthesizing molecules, but **bringing them onto 2D material surfaces** (e.g., MoS_2 , graphene)

We perform **chemistry outside the flask**

→ reactions directly on surfaces of atomically thin materials

→ controlling structure and function on the nanoscale



Experience with advanced analytical techniques...



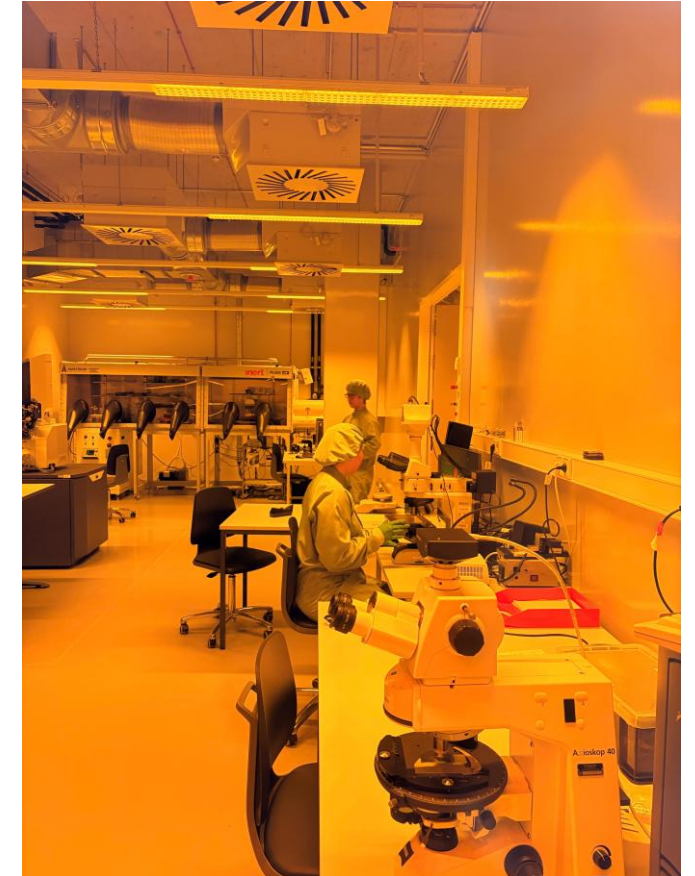
**Raman
spectroscopy**



**AFM (Atomic Force
Microscopy)**

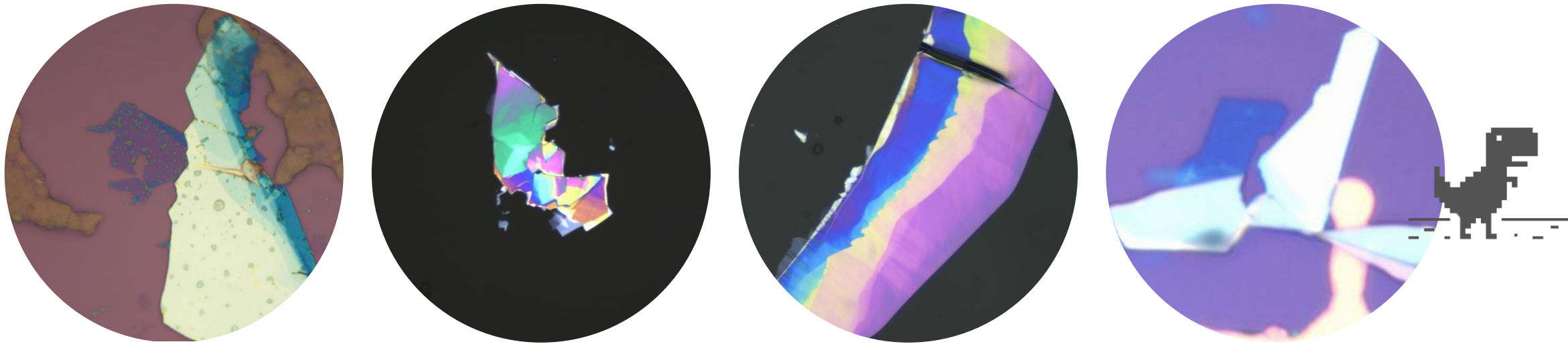


**Optical
microscopy**



Clean-room processes

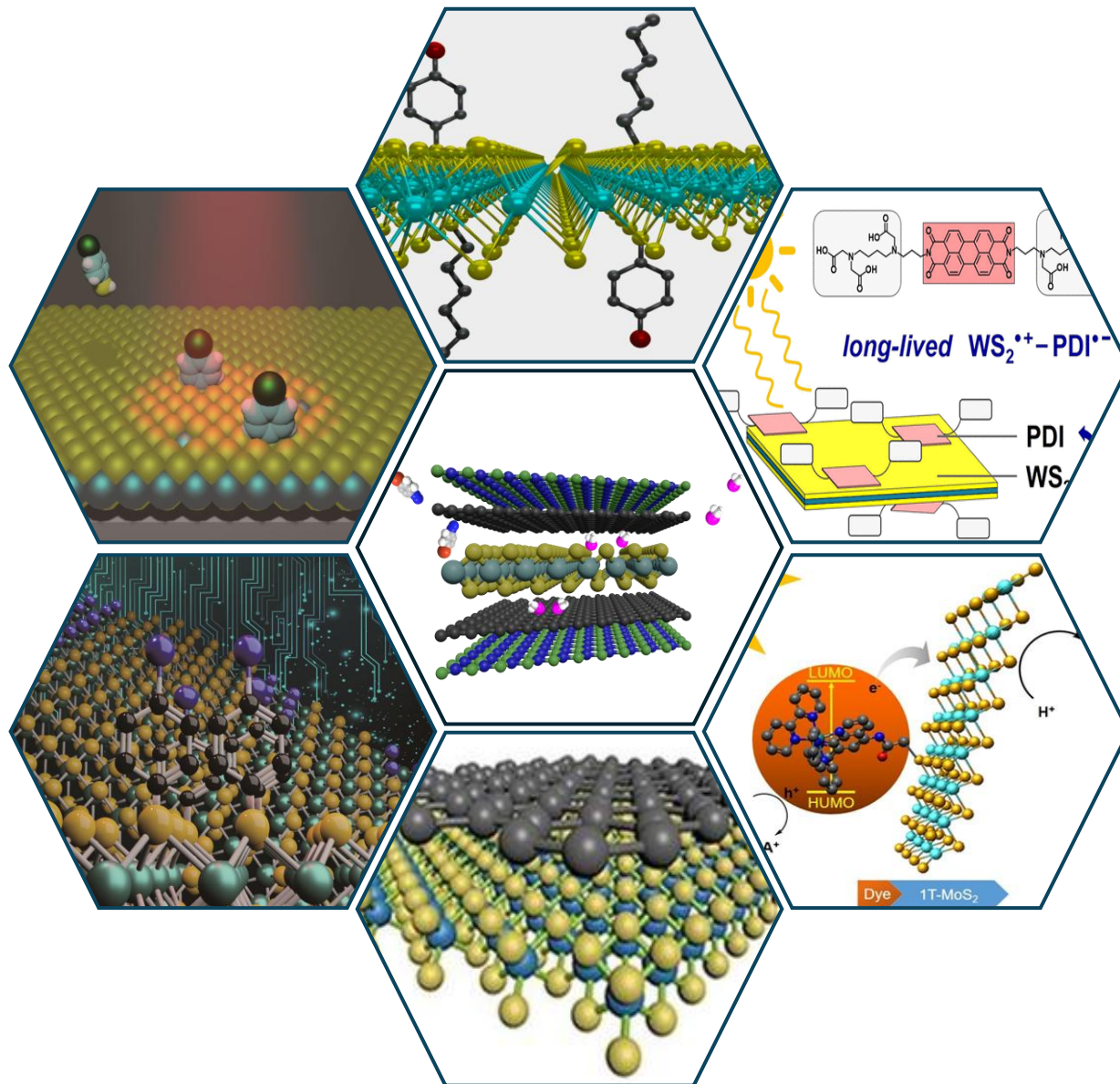
Chemistry on a Single Layer of Atoms



These colorful shapes are 2D materials — just a few atoms thick.

