

## عنوان مقاله:

The Effect of Cation Substitution on High Frequency Dielectric Properties of M-type Barium Hexaferrite

## محل انتشار:

چهارمین کنگره بین المللی پوشش های حمل و نقل (سال: 1393)

تعداد صفحات اصل مقاله: 5

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#### خلاصه مقاله:

M-type Ce-Co substituted barium hexaferrite nanoparticles Ba1-xCexFe12-xCoxO19 (x=0, 0.1, 0.2) were synthesized by sol-gel auto-combustion route. The ferrites were investigated by using X-ray diffraction (XRD) and performing network analyzer (PNA). In accordance with diffraction patterns, no extra peak was observed for the pure sample. The network analyzer results showed that the dielectric constant and dielectric loss decreased with increasing Ce-Co substitution. It proposes that the synthesized nanoparticles are suitable for use in high frequencies and radar .absorbing coatings

## کلمات کلیدی:

Barium hexaferrite, dielectric constant, dielectric loss, absorbing coating

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