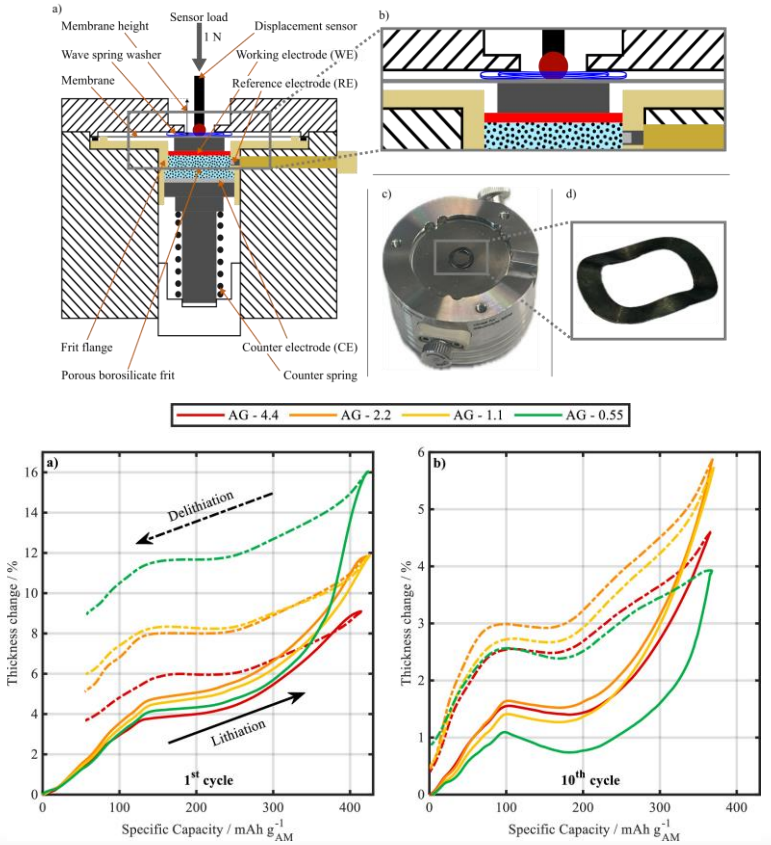
Investigating the Impact of Various Binder Contents and Compression on Graphite Single-Electrode Dilatometry Measurements

Main findings:

- Modified setup measuring thickness change at higher pressure exhibits higher reliability, due to suppressed electrode bending
- Irreversible thickness change decreases with higher binder content by preventing particle restructuring
- Depending on binder content up to 60% of active material volume change is accommodated by pore volume



Kücher et al. 2025, Journal of The Electrochemical Society 172, https://doi.org/10.1149/1945-7111/adb13d