Experimental Approach for Determining Semiconductor/liquid Junction Energetics by Operando Ambient-Pressure X-ray Photoelectron Spectroscopy — Matthias H. Richter1,2,7, Michael F. Lichterman1,2, Shu Hu1,2, Ethan J. Crumlin3, Stephanus Axnanda3, Marco Favaro3,4, Walter Drisdell3,4, Zahid Hussain3, Bruce S. Brunschwig1, Zhi Liu3,5,6, Nathan S. Lewis1,2, and Hans-Joachim Lewerenz1,2 — 1Caltech, Pasadena, USA. — 2JCAP, Pasadena, USA. — 3LBNL, Berkeley, USA. — 4JCAP, Berkeley, USA. — 5Chinese Academy of Sciences, China. — 6ShanghaiTech University, China. — 7BTU C-S, Cottbus, Germany.