Each flake forms a unique, accidental artwork — we never know what shape we'll get!

What have we achieved...



Surface Chemistry

Angew. Chem. Inter. Ed. **2016**, 55, 5803.

Chem. Eur. J. **2020**, 26, 6535. (**Cover Figure**)

Angew. Chem. Inter. Ed. **2015**, 54, 2638.

Chem. Eur. J. **2017**, 23, 1.

Chem. Eur. J. **2020**, 26, 1.

Chem. Eur. J. **2024**, e202403645.

Phys. Rev. B **2022**, 106, 104103.

Chem. Eur. J. **2021**, 27, 1-7. (**Cover Figure**)

J. Am. Chem. Soc. **2022**, 144, 13, 5834-5840.

Chem. Eur. J. **2024**, e202403645.

Adv. Mater. **2025**, 2425776.

Interface Chemistry

J. Am. Chem. Soc. **2022**, 144, 22, 9645-9650.

Angew. Chem. Int. Ed. **2024**, e202415922.

Confined Chemistry

Phys. Rev. B 106, **2022**, 104103.

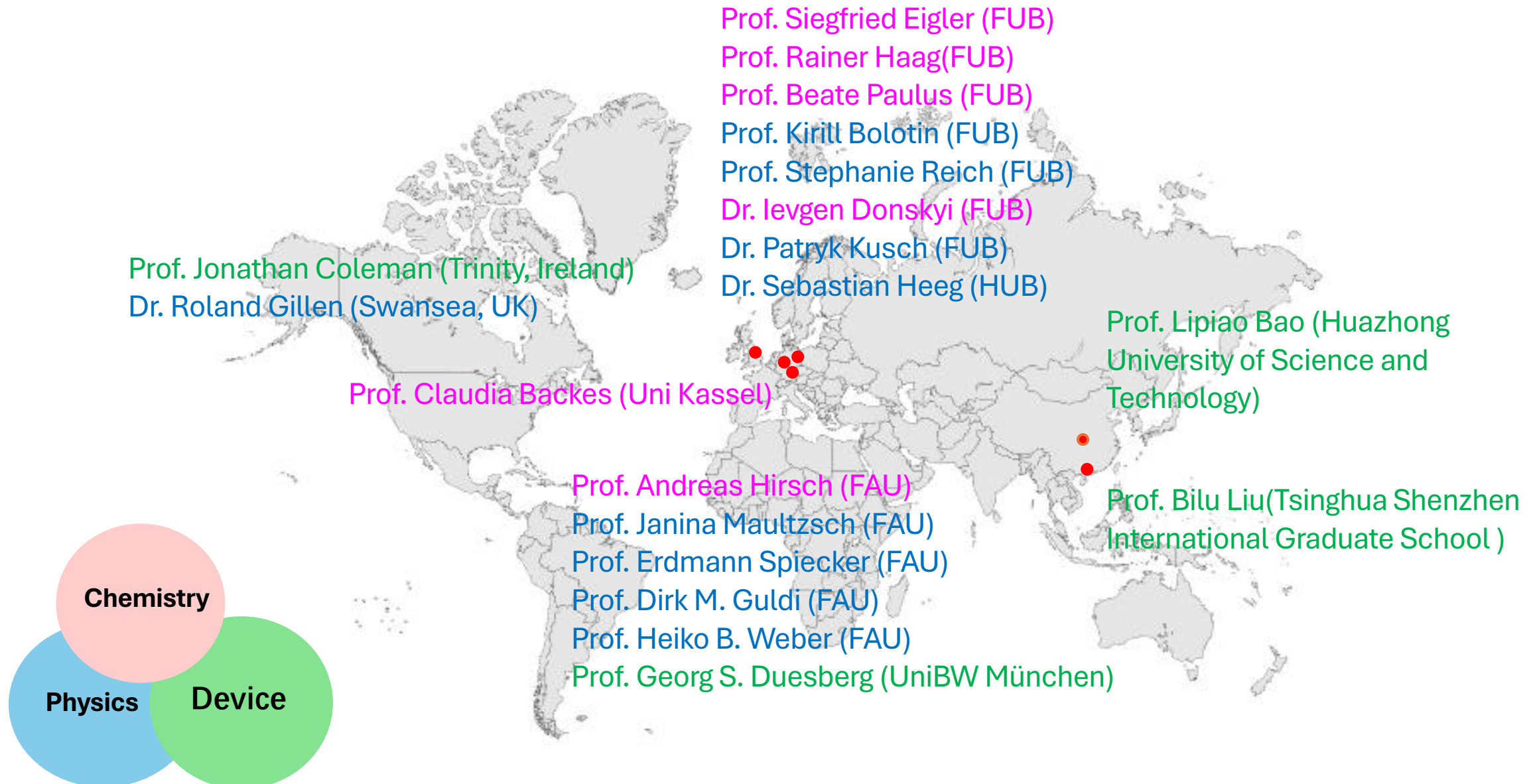
Chem. Mater. **2018**, 30, 6978.

