

Fig. 1 (a) 10 kV SEI of 1.08 J/cm² laser-induced damage/rippled regions. $E_B=1.5$ keV DRCLS of (b) undamaged, (c) 0.84 J/cm², and (d) 1.08 J/cm^r rippled regions. Depth profiles of (e) crystallinity and (f) 2.4 eV emission show defect increases towards the surface that correlate inversely with crystalline order.



Fig.3 2.1 J/cm² crater (a) non-contact AFM and (b) KPFM maps showing crests and troughs with corresponding work function differences. (c) $E_B=1.5$ kV DRCLS crest and trough spectra show relative increase in 2.4 eV defect emission within crest vs trough region.