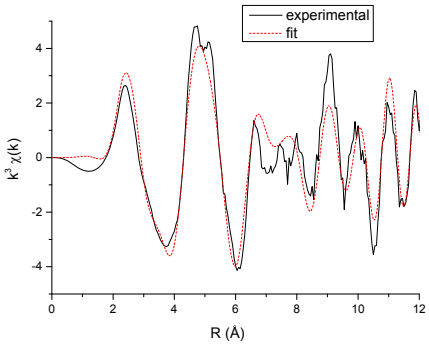
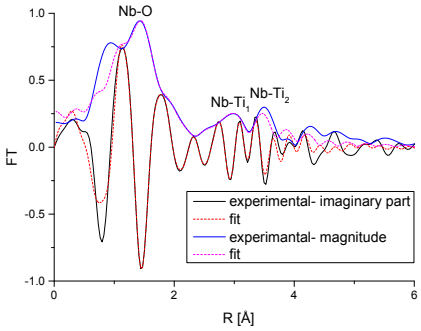
Electronic Supplementary Material (ESI) for Journal of Materials Chemistry A.



a)



b)

Figure 1. Nb K-edge EXAFS of $Ti_{0.77}Nb_{0.23}O_2$ thin film a) plot showing the $k^3\chi(k)$ b) plot showing the magnitude and imaginary part of the Fourier transform of the Nb K-edge EXAFS data of the $Ti_{0.77}Nb_{0.23}O_2$ thin film.

Table 1. Results of Nb *K*-edge EXAFS analysis. R-factor for $Ti_{0.77}Nb_{0.23}O_2$ = 0.0069.

Sample	Nb O			Nb Ti_1			Nb Ti_2		
	R [Å]	N	σ^2 [Å]	R [Å]	N	σ^2 [Å]	R [Å]	N	σ^2 [Å]
$Ti_{0.77}Nb_{0.23}O_2$	1.97	2	0.01	3.10	4	0.01	3.77	4	0.008