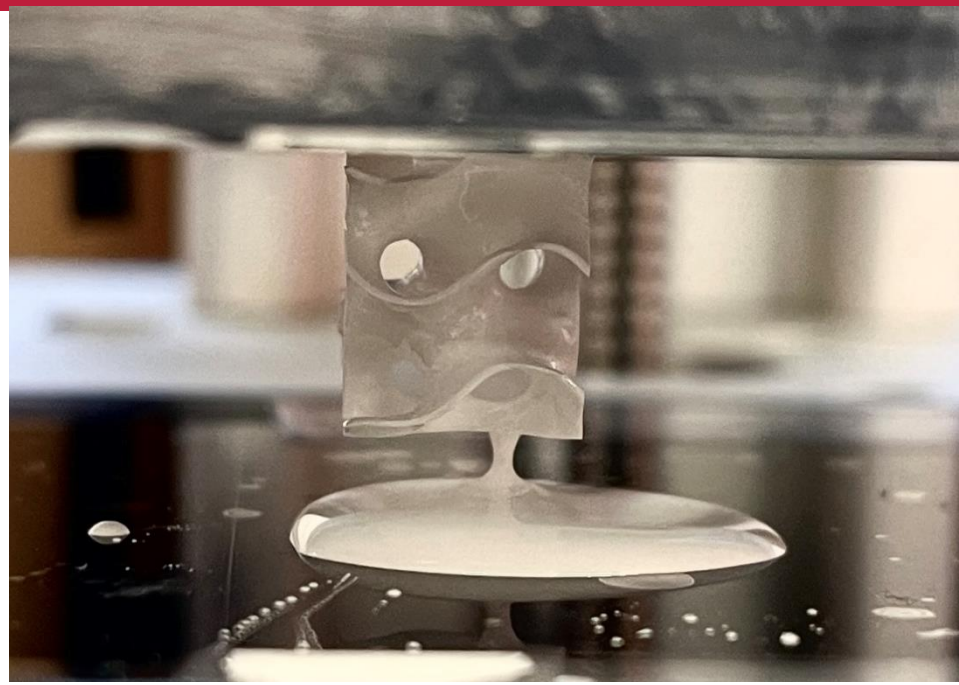
3D printing of piezoelectric materials

✓ **Bachelor- / Studien- / Masterarbeit**



3D printing opens new sensor and actuator manufacturing possibilities. Piezoelectric materials can be 3D printed and can achieve improved performance. This work focuses on development and improvement of existing materials for 3D printing and their characterization. Main parameters influencing the process are defined and systematically improved to achieve the desired result. Different materials to be developed are 3D printed, prepared and their printing performance is evaluated and compared.

Main tasks:

- 3D printing of the specimens and their preparation for characterization
- Investigation and comparison of different materials
- Development of manufacturing steps, ensuring quality control

Additional information:

- Students can have no prior experience in 3D printing
- Exact details of the topic cannot be revealed publicly, please contact me

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