

## PUBLICATIONS BY GIANLUCA LANDI (LAST UPDATE: MARCH 2017)

### PUBLICATIONS (ISI JOURNALS):

1. Almerinda Di Benedetto, Gianluca Landi, Luciana Lisi, *CO reactive adsorption at low temperature over CuO/CeO<sub>2</sub> structured catalytic monolith*, International Journal of Hydrogen Energy (2017) in press DOI: [10.1016/j.ijhydene.2017.03.077](https://doi.org/10.1016/j.ijhydene.2017.03.077)
2. Valeria Di Sarli, Gianluca Landi, Luciana Lisi, Almerinda Di Benedetto, *Ceria-coated diesel particulate filters for continuous regeneration*, AiCHE Journal (2017) in press DOI: [10.1002/aic.15688](https://doi.org/10.1002/aic.15688)
3. Gianluca Landi, Valeria Di Sarli, Almerinda Di Benedetto, Francesco Berardini, Mario Mensitieri, *Catalytic Combustion of Waste Streams Coming from the Solvent Recovery Stage of a Packaging Industry*, Journal of Applied Packaging Research 8 (4) Article 3 (2016)
4. Paola Sabrina Barbato, Sara Colussi, Almerinda Di Benedetto, Gianluca Landi, Luciana Lisi, Jordi Llorca, Alessandro Trovarelli, *Origin of High Activity and Selectivity of CuO/CeO<sub>2</sub> Catalysts Prepared by Solution Combustion Synthesis in CO-PROX Reaction*, The Journal of Physical Chemistry C 120 (24) (2016) 13039-13048
5. Gianluca Landi, Almerinda Di Benedetto, Sara Colussi, Paola Sabrina Barbato, Luciana Lisi, *Effect of carbon dioxide and water on the performances of an iron-promoted copper/ceria catalyst for CO preferential oxidation in H<sub>2</sub>-rich streams*, International Journal of Hydrogen Energy 41 (2016) 7332-7341
6. Paola Sabrina Barbato, Almerinda Di Benedetto, Gianluca Landi, Luciana Lisi, *Structuring CuO/CeO<sub>2</sub> catalyst as option to improve performance towards CO-PROX*, Topics in Catalysis 59(15) (2016) 1371-1382
7. Paola Sabrina Barbato, Gianluca Landi, Luciana Lisi, Almerinda Di Benedetto, *CFD Simulations of Copper-Ceria Based Microreactor for COPROX*, International Journal of Chemical Reactor Engineering 14 (6) (2016) 1301-1313
8. Valeria Di Sarli, Gianluca Landi, Luciana Lisi, Anna Saliva, Almerinda Di Benedetto, *Catalytic diesel particulate filters with highly dispersed ceria: Effect of the soot-catalyst contact on the regeneration performance*, Applied Catalysis B: Environmental 197(2016) 116–  
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9. G. Landi, P.S. Barbato, A. Di Benedetto, L. Lisi, *Optimization of the preparation method of CuO/CeO<sub>2</sub> structured catalytic monolith for CO preferential oxidation in H<sub>2</sub>-rich streams*, Applied Catalysis B: Environmental 181 (2016) 727-737
10. P.S. Barbato, S. Colussi, A. Di Benedetto, G. Landi, L. Lisi, J. Llorca, A. Trovarelli, *CO preferential oxidation under H<sub>2</sub>-rich streams on copper oxide supported on Fe promoted CeO<sub>2</sub>*, Applied Catalysis A: General 506 (2015) 268-277
11. P.S. Barbato, A. Di Benedetto, G. Landi, L. Lisi, *CuO/CeO<sub>2</sub> based monoliths for CO preferential oxidation in H<sub>2</sub>-rich streams*, Chemical Engineering Journal 279 (2015) 983-993
12. P.S. Barbato, V. Di Sarli, G. Landi, A. Di Benedetto, *Transient Operation of a Perovskite Partially Coated Monolith at High Pressure*, Chemical Engineering Transactions 43 (2015) 2431–2436.
13. P.S. Barbato, G. Landi, A. Di Benedetto, *High Pressure Catalytic Combustion of Methane Enriched Syngas*, Energy Procedia 66C (2015) 9-12 DOI: 10.1016/j.egypro.2015.02.006. Impact Factor: n.a.
14. V. Di Sarli, P.S. Barbato, A. Di Benedetto, G. Landi, *Start-up behavior of a LaMnO<sub>3</sub> partially coated monolithic combustor at high pressure