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Catalytic Methane Combustion in Microreactors

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Li He

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List of publications

- (1) L. He, Y. Fan, J. Bellettre, J. Yue, L. Luo. A review on methane catalytic combustion at low temperatures: catalysts, reaction conditions and reactor designs. *Renewable & Sustainable Energy Reviews*. 2019, 109589.
- (2) L. He, Y. Fan, L. Luo, J. Bellettre, J. Yue. Preparation of Pt/ γ -Al₂O₃ catalyst coating in microreactors for catalytic methane combustion. *Chemical Engineering Journal*. 2020 (380) 122424.
- (3) L. He, D. Vreugdenhil, Y. Fan, J. Bellettre, L. Luo, J. Yue. Capillary microreactors with single- and multi-layer Pt/ γ -Al₂O₃ catalyst coatings for catalytic methane combustion. (to be submitted to *Chemical Engineering Journal*).
- (4) L. He, Y. Fan, J. Bellettre, Yue J., L. Luo. Catalytic methane combustion in plate-type microreactors with different channel configurations: an experimental study. (to be submitted to *Chemical Engineering Science*)

List of attended conferences

(1) Li He, Yilin Fan, Lingai Luo, Hero J. Heeres, Jun Yue, Jérôme Bellettre. Catalytic methane combustion in a multi-channel micro reactor over washcoated Pt/ γ -Al₂O₃ catalyst. 14th GLS International Congress, Guilin, China, June 2019.

(2) Li He, Yilin Fan, Lingai Luo, Jun Yue, and Jérôme Bellettre. Catalytic methane combustion in a multi-channel microreactor. 27th Congr s Fran ais de Thermique, Nantes, France, June 2019.

(3) Li He, Yilin Fan, Lingai Luo, Jérôme Bellettre, Hero J. Heeres, Jun Yue. A study of γ -Al₂O₃ washcoated on microchannel platelet. CHAINS, Veldhoven, the Netherlands, December 2018.

(4) Li He, Yilin Fan, Lingai Luo, Jérôme Bellettre, Hero J. Heeres, Jun Yue. Catalytic methane combustion over a washcoated Pt/ γ -Al₂O₃ catalyst in a multi-channel microreactor. ENTEG Autumn Meeting, Haren, the Netherlands, November 2018.