

Figure 6 Lattice strain and residual stress analysis of the ODS FeNiCrY2O3 cast alloys as a function of Y2O3 content. The lattice strain and residual stress are calculated from the peak broadening of the patterns using the Williamson-Hall method. (a) Average lattice strains along the major crystallographic directions (*a*-axis). (b) Residual stresses along the major crystallographic directions (*a*-axis). (c) Equilibrium residual stress-strain curve of the alloys.