

عنوان مقاله:

Hydrogen production in methanol dehydrogenation to methyl formate process

محل انتشار:

ششمین کنفرانس بین المللی رویکردهای نوین در نگهداشت انرژی (سال: 1395)

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خلاصه مقاله:

Renewable energy is generally defined as energy that is collected from renewable resources such as wind, sunlight, rain, waves, and geothermal heat. Hydrogen is produced using a number of non-renewable and renewable resources such as fossil fuels and biomass. The other feedstock for hydrogen is water in electrolysis process. Microorganisms such as bacteria and algae can produce hydrogen through biological processes. Hydrogen is produced in some processes as a byproduct. In some processes, the produced hydrogen along with other by-products is sent to flare; however, it can be processed as an energy resource. In this paper hydrogen production via methyl formate production process using methanol dehydrogenation is investigated. The simulation results show that separation of produced hydrogen provides a significant energy source for mentioned chemical reaction

کلمات کلیدی:

Hydrogen production, Methanol dehydrogenation, Methyl formate

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