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Methane combustion in MILD oxyfuel regime: Influences of dilution atmosphere in co-flow configuration

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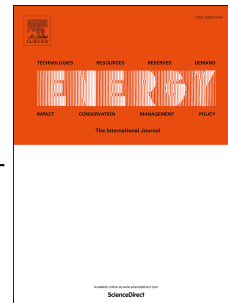
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2 **tion Atmosphere in Co-flow Configuration**

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14

15 **Abstract:** MILD (moderate or intense low oxygen dilution) oxyfuel com-  
16 bustion is a recently proposed clean combustion mode which can remedy  
17 the shortcomings of the standard oxyfuel combustion technology. Nowadays  
18 most available studies on MILD oxyfuel combustion focus on how to realize  
19 this new combustion regime in  $O_2/CO_2$  atmosphere. The open research on  
20 methane MILD oxyfuel combustion in  $O_2/H_2O$  atmosphere is quite sparse. In  
21 the present work, we carry out a comprehensive comparison study on methane  
22 MILD oxyfuel combustion in different dilution atmosphere for the first time.

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