

List of Tables

Table 2.1	Composition analysis of the starting material.....	28
Table 2.2	The calculated results of the hexagonal Ti_2ZrO structure factor.....	29
Table 4.1	Microstructural features and formation mechanisms of various phases at the interface of Ti and ZrO_2 at $1550^{\circ}C$	76
Table 5.1	Zirconia and intergranular α -Zr in the reaction layer “VI”.....	107
Table 5.2	Reaction layers formed in the interface of Ti/ZrO_2 at various temperatures.....	107

