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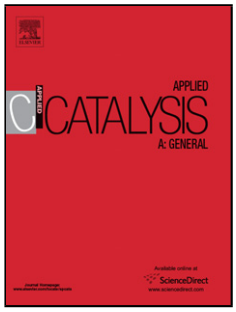

Title: Evaluation of hydrothermal stability of encapsulated $PdPt@SiO_2$ catalyst for lean CH_4 combustion

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PII: S0926-860X(18)30101-7
DOI: https://doi.org/10.1016/j.apcata.2018.02.034
Reference: APCATA 16574

To appear in: *Applied Catalysis A: General*

Received date: 27-12-2017
Revised date: 18-2-2018
Accepted date: 28-2-2018

Please cite this article as: Habibi AH, Hayes RE, Semagina N, Evaluation of hydrothermal stability of encapsulated $PdPt@SiO_2$ catalyst for lean CH_4 combustion, *Applied Catalysis A, General* (2010), https://doi.org/10.1016/j.apcata.2018.02.034

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ACCEPTED MANUSCRIPT

Evaluation of hydrothermal stability of encapsulated PdPt@SiO_2 catalyst for lean CH_4 combustion

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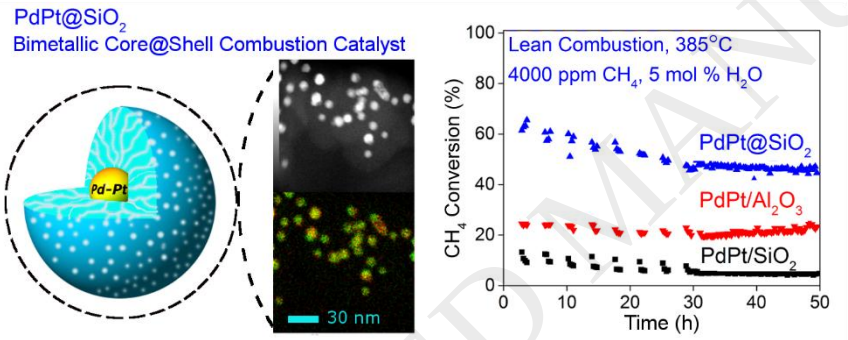
Graphical abstract



Research Highlights:

- PdPt nanoparticles are encapsulated in silica for wet methane combustion catalysis
- The encapsulated catalyst shows higher conversion than impregnated Al_2O_3 and SiO_2
- The shell remains intact but PdPt morphology and dispersion change after ageing

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