



**Fig. S1** TEM images of (a) unmodified Mt (scale: 50 nm), (b) AAS/1.0 wt% I-Mt (scale: 50 nm), and (c) AAS/1.0 wt% I-Mt (scale: 20 nm); (d) thickness of the nanosheets in AAS/1.0 wt% I-Mt.