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عنوان مقاله:

Synthesis and mechanical properties of BirOr-AlFBirO9 nanopowders

محل انتشار:

فصلنامه كامپوزیت ها و تركیبات, دوره 2, شماره 5 (سال: 1399)

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خلاصه مقاله:

As a result of great surface area and a great number of energetic sites, ceramic nanocomposites are being considered as good adsorbents and catalysts. AIYOW nanoparticles are widely used in high-tech applications owing to their excellent properties. Besides, Bi-based oxides have been the center of attention for applications such as remediation of hazardous wastes and wastewater photochemical degradation of organic contaminants and remediation of hazardous wastes. In this research, the synthesis of BirOr-AlrBirO9 nanocomposite and its mechanical properties as a novel composition were investigated. The results showed that the prepared BiYOY-AlFBiYO9 sample exhibited the AIFBiYO9 crystalline peaks. Additionally, the prepared nanocomposite showed no impurities. The mechanical properties of the BiYOT-AIFBiYOT sample were improved in comparison with AIYOT, BiYOT, and BiYOT-AIYOT, which .offer it as a promising alternative to BirOr-AlrOr composite ceramic

کلمات کلیدی: Nanocomposite, Catalyst, AlrOr, BirOr-AlfBirO۹, Novel composition

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