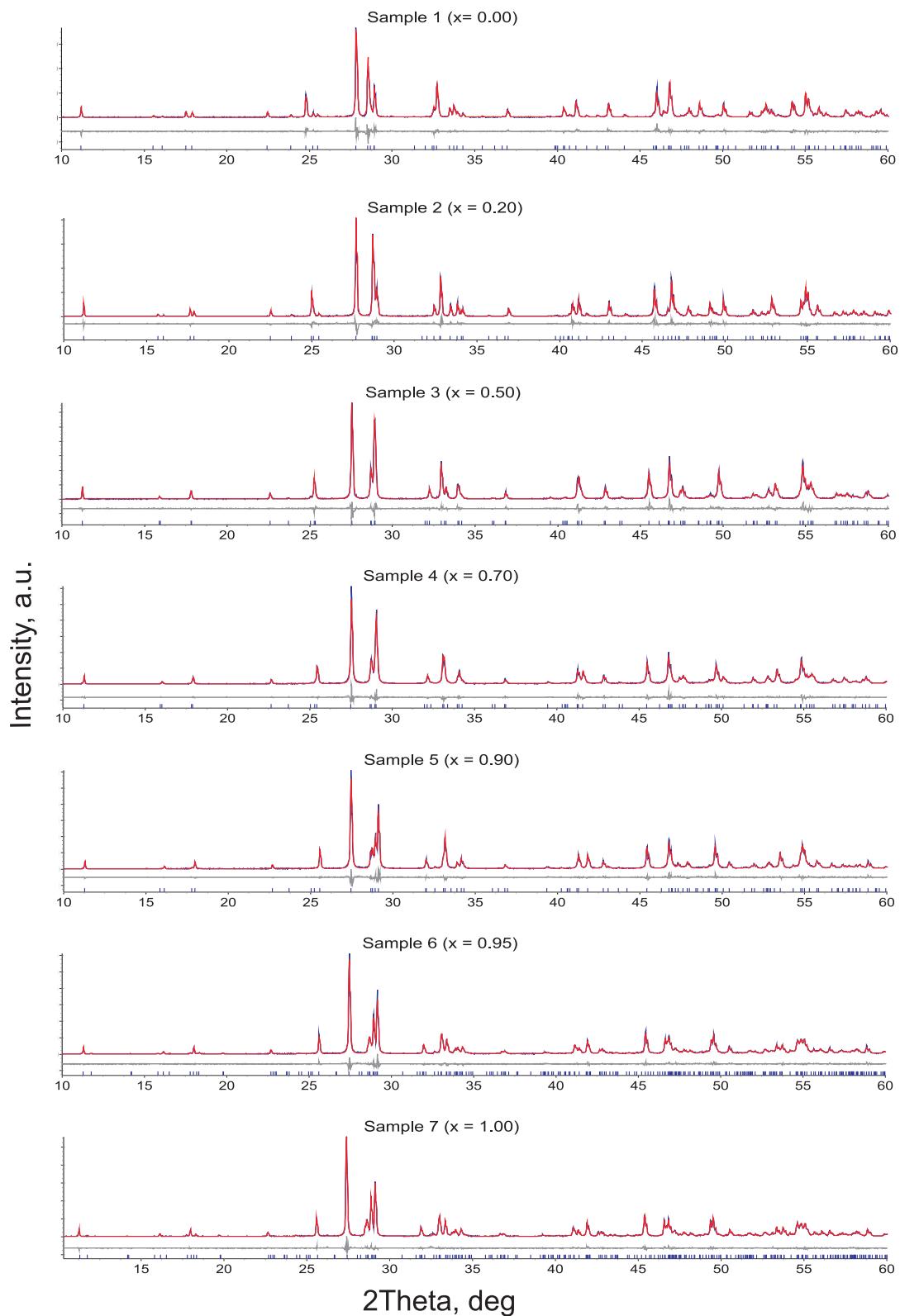


**Figure 3a** Experimental (blue), calculated (red) and difference profiles of samples 1-7 in the range between 10-60° 2θ. Lower vertical bars represent reflection positions.



**Table 7** Bond valence sums for orthorhombic structures transformed and refined in monoclinic symmetry.

	La1a	La1b	La2a	La2b	Ti1a	Ti1b	Ga1a	Ga1b
Sample2 <sup>a</sup>	2.825	3.139	2.920	2.939	4.572	5.107	3.633	4.058
Sample2 <sup>b</sup>	2.788	3.162	2.975	2.904	4.390	5.142	3.489	4.087
Sample2 <sup>c</sup>	2.788	3.162	2.975	2.904	4.390	5.142	3.489	4.087
Sample3 <sup>a</sup>	2.368	3.157	2.931	3.151	4.747	3.572	3.772	2.839
Sample3 <sup>b</sup>	2.372	3.151	2.933	3.151	4.805	3.474	3.819	2.761
Sample3 <sup>c</sup>	2.368	3.157	2.931	3.151	4.747	3.572	3.772	2.839
Sample4 <sup>a</sup>	2.593	3.398	2.670	2.935	5.640	2.791	4.483	2.218
Sample4 <sup>b</sup>	2.241	3.709	2.736	2.876	5.354	2.588	4.255	2.057
Sample4 <sup>c</sup>	2.388	3.510	2.717	2.904	5.620	2.420	4.466	1.923
Sample5 <sup>a</sup>	3.160	2.490	2.821	2.935	3.440	4.137	2.653	3.288
Sample5 <sup>b</sup>	3.081	2.628	2.910	2.823	3.480	4.234	2.766	3.365
Sample5 <sup>c</sup>	3.218	2.437	2.773	3.021	3.387	3.674	2.692	2.920

<sup>a</sup> both O3a and O3v sites are occupied equally

<sup>b</sup> O3a is fully occupied and O3v only partially

<sup>c</sup> refined population on O3a and O3v sites. For more detailed explanation see text.