Support Information of: Polyether ether ketone coated with ultra-thin films of titanium oxide and zirconium oxide fabricated by DC magnetron sputtering for biomedical application

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Supporting Figures:

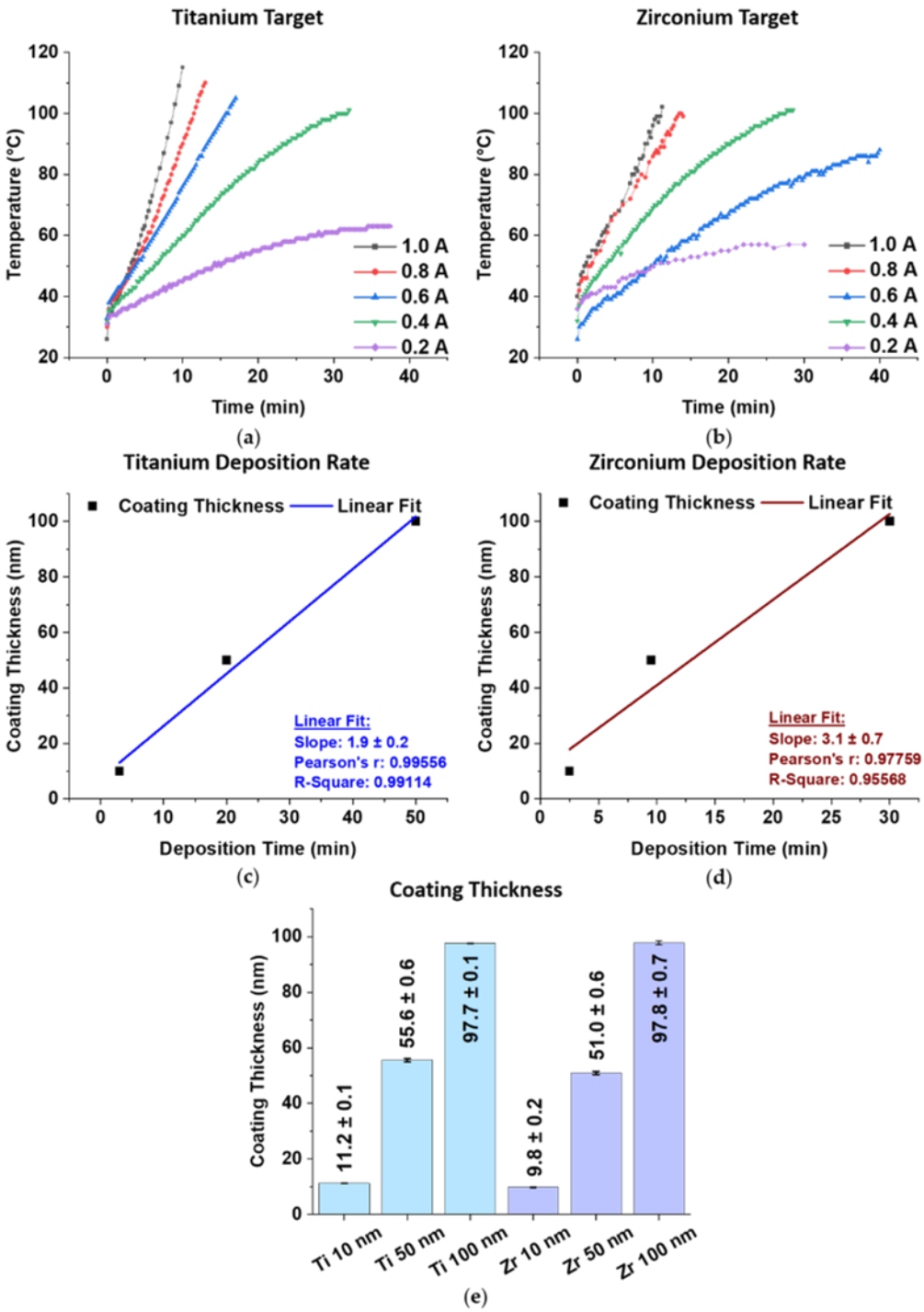

Figure S1. Relationship between sample holder temperature and DC magnetron sputtering time at current values from 0.2 A to 1.0 A for (**a**) Ti target and (**b**) Zr target. Obtained coating thickness for the applied deposition times for (**c**) Ti target and (**d**) Zr target. (**e**) Resulting coating thickness range determined by a spectral ellipsometer using Si wafers for magnetron sputtering.

