

Fig. S6. Variation of the OCV curves of OPV under 1-sun illumination with time at different electrolyte conditions (black: w/o gel electrolyte, red: 0.1g GA, blue: 0.5g GA).

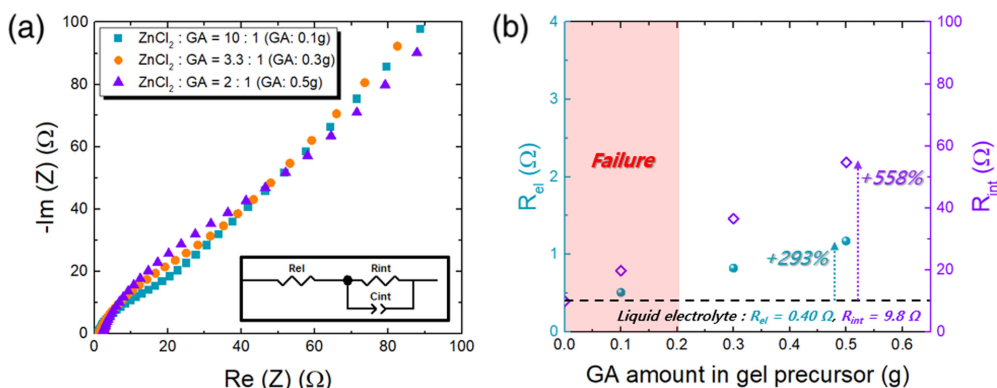


Fig. S7. (a) Nyquist plot of fully discharged SZB (SoC 0) at different ZnCl_2 : GA ratios (or GA amounts) in gel electrolytes together with the equivalent circuit used for interpretation (a-inset). Here, R_{el} is the electrolyte resistance, R_{int} and C_{int} represent the electrode/electrolyte interface resistance and capacitance, respectively. (b) Dependence of R_{el} and R_{int} on GA amount in gel precursor (1 g ZnCl_2 + 7 wt% PVA solution), reproduced from Fig. S7a. For comparison, the corresponding values in liquid electrolyte (1 g ZnCl_2 + 5 g H_2O (1.5 M ZnCl_2 solution)) are provided as a dotted line.

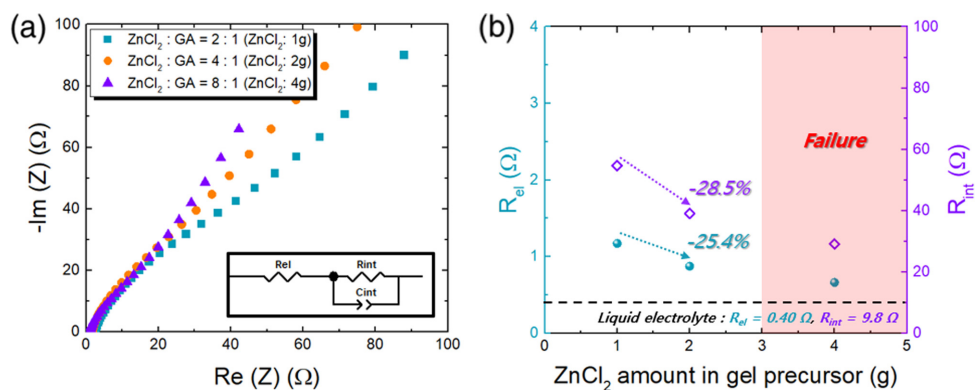


Fig. S8. (a) Nyquist plot of fully discharged SZB (SoC 0) at different ZnCl_2 : GA ratios (or ZnCl_2 amounts) in gel electrolytes together with the equivalent circuit used for interpretation (a-inset). Here, R_{el} is the electrolyte resistance, R_{int} and C_{int} represent the electrode/electrolyte interface resistance and capacitance, respectively. (b) Dependence of R_{el} and R_{int} on GA amount in gel precursor (0.5 g GA + 1 g ZnCl_2 + 7 wt% PVA solution), reproduced from Fig. S8a. For comparison, the corresponding values for a liquid electrolyte (1 g ZnCl_2 + 5 g H_2O (1.5 M ZnCl_2 solution)) are provided as a dotted line.