

Supplementary Material for:
Electrical and mechanical properties of ZrO₂-Y₂O₃-Al₂O₃
composite solid electrolytes

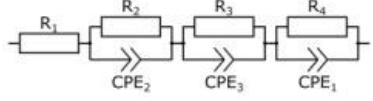
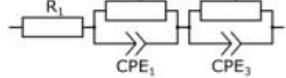
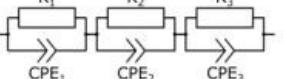
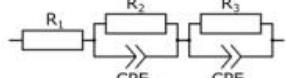
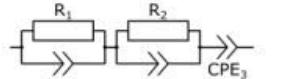
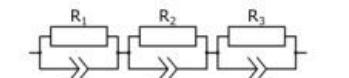
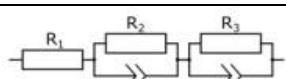
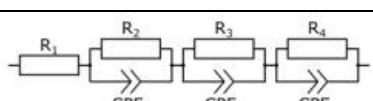
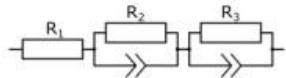
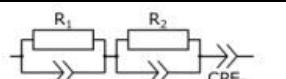
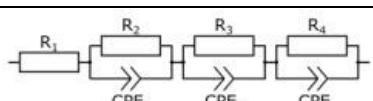
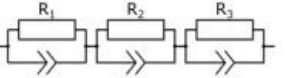
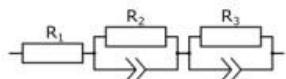
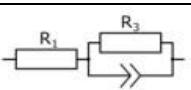
M. Lubszczyk, J. Wyrwa, K. Wojteczko, J. Pleśniak, M.M. Bućko, M. Rękas, T. Brylewski*

AGH University of Science and Technology, Faculty of Materials Science and Ceramics,
al. Mickiewicza 30, 30-059 Kraków, Poland

*Corresponding author: brylew@agh.edu.pl (T. Brylewski)

Table SI. Equivalent circuits applied for different samples and temperatures selected for EIS measurements.

| Sample | Measurement temperature [K] | Equivalent circuit |
|---|-------------------------------|--------------------|
| 3Y-TZP | 573, 673, 723 | |
| | 773, 823, 873, 923, 973 | |
| | 1023 | |
| 3Y-TZP/0.5 mol% of Al ₂ O ₃ | 573, 673, 723 | |
| | 773, 823, 873, 923, 973, 1023 | |

| | | |
|---|-----------------------------------|---|
| 3Y-TZP/1.0 mol% of Al ₂ O ₃ | 573, 673, 723 |  |
| | b773, 823, 873, 923, 973, 1023 |  |
| 8-YSZ | 573, 673 |  |
| | 773, 823, 873, 923, 973, 1023 |  |
| 8-YSZ/0.5 mol% of Al ₂ O ₃ | 573 |  |
| | 673, 723 |  |
| | 773 |  |
| | 873, 923 |  |
| | 973, 1023 |  |
| 8-YSZ/1.0 mol% of Al ₂ O ₃ | 573 |  |
| | 673 |  |
| | 723 |  |
| | 773, 823, 873, 923 |  |
| | 973 |  |