

Figure 1: Temperature-dependent Raman spectra of MoS₂ on Au acquired at **a)** temperature and **b)** room temperature post-anneal. E_{2g} and A_{1g} peaks occur at ~ 383 cm⁻¹ and 407 cm⁻¹, respectively.

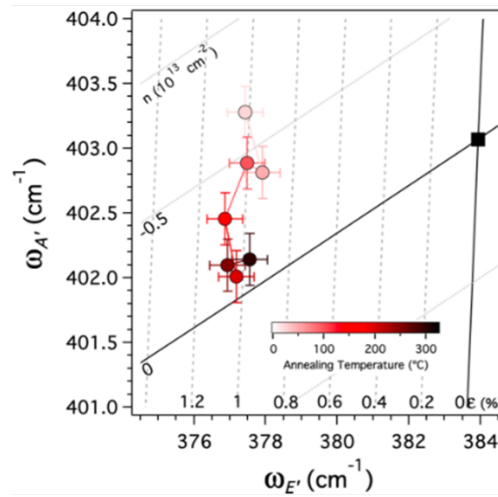


Figure 2: Temperature-dependent strain and doping of SL-MoS₂ on Au after annealing at progressively higher temperatures.