عنوان مقاله:

Solvothermal synthesis of zeolite imidazole framework (ZIF-۶۷) and overall characterization

محل انتشار:

سومین همایش بین المللی تحقیقات در علوم و فناوری نانو (سال: 1402)

تعداد صفحات اصل مقاله: 7

نویسندگان:

Sogand Aghamohammadi - *Department of Chemical Engineering, Faculty of Engineering, Azarbaijan Shahid Madani University, P.O.BOX ۵۳۷۵۱۷۱۳۷۹, Tabriz, Iran,*

Mohsen Mohseni - *Department of Chemical Engineering, Faculty of Engineering, Azarbaijan Shahid Madani University, P.O.BOX ۵۳۷۵۱۷۱۳۷۹, Tabriz, Iran,*

Sajjad Abbasi - *Department of Chemical Engineering, Faculty of Engineering, Azarbaijan Shahid Madani University, P.O.BOX ۵۳۷۵۱۷۱۳۷۹, Tabriz, Iran,*

Sahar Rezaei - *Department of Chemical Engineering, Faculty of Engineering, Azarbaijan Shahid Madani University, P.O.BOX ۵۳۷۵۱۷۱۳۷۹, Tabriz, Iran,*

Alireza Hosseinzadeh - *Department of Chemical Engineering, Faculty of Engineering, Azarbaijan Shahid Madani University, P.O.BOX ۵۳۷۵۱۷۱۳۷۹, Tabriz, Iran,*

Yavuz Aydemir - *Department of Chemical Engineering, Istanbul Technical University, Maslak ۳۴۴۶۹, Istanbul, Turkey*

خلاصه مقاله:

As a new class of metal–organic frameworks (MOFs), zeolitic imidazolate frameworks (ZIFs) that consist of transition-metal cations (M) and imidazole-based ligands (Im) are increasingly investigated. ZIF-۶۷, also known as ۲-methylimidazole cobalt salt, is a zeolitic imidazolate framework that serves as the MOF structure ($C_8H_{10}N_4Co$). They play a significant role in the study of nanomaterials and give a wealth of architectures and exceptional variability thanks to a variety of metal nodes, functional linkers, and enclosed substrates. In this paper complete characterization including XRD, FESEM, EDAX dor mapping, BET-BJH and TGA for ZIF-۶۷ has been carried out which can be taken in to account in various applications.

کلمات کلیدی:

zeolite imidazole framework(ZIF-۶۷), characterization, Solvothermal