

Mixed gas Diesel Reforming on hard condition

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There are several techniques already available for producing hydrogen from reforming of hydrocarbon fuels such as Steam Reforming and Autothermal Reforming. However, recently, situations arise where these methods are hard to implement, also data for reforming operation on these conditions is insufficient. Therefore we set the composition of the feedstock gas to a mixture of various gases. Furthermore while the temperature of common reforming processes are over 800°C, we set out test conditions to reform under 600C in order to facilitate the commercialization of our technique. We observed fuel reforming operated in these conditions using Pt-GDC as a catalyst.