Supplementary Data

Transport Properties of Film and Bulk $Sr_{0.98}Zr_{0.95}Y_{0.05}O_{3-\delta}$ membranes

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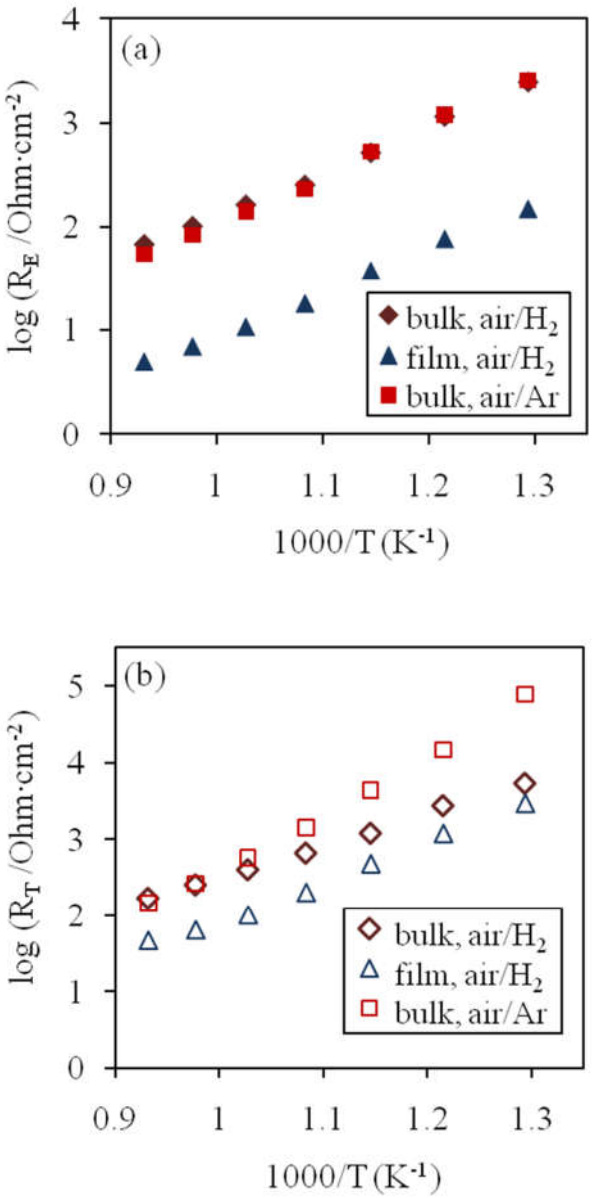

Figure S1. The area-specific values of R_E (a) and R_T (b) as functions of inverse temperature for the gas concentration cells air/H_2 and air/Ar with the bulk and film SZY membranes.

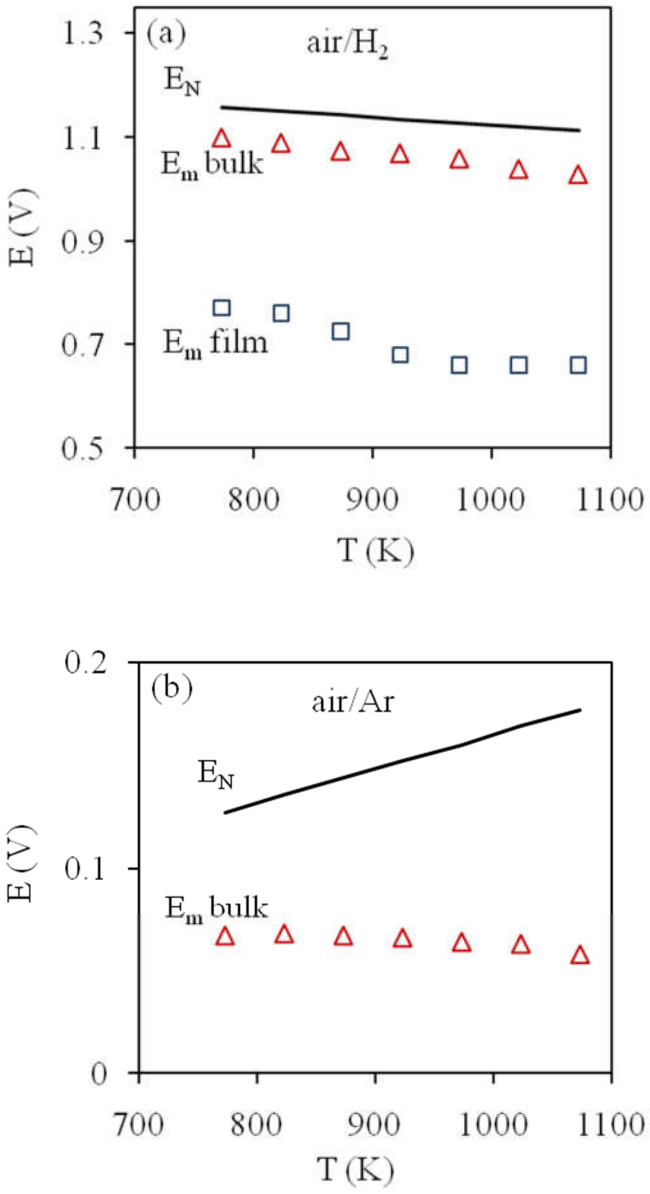

Figure S2. Temperature dependences of E_m and E_N for the gas concentration cells: (a) air/H_2, (b) air/Ar.

