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## ABBREVIATIONS AND SYMBOLS

<b>PEMFC</b>	Proton exchange membrane fuel cells
<b>GDLs</b>	Gas diffusion layers
<b>CLs</b>	Catalyst layers
<b>MEA</b>	Membrane-electrode assembly
<b>O<sub>2</sub></b>	Oxygen gas
<b>H<sub>2</sub></b>	Hydrogen gas
<b>SO<sub>3</sub><sup>-</sup></b>	Sulfonate group
<b>SO<sub>3</sub><sup>-</sup>H</b>	Sulfonic group
<b>H<sub>2</sub>O<sub>2</sub></b>	Hydrogen peroxide
<b>H<sub>2</sub>O</b>	Water molecule
<b>Ar<sup>+</sup></b>	Argon ion
<b>Pt</b>	Platinum
<b>Fe</b>	Iron atom
<b>ORR</b>	Oxygen reduction reaction
<b>Fe-N<sub>x</sub>/C</b>	Metal pyridine deposited Fe which has nitrogen atoms as the ligand
<b>Fe-N<sub>2</sub>/C</b>	Metal pyridine deposited Fe which has nitrogen atoms as the ligand and coordination number equal to 2
<b>Fe-N<sub>4</sub>/C</b>	Metal pyridine deposited Fe which has nitrogen atoms as the ligand and coordination number equal to 4
<b>Im</b>	Imidazole
<b>ImH<sup>+</sup></b>	Imidazolium