

**عنوان مقاله:**

Hydrogen Production via Methane Steam Reforming Process

**محل انتشار:**

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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 Methane steam reforming process is investigated. The simulation results show that separation of produced hydrogen provides a significant energy source for mentioned chemical reaction.

**کلمات کلیدی:**

Renewable Energy, Hydrogen production, Methane steam reforming

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