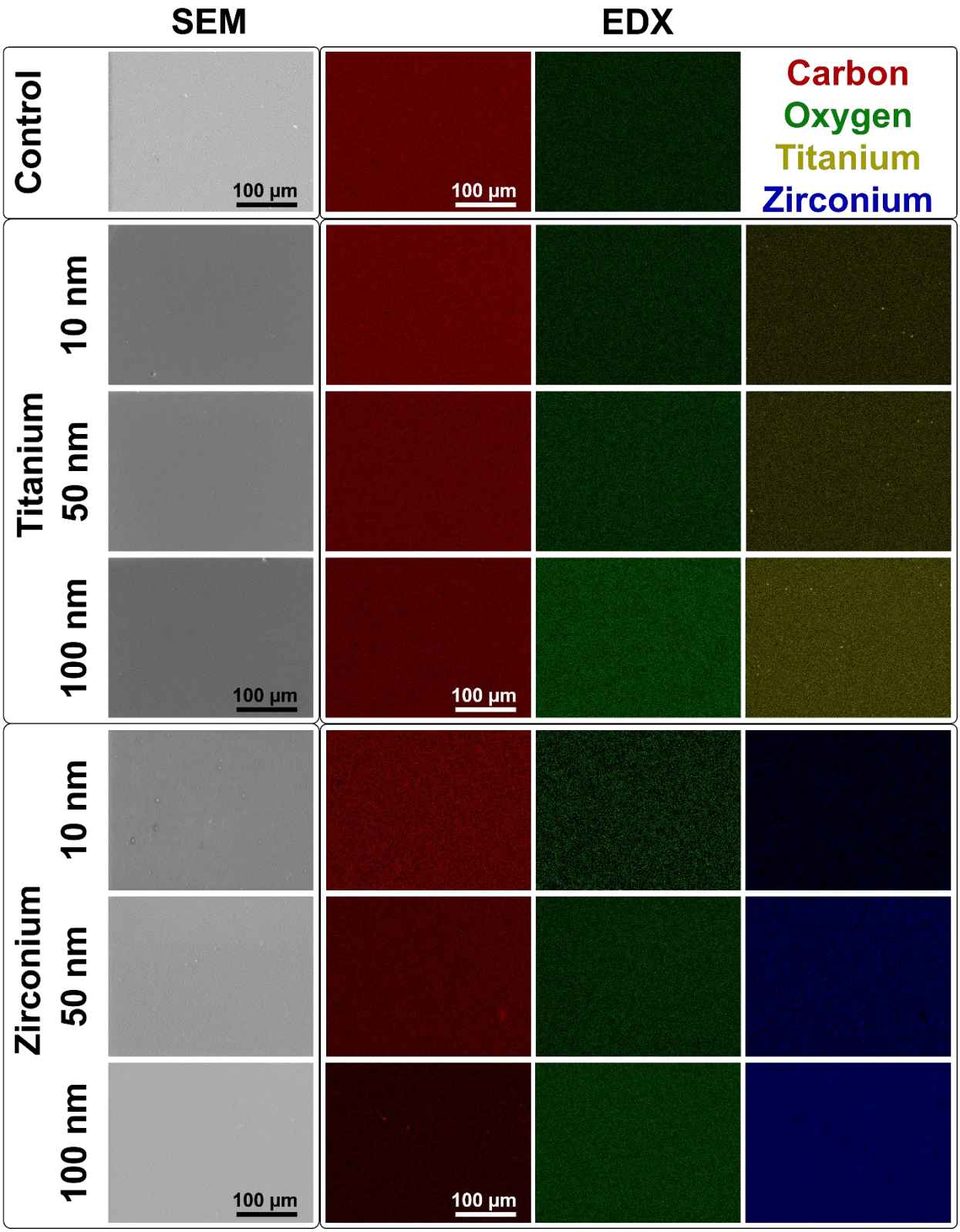

Figure S2. SEM and EDX mapping micrographs of the investigated PEEK sample coatings. Left column SEM micrographs; after that following columns are the EDX micrographs for the following elements: carbon (red), oxygen (green), titanium (yellow) and zirconium (blue/violet). The scale bar is 100 µm for each micrograph.

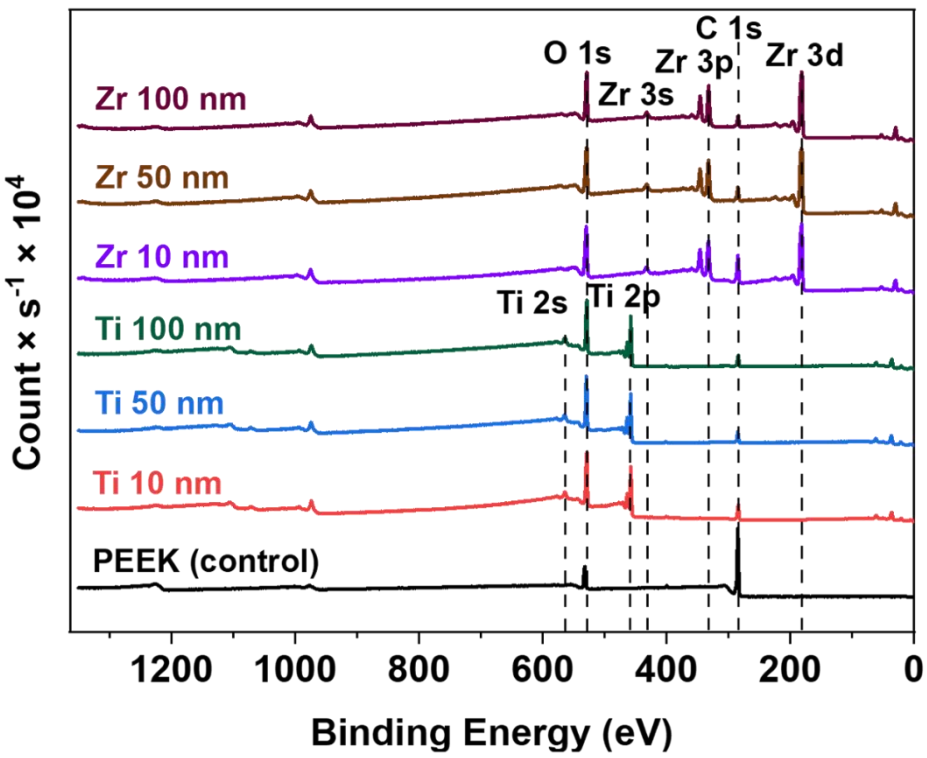

Figure S3. XPS survey spectra of all investigated PEEK samples.