

عنوان مقاله:

"Methane Conversion to More Valued Products in a Corona Discharge Reactor. "Energy Evaluation

محل انتشار:

چهاردهمین همایش بین المللی نفت، گاز و پتروشیمی (سال: 1389)

تعداد صفحات اصل مقاله: 10

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خلاصه مقاله:

At ambient pressure and temperature direct conversion of methane to ethylene , acetylene and synthetic gas corona discharge plasma is presented. The process was carried out using a quartz reactor of outer diameter of 9 millimeter and an ac current corona gas discharge of 50-hertz.the rate of methane conversion was as high as 63% with high selectivity to more valued products. the products were mainly C2 hydrocarbons where the share of COx GASES was .minor. the total yield to C2 products was 39% . the energy efficiency was more than 0.22 mmol/kj

کلمات کلیدی:

methane conversion plasma, gas conversion corona discharge , methane gas discharge , methane non-thermal plasma

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