

Accepted Manuscript

High-Q microwave dielectric properties in the $\text{Na}_{0.5}\text{Sm}_{0.5}\text{TiO}_3 + \text{Cr}_2\text{O}_3$ ceramics by one synthetic process

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PII: S0925-8388(17)30234-7

DOI: [10.1016/j.jallcom.2017.01.200](https://doi.org/10.1016/j.jallcom.2017.01.200)

Reference: JALCOM 40567

To appear in: *Journal of Alloys and Compounds*

Received Date: 3 October 2016

Revised Date: 16 January 2017

Accepted Date: 19 January 2017

Please cite this article as: Z.-x. Fang, B. Tang, E. Li, S.-r. Zhang, High-Q microwave dielectric properties in the $\text{Na}_{0.5}\text{Sm}_{0.5}\text{TiO}_3 + \text{Cr}_2\text{O}_3$ ceramics by one synthetic process, *Journal of Alloys and Compounds* (2017), doi: 10.1016/j.jallcom.2017.01.200.

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Graphical Abstract

The experimental XPS results showed that Cr^{3+} substitution restrained the formation of Ti^{3+} ions in the $\text{Na}_{0.5}\text{Sm}_{0.5}\text{TiO}_3 + \text{Cr}_2\text{O}_3$ ceramics by one synthetic process

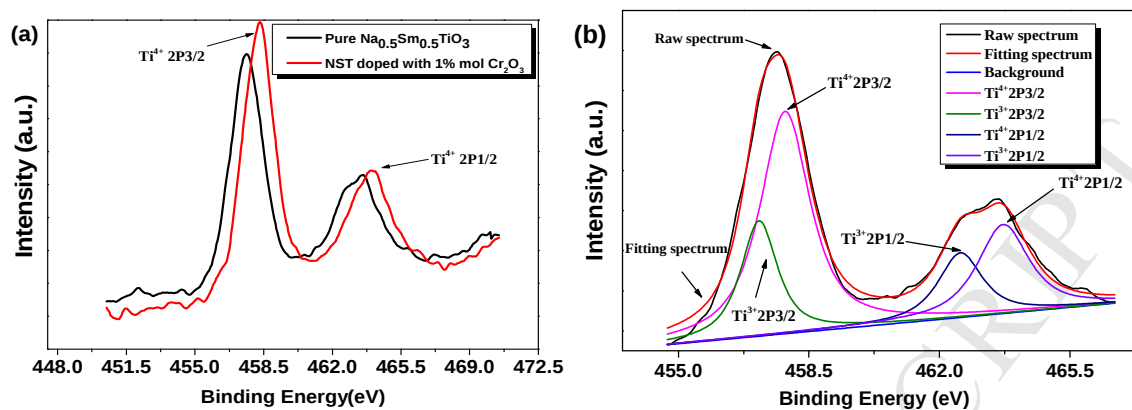


Fig. 6. (a) The experimental spectrum of Ti 2p for pure $\text{Na}_{0.5}\text{Sm}_{0.5}\text{TiO}_3$ and NST ceramics doped with 1% mol Cr_2O_3 , and (b) the experimental and deconvoluted Ti 2p XPS spectrum for pure $\text{Na}_{0.5}\text{Sm}_{0.5}\text{TiO}_3$ ceramics sintered at 1450°C for 2 h.

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