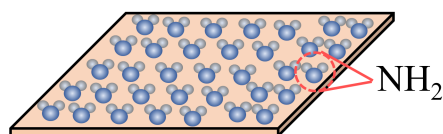
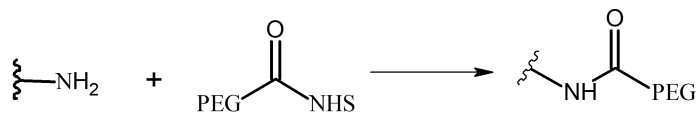
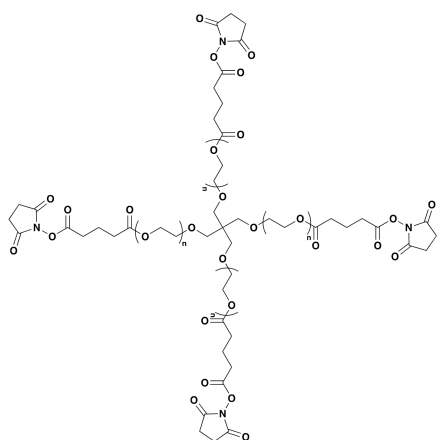


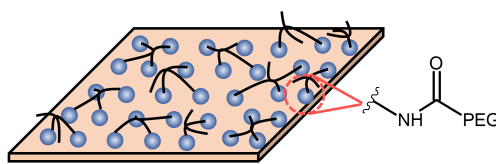
2PEGNHS



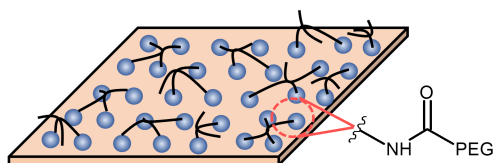
dBPC, dPPC



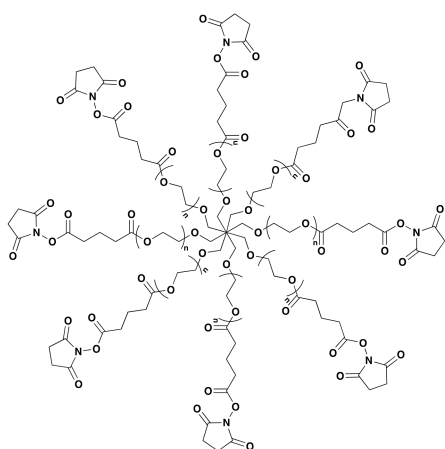
4PEGNHS



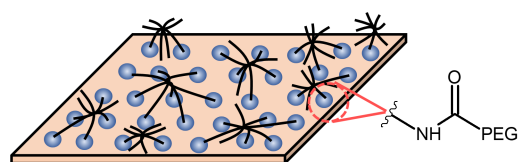
2PEG modified tissue



4PEG modified tissue



8PEGNHS



8PEG modified tissue

Figure S1. a) Chemical structure of 2-arm, 4-arm, 8-arm PEG-NHS. b) Mechanical reaction between the material and PEG-NHS molecules. c) Illustration of 2-arm, 4-arm, and 8-arm PEG-NHS-modified dBPC and dPPC. 2,4,8: PEG branches, B,P: bovine, porcine.

