EIS fitting parameters using the equivalent circuit presented in the manuscript with reliabilities **χ2** values.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Conc**  (M) | **R1**  (Ohm cm-2) | **Y2**  F cm-2 s(a-1) | **α2** | **R2**  (Ohm cm-2) | **Y3**  F cm-2 s(a-1) | **α3** | **R3**  (Ohm cm-2) | **χ2** |
| 0 | 1.87 | 0.011 | 0.56 | 6.4 | 1.83E-3 | 1 | 127 | 201 |
| 0.01 | 1.25 | 0.11 | 0.5 | 0.64 | 0.76 | 0.567 | 9.99 | 0.12 |
| 0.1 | 1.9 | 0.64 | 1 | 11.02 | 0.18 | 0.41 | 2.35 | 0.016 |
| 1 | 2.53 | 0.0113 | 0.60 | 0.37 | 1.91 | 0.45 | 3.86 | 0.28 |