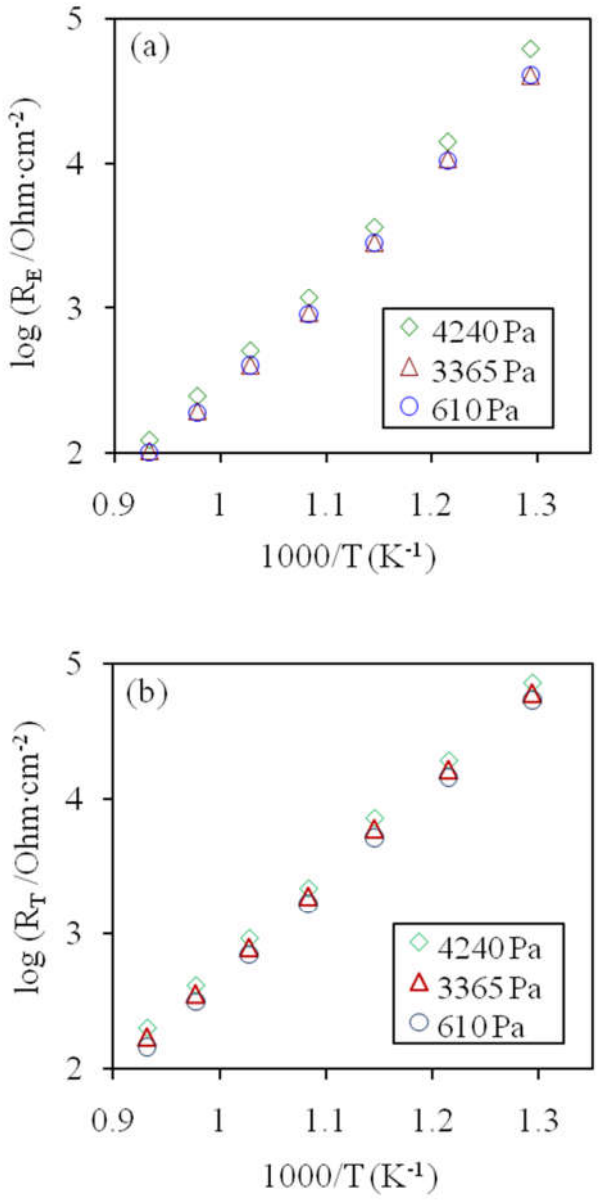

Figure S3. The area-specific values of R_E (a) and R_T (b) as functions of inverse temperature for the gas concentration cells $pH_2O^{/}$, Pt/SZY/Pt, $pH_2O^{//}$ in air at $pH_2O^{/}$ = 40 Pa and $pH_2O^{//}$ = 4240, 3365 and 610 Pa.

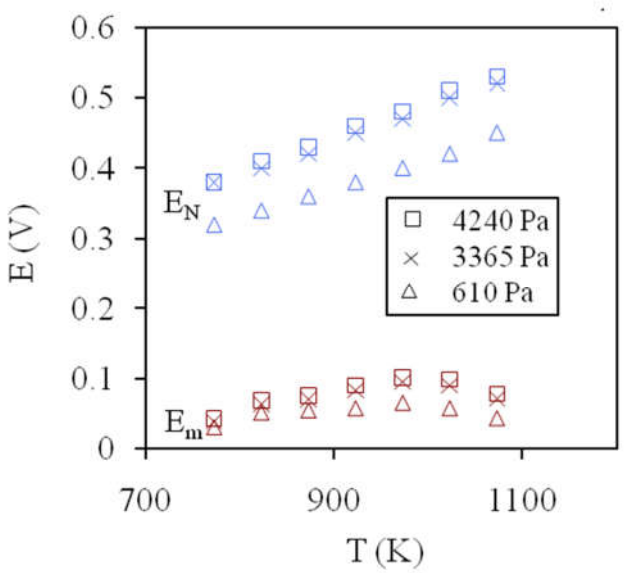

Figure S4. Temperature dependences of E_N and E_m for the gas concentration cell $pH_2O^{/}$, Pt/SZY/Pt, $pH_2O^{//}$ in air at $pH_2O^{/}$ = 40 Pa and $pH_2O^{//}$ = 4240, 3365 and 610 Pa.