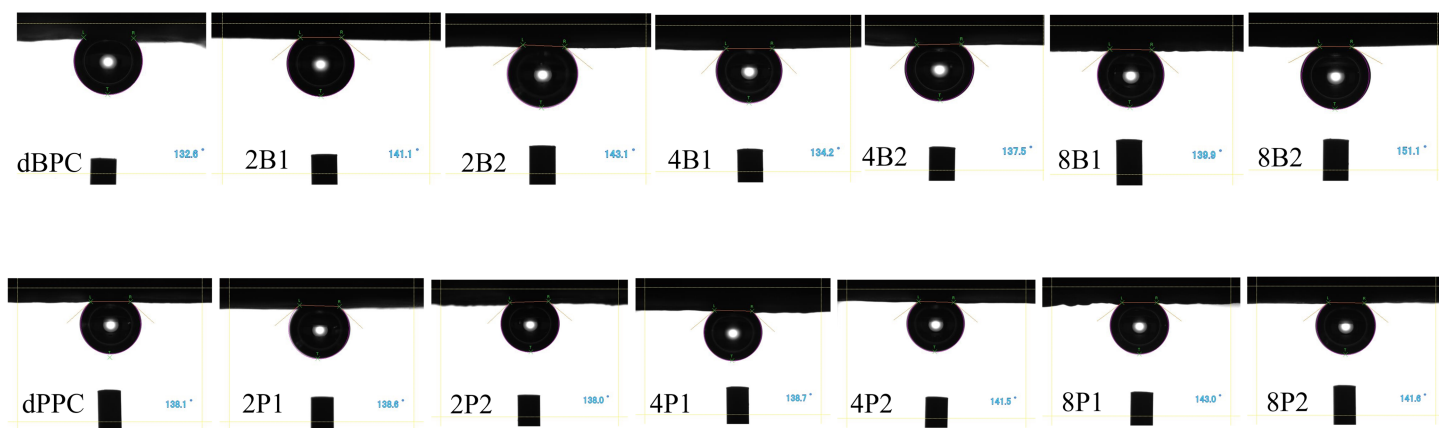


Figure S2. Captive air bubbles of non-modified and PEG-modified decellularized bovine and porcine pericardium. 2,4,8: PEG branches, B,P: bovine, porcine, 1,2: NHS ratio.

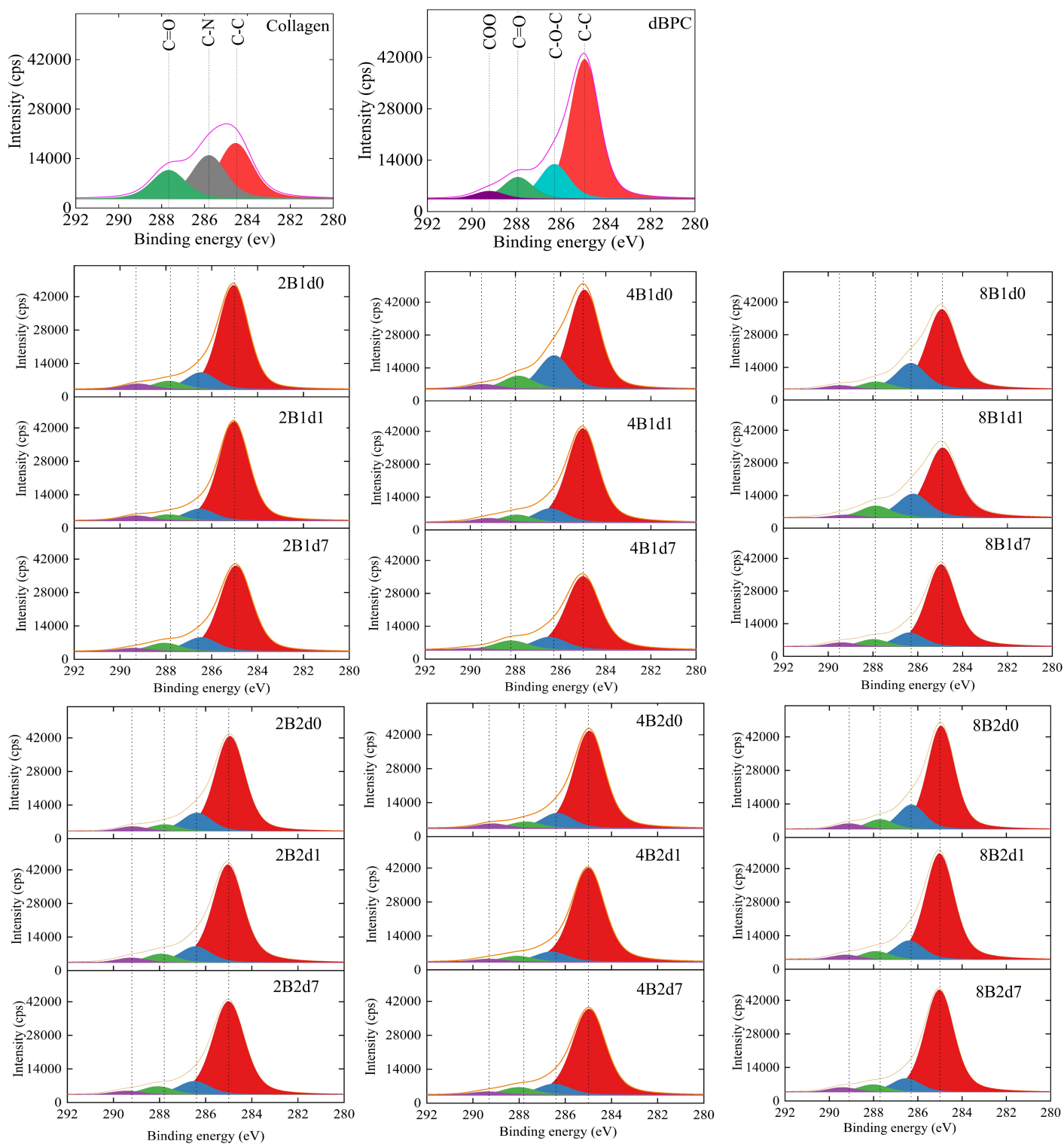


Figure S3. Deconvoluted XPS spectra of non-modified and PEG-modified decellularized bovine pericardium. 2,4,8: PEG branches, 1,2: NHS ratio.

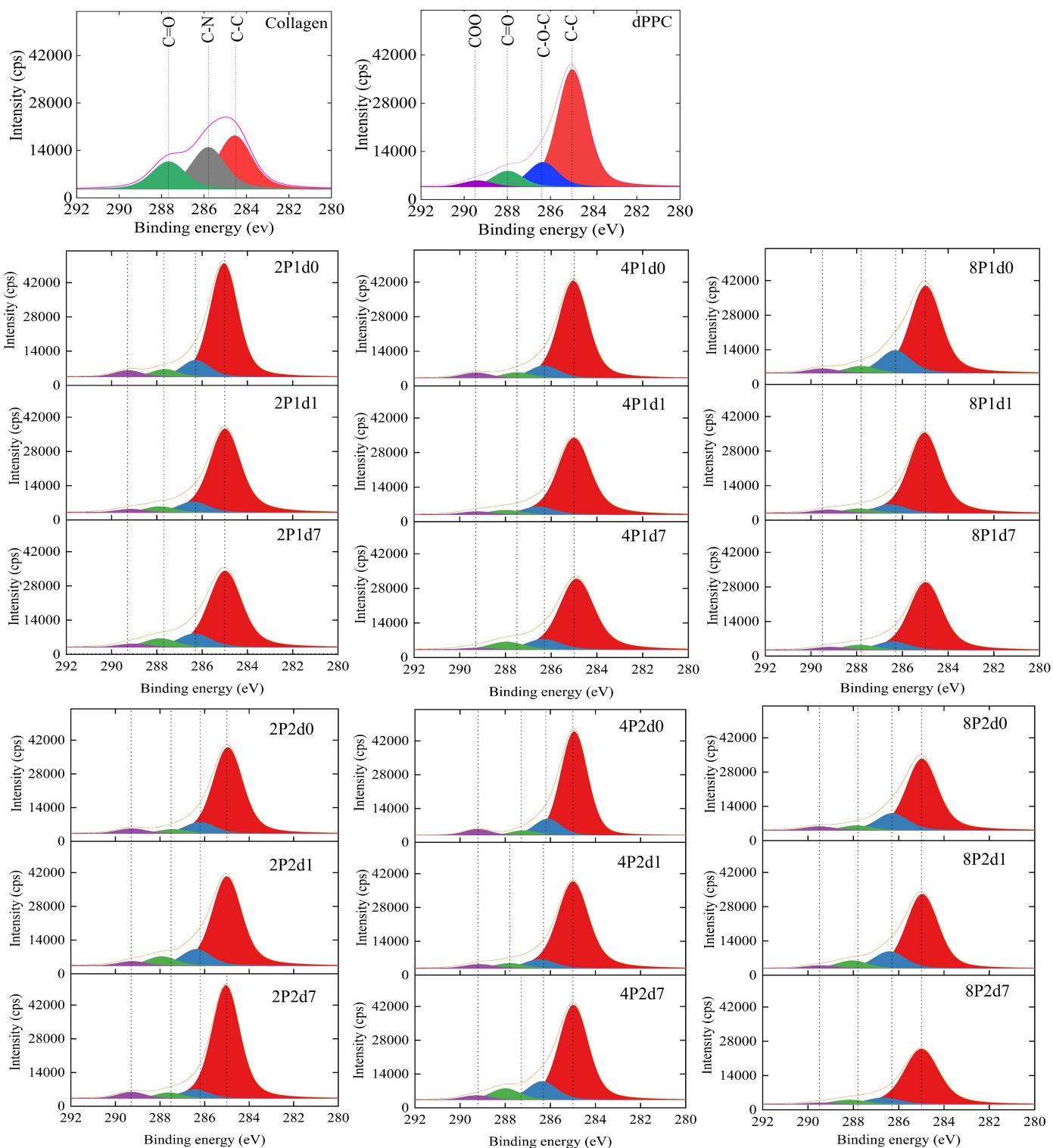


Figure S4. Deconvoluted XPS spectra of non-modified and PEG-modified decellularized porcine pericardium. 2,4,8: PEG branches, 1,2: NHS ratio.