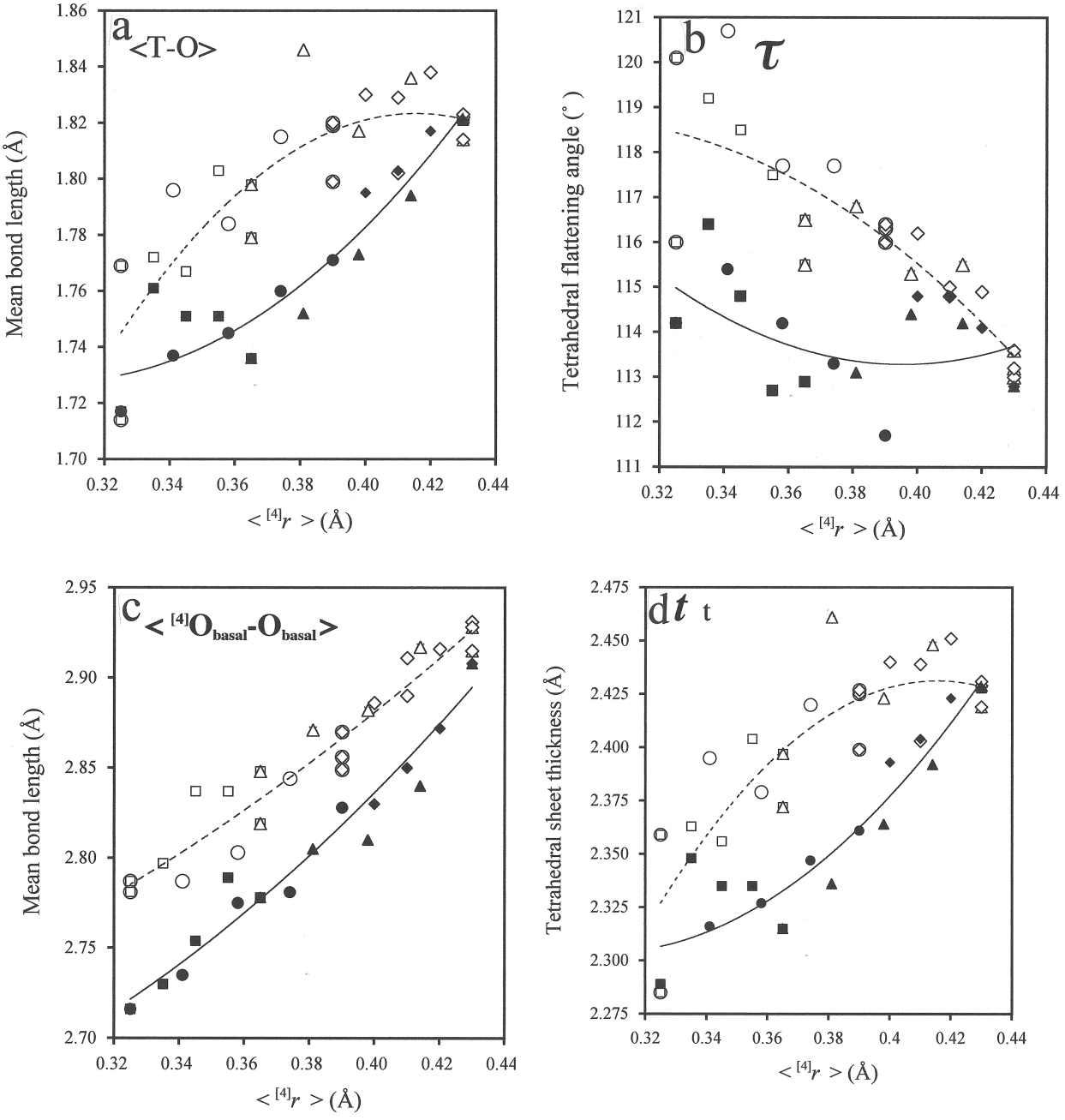


FIGURE 4. Variation in tetrahedron parameters as a function of the mean ionic radius of the tetrahedrally coordinated cations. (**a**) <T-O> = mean tetrahedron bond-length. (**b**)τ = tetrahedron flattening angle. (**c**) $<^{[4]}O_{basal}\text{-}O_{basal}>$ = mean separation of basal oxygens of the tetrahedron. (**d**) t_t = tetrahedron sheet thickness. Legend as in Figure 3. Error bars as given in the text.

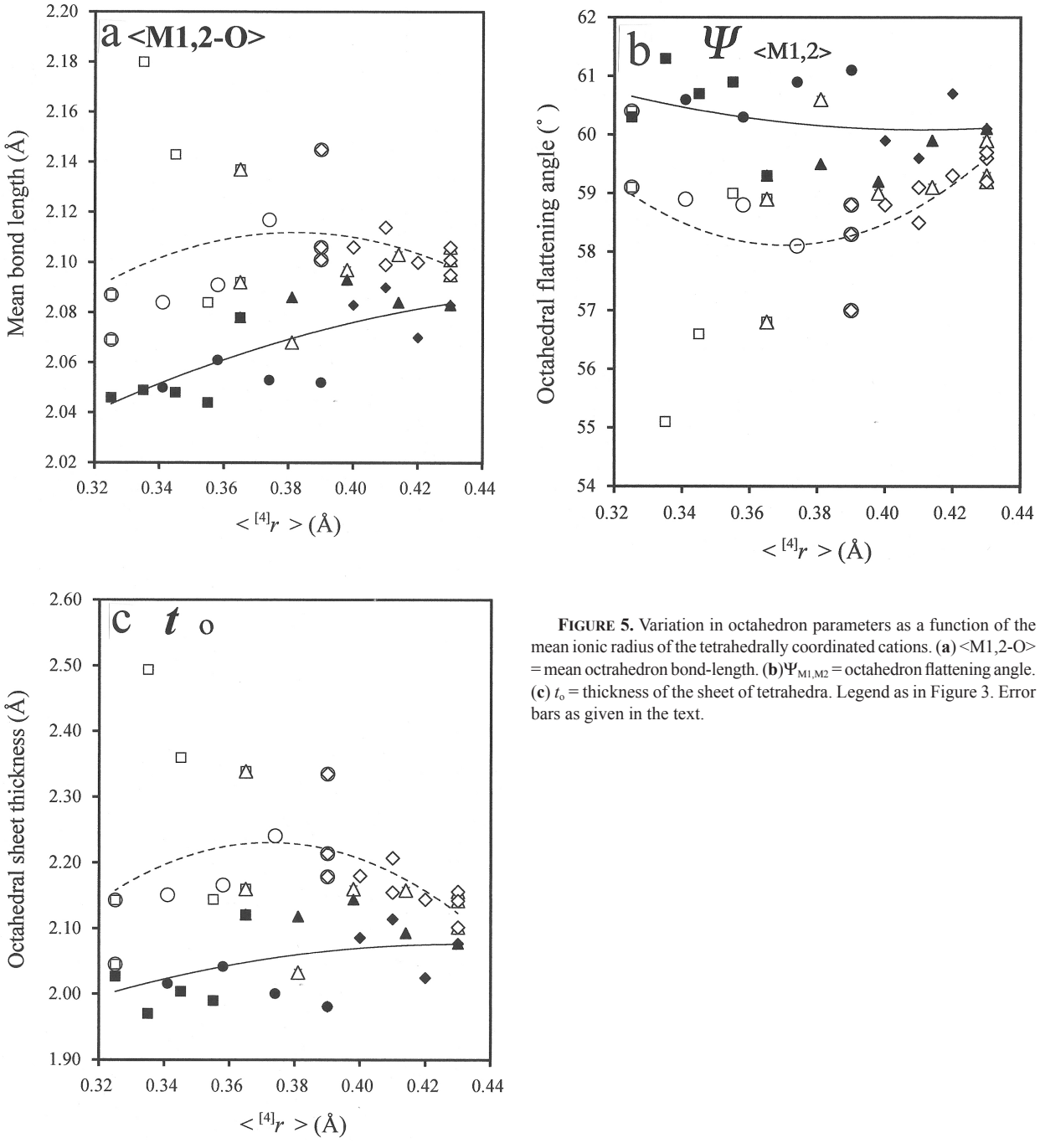
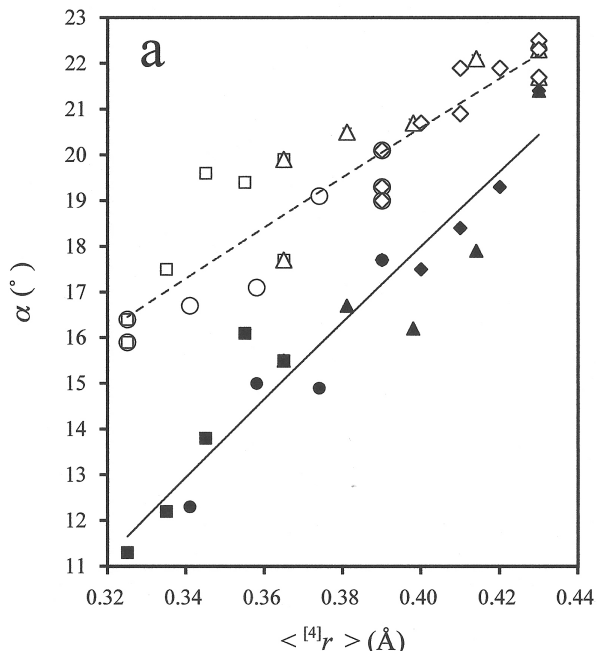
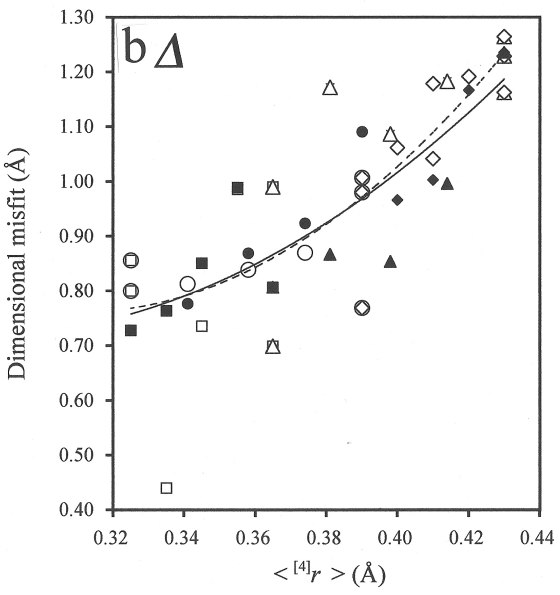