Review

Adv. Mater. **2016**, 28, 5738.

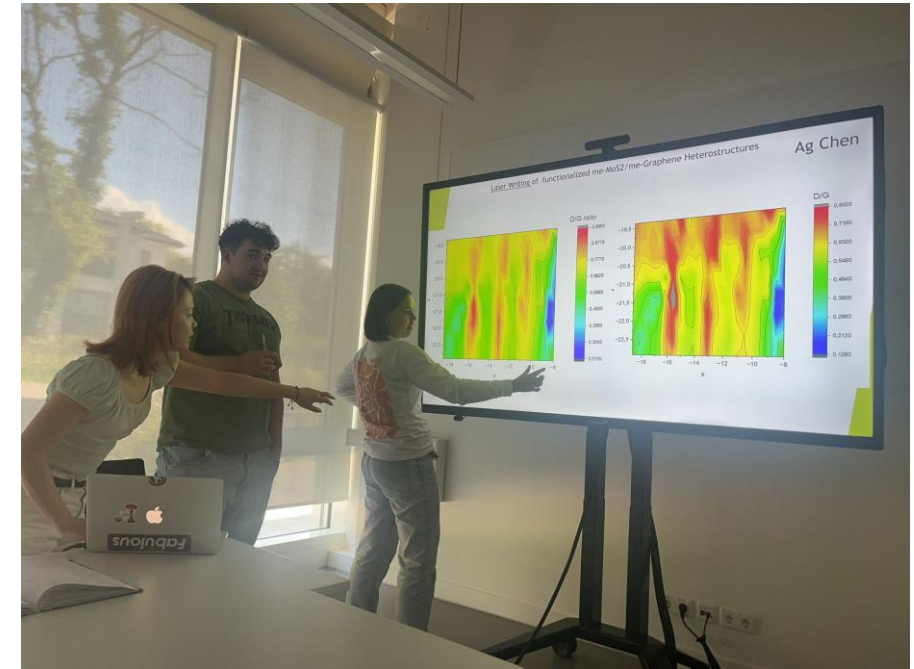
Angew. Chem. Int. Ed. **2025**, e202424932.

Who do we collaborate with...



What we offer...

- research internship
- bachelor's and master's thesis
- hands-on experience in the lab and cleanroom
- training on advanced techniques
- fun and collaborative team — we like to learn together



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