

# Abbreviations and Acronyms

<b>APT</b>	Atom probe tomography
<b>CTGA</b>	Continuous thermogravimetric analysis
<b>CVD</b>	Chemical vapour deposition
<b>EBS</b>	Electron back scattered diffraction
<b>EDAX</b>	Energy dispersive analysis of X-rays
<b>EELS</b>	Electron energy loss spectroscopy
<b>EPMA</b>	Electron probe microanalysis
<b>FIB</b>	Focused ion beam
<b>IGCC</b>	Integrated gasification combined cycle
<b>ppm</b>	Parts per million (unit of relative concentration)
<b>ppma</b>	Parts per million by atoms
<b>ppmm</b>	Parts per million by mass
<b>PVD</b>	Physical vapour deposition
<b>SAD</b>	Selected area diffraction
<b>SCC</b>	Supercritical CO <sub>2</sub>
<b>SEM</b>	Secondary electron microscope
<b>SIMS</b>	Secondary ion mass spectrometry
<b>TBC</b>	Thermal barrier coating
<b>TEM</b>	Transmission electron microscope
<b>TGA</b>	Thermogravimetric analysis
<b>TGO</b>	Thermally grown oxide
<b>XPS</b>	X-ray photoelectron spectroscopy
<b>XRD</b>	X-ray diffraction
<b>YSZ</b>	Yttria-stabilized zirconia