

Figure. S1. Details of dimensional information for metal specimens.

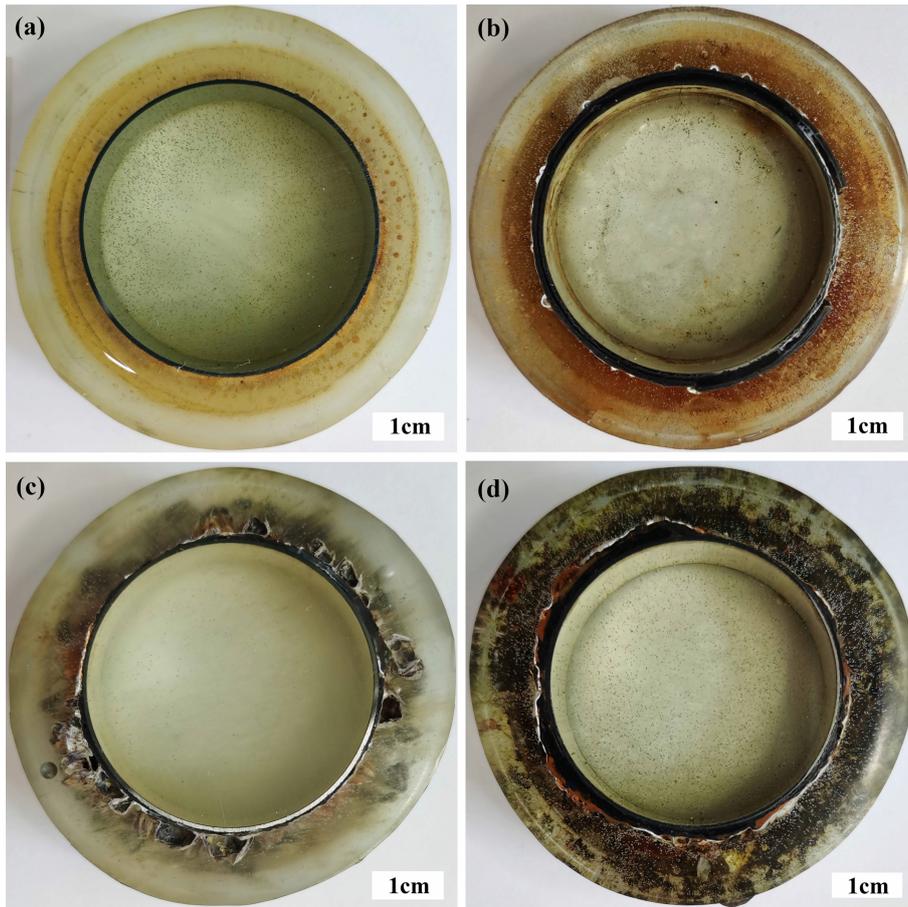


Figure. S2. Macro-morphologies on the cross-section of the sensors after exposure in the atmospheric zone (a), the splash zone (b), the tidal zone (c), and the immersion zone (d), respectively.