

Determination of kinetics and controlling regimes for H<sub>2</sub> on  
monolithic catalyst using high space velocity experiments

Applied Catalysis B: Environmental

102, 484-495

DOI: [10.1016/j.apcatb.2010.12.030](https://doi.org/10.1016/j.apcatb.2010.12.030)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Spatio-temporal features of periodic oxidation of H <sub>2</sub> and CO on Pt/CeO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> . Applied Catalysis A: General, 2011, 397, 35-45.	2.2	13
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6	Prediction of diffusivity and conversion of n-decane and CO in coated Pt/γ-Al <sub>2</sub> O <sub>3</sub> catalyst depending on porous layer morphology. Applied Catalysis B: Environmental, 2014, 150-151, 446-458.	10.8	38
7	Steady-state and dynamic hysteresis effects during lean co-oxidation of CO and C <sub>3</sub> H <sub>6</sub> over Pt/Al <sub>2</sub> O <sub>3</sub> monolithic catalyst. Chemical Engineering Journal, 2015, 281, 322-333.	6.6	46
8	Spatiotemporal behavior of Pt/Rh/CeO <sub>2</sub> /BaO catalyst during lean-rich cycling. Chemical Engineering Journal, 2015, 262, 464-477.	6.6	18
9	Selective oxidation of ammonia to nitrogen on bi-functional Cu-SSZ-13 and Pt/Al <sub>2</sub> O <sub>3</sub> monolith catalyst. Catalysis Today, 2016, 267, 130-144.	2.2	52
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12	Real-time Simulation of Dual-Layer Catalytic Converters Based on the Internal Mass Transfer Coefficient Approach. Topics in Catalysis, 2017, 60, 225-229.	1.3	12
13	CO and H <sub>2</sub> oxidation over Pt/BaSnO <sub>3</sub> catalysts. Reaction Kinetics, Mechanisms and Catalysis, 2018, 123, 659-677.	0.8	4
14	Insights into the effect of catalyst loading on methane steam reforming and controlling regime for metallic catalytic monoliths. International Journal of Hydrogen Energy, 2018, 43, 11778-11792.	3.8	31
15	Study of the catalytic combustion of lean hydrogen-air mixtures in a monolith reactor. International Journal of Hydrogen Energy, 2018, 43, 17520-17530.	3.8	27
16	Robust Co <sub>3</sub> O <sub>4</sub> /γ-Al <sub>2</sub> O <sub>3</sub> cordierite structured catalyst for N <sub>2</sub> O abatement – Validation of the SCS method for active phase synthesis and deposition. Chemical Engineering Journal, 2019, 377, 120088.	6.6	23
17	Hydrothermal aging of Pt/Al <sub>2</sub> O <sub>3</sub> monolith: Washcoat morphology degradation effects studied using ammonia and propylene oxidation. Catalysis Today, 2019, 320, 20-29.	2.2	25
18	Restricting the growth of Pt nanoparticles through confinement in ordered nanoporous structures. Applied Catalysis A: General, 2020, 607, 117858.	2.2	4

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19	Analysis of heat and mass transfer limitations for the combustion of methane emissions on PdO/Co <sub>3</sub> O <sub>4</sub> coated on ceramic open cell foams. Chemical Engineering Journal, 2021, 405, 126970.	6.6	18
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22	Proposal of the reaction environment for effective use of structured catalyst. Journal of Flow Chemistry, 2021, 11, 793-806.	1.2	1
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27	Performance and Controlling Regimes Analysis of Methane Steam Reforming on Ru/β-Al <sub>2</sub> O <sub>3</sub> Cordierite Monoliths. Green Energy and Technology, 2021, , 91-131.	0.4	2
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33	Simulation of dynamic response of mixed-potential hydrogen sensors. International Journal of Hydrogen Energy, 2022, 47, 33891-33902.	3.8	4
34	Numerical study of thermal diffusion in a passive autocatalytic recombiner: Possible effects on catalyst temperature and hydrogen distribution. International Journal of Hydrogen Energy, 2023, 48, 12129-12138.	3.8	4
35	Thermal and photon effects on the reaction of H <sub>2</sub> and O <sub>2</sub> to water over Ag-Pd/TiO <sub>2</sub> . International Journal of Hydrogen Energy, 2022, 47, 39864-39874.	3.8	2
36	Kinetic and Thermodynamic Study of the Wet Desulfurization Reaction of ZnO Sorbents at High Temperatures. Energies, 2023, 16, 792.	1.6	3