Supporting Information

Selective Ion Transporting Polymerized Ionic Liquid Membrane Separator for Enhancing Cycle Stability and Durability in Secondary Zinc Air Battery Systems

Ho Jung Hwang[a]‡, Won Seok Chi[b]‡, Ohchan Kwon[b], Jin Goo Lee[b], Jong Hak Kim[b] and Yong-Gun Shul[a,b]*.*

[a]New energy and battery engineering, Yonsei University, 134 Shinchon-dong, Seodaemoon-ku, Seoul 120-749, Republic of Korea

[b]Department of Chemical and Biomolecular Engineering, Yonsei University,262 Seongsanno, Seodaemun-gu, Seoul 120-749, South Korea

Corresponding Author

E-mail: jonghak@yonsei.ac.kr, shulyg@yonsei.ac.kr

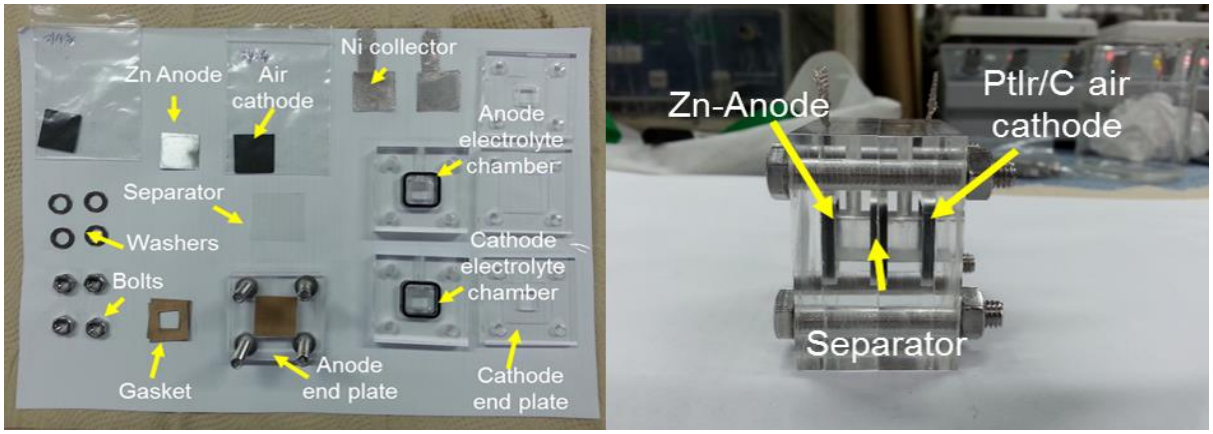

Figure S1. Zinc air battery components

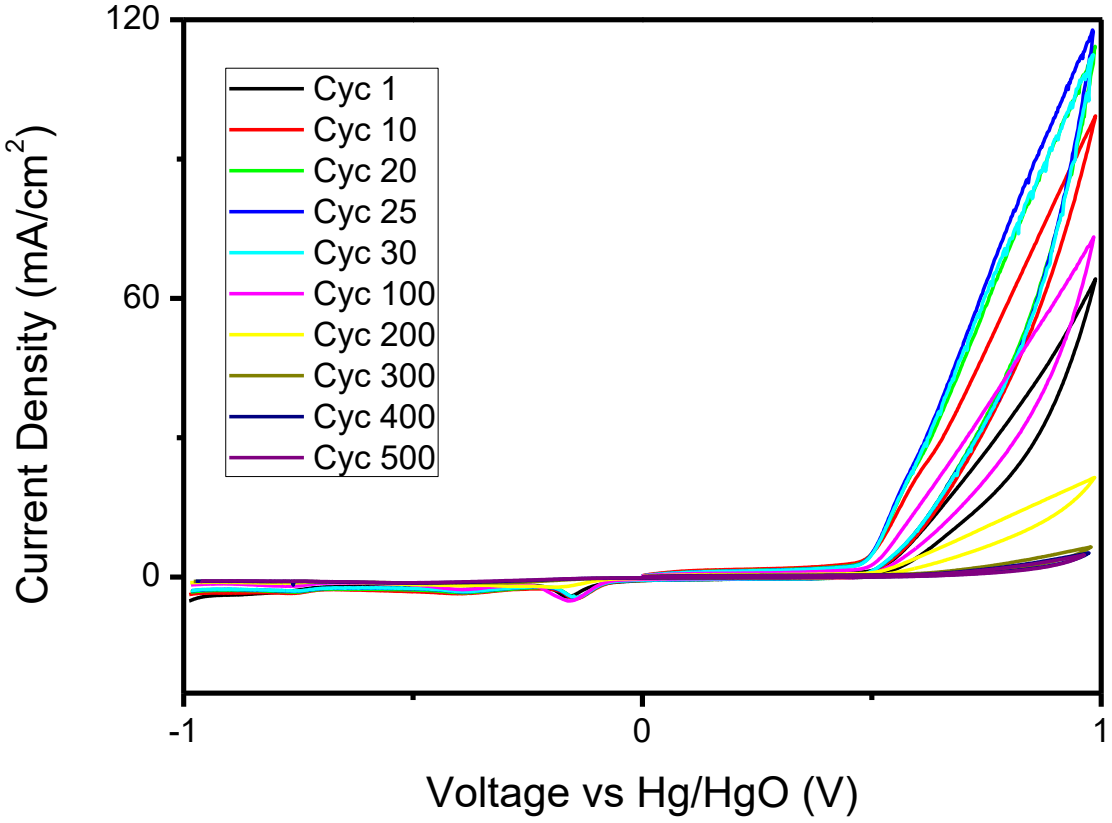

Figure S2. CV profiles of the Pt/Ir catalyst

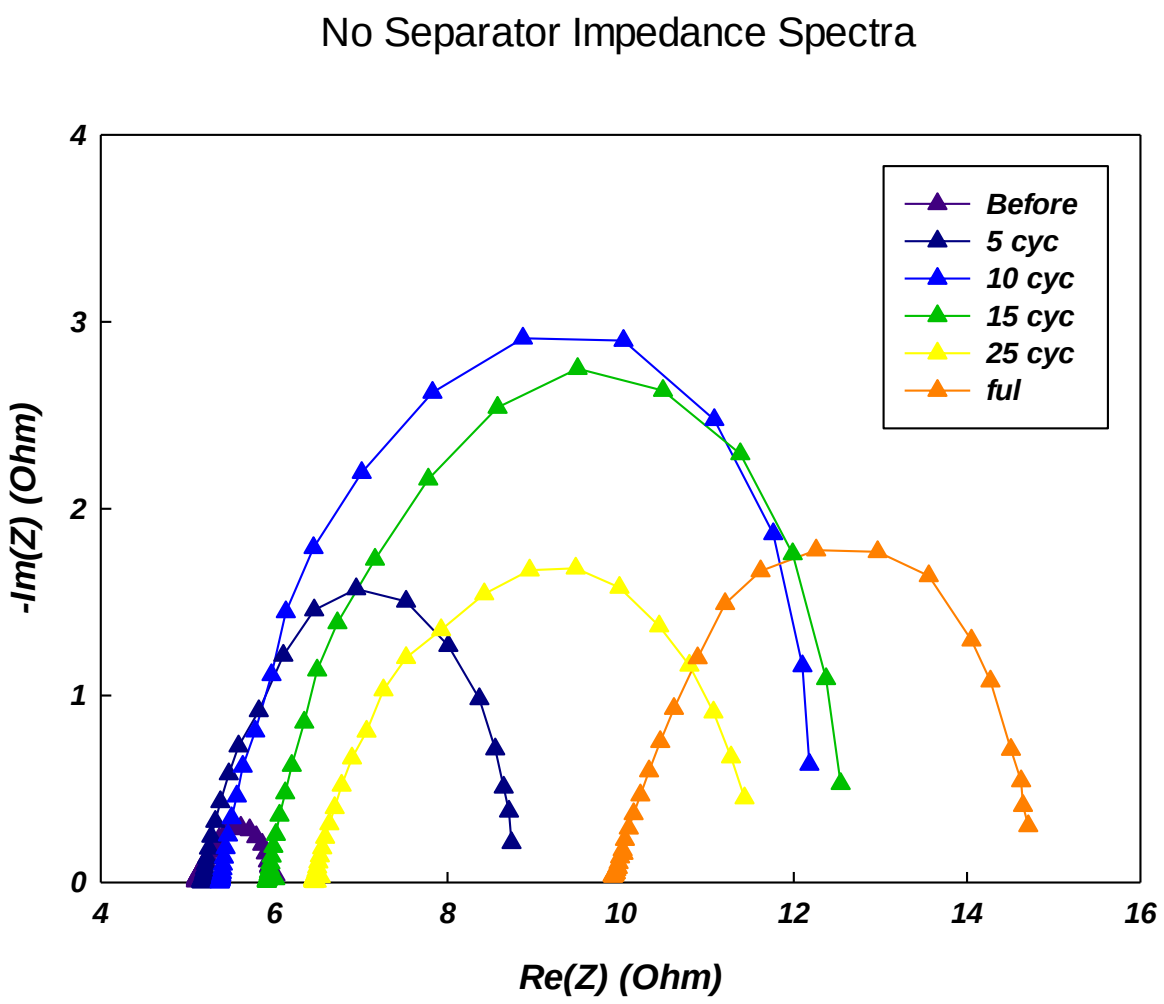

Figure S3. Impedance spectra of a cell without any separator

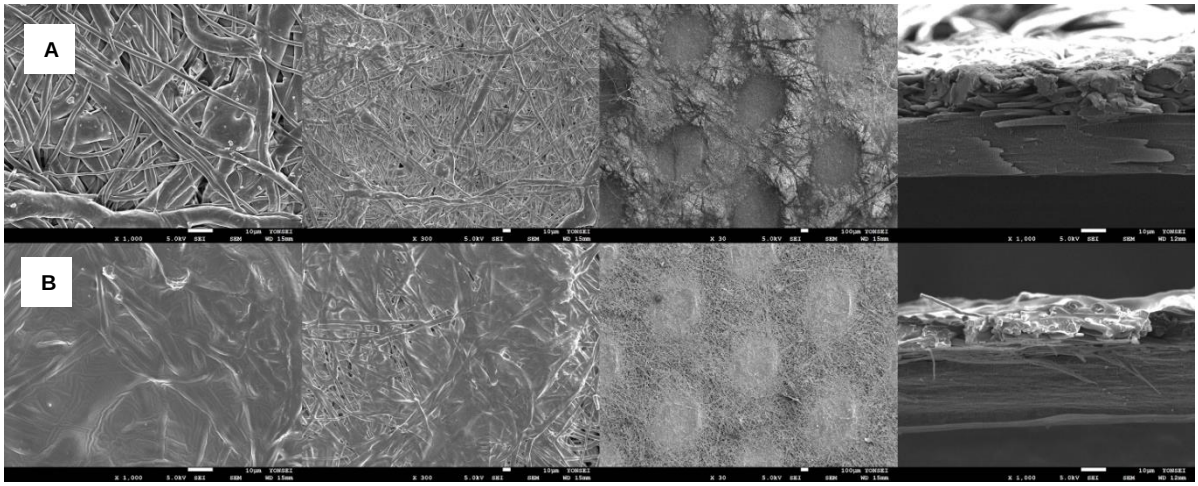

Figure S4. SEM images of PEBIH-PBMA copolymer coated PP separator (A) Unmodified PP separator, (B) PEBIH-PBMA coated PP separator.