**Appendices for manuscript**

Appendix 1: Contact angle on mica for CO2-brine-mica systems (Jafari and Jung (2018)



Appendix 2: CO2-brine contact angle on quartz surface versus pressure (Farokhpoor et al., 2013)



Appendix 3: Receding contact angles for sandstone/CO2/DI water as a function of pressure and temperature; RMS = 540 nm, SD = 3. Alnili, et al., (2018)