FIGURE 5. Variation in octahedron parameters as a function of the mean ionic radius of the tetrahedrally coordinated cations. (**a**) <M1,2-O> = mean octrahedron bond-length. (**b**) $\Psi_{M1,M2}$ = octahedron flattening angle. (**c**) t_o = thickness of the sheet of tetrahedra. Legend as in Figure 3. Error bars as given in the text.





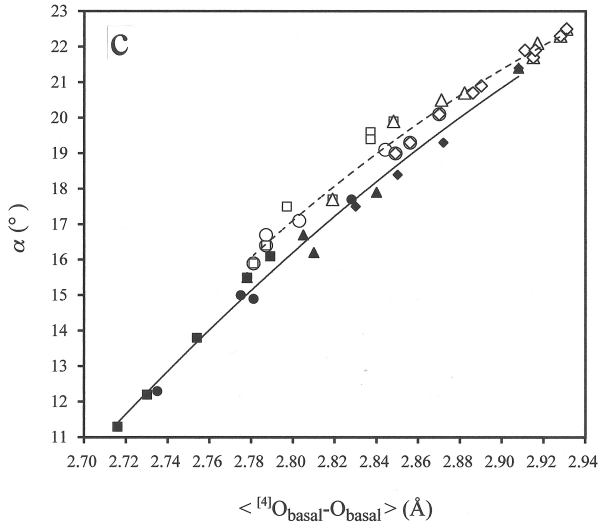


FIGURE 7. Variation in (**a**) the rotation angles of the tetrahedron, and (**b**) the dimensional misfit, both as a function of the mean ionic radius of the tetrahedrally coordinated cations. (**c**) Variation in the rotation angles of the tetrahedron as a function of the mean separation of basal oxygens of the tetrahedron. α = tetrahedron rotation angle. Δ = dimensional misfit. $<^{[4]}O_{basal}\text{-}O_{basal}>$ = mean separation of tetrahedron basal oxygens. Legend as in Figure 3. Error bars as given in the text.