

Figure1. XRD results of ALD  $\text{HfO}_2$  and 1:4 Er-doped  $\text{HfO}_2$  films.

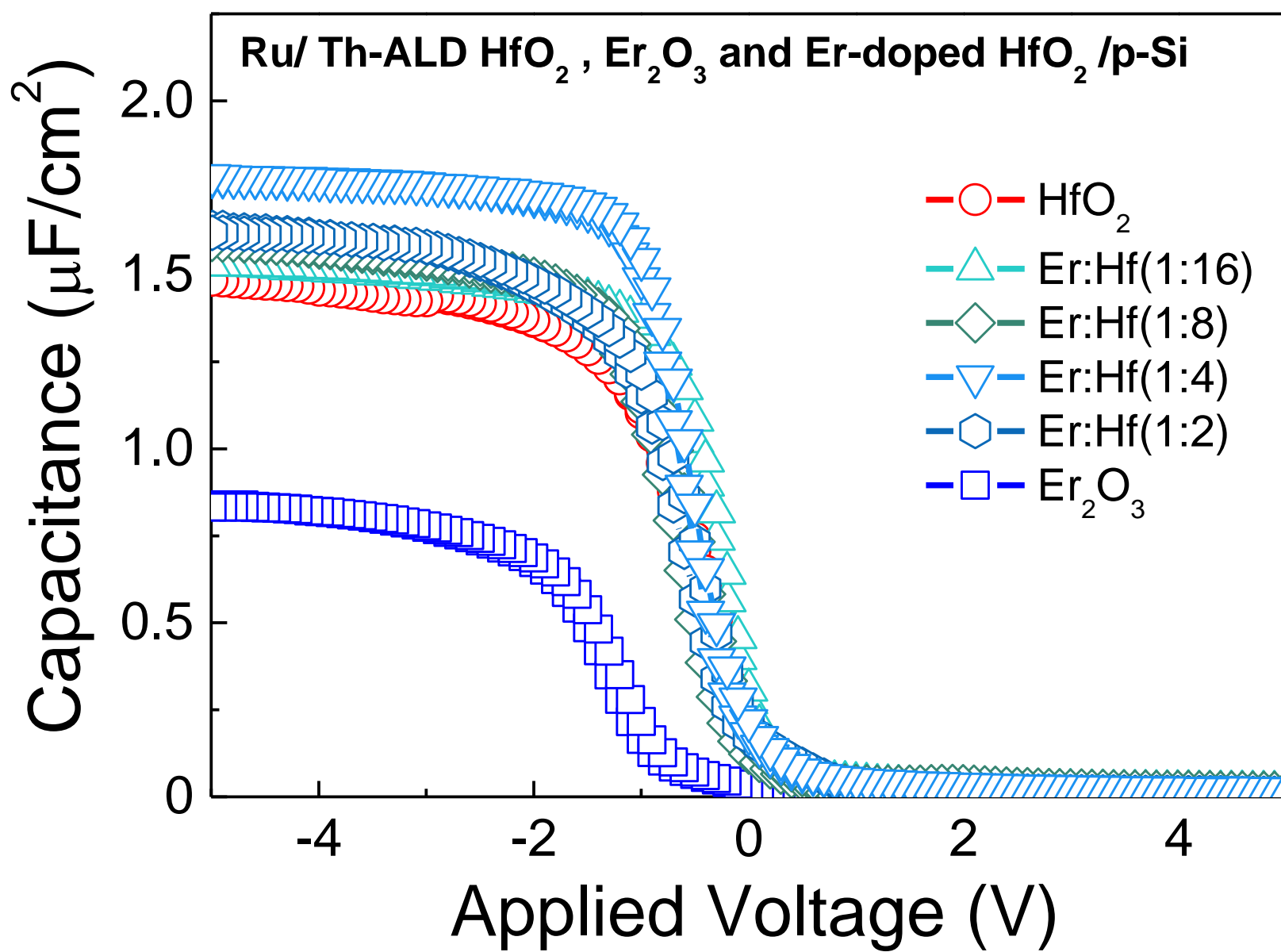


Figure2. C-V curves of MOS capacitors with ALD  $\text{HfO}_2$  and Er-doped  $\text{HfO}_2$  films with varying compositions.