

#### عنوان مقاله:

Preparation and characterization of Ag/Zr0.9Ni0.1Oy Nanocomposites as Metamaterials

### محل انتشار:

سومین همایش ملی تکنولوژی های نوین در شیمی،پتروشیمی و نانو ایران (سال: 1395)

تعداد صفحات اصل مقاله: 10

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#### خلاصه مقاله:

The paper focuses on the electrical, magnetical and morphology characterization of Ag/Zr0.9Ni0.1Oy (AZNx) nanostructures with different atomic ratios x (where x is 0, 5, and 25%). The structure and morphology properties of the AZNx nanostructures were evaluated by x-ray diffraction (XRD), scanning electron microscopy (SEM) techniques. Here, a negative permittivity behavior of AZN25% is found. Furthermore, the experimental data of the plasma-like negative permittivity are fitted well by a lossy Drude model, suggesting the plasma frequency of 6.78 GHz (x =25%). The complex permeability of AZN25% presents negative susceptibility (e'<1). These results have important implications for the realization of double negative properties in single-phase LSMO as a promising candidate for the **DNMs** 

# كلمات كليدى:

SNG, Tunable metamaterials, Ag/Zr0.9Ni0.1Oy nanostructures

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