

عنوان مقاله:

Application of Synthesized MIL-101(Cr) Molecular Sieve for Formaldehyde Electrooxidation

محل انتشار:

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خلاصه مقاله:

Metal organic frameworks (MOFs) consist of metal cations or metal-based-clusters linked by organic molecules forming a crystalline network, which after removal of guest species may result in three dimensional structures with permanent porosity [1-2]. MOFs are crystalline materials that can be tailored to specific applications through varying the metals, ligands, and linkers making up the MOF and the number of potential MOFs are virtually limitless. they can be synthesized inexpensively, relatively easily, in high purity, and in a highly crystalline form. these materials cover a much wider range of pore sizes than zeolites, even bridging micro and mesoporous materials. The combination of organic and inorganic building blocks offers an almost infinite number of variations, enormous flexibility in pore size, shape, structure and myriad opportunities for functionalization and grafting [3]. The combination of organic and inorganic building blocks offers an almost infinite number of variations, enormous flexibility in pore size, shape, and structure, and myriad opportunities for functionalization and grafting. In this study, MIL-101(Cr) was synthesized and characterized by XRD and SEM. Then, this MOFs was applied for modification of CPE and applied for electrocatalytic oxidation of formaldehyde in the alkaline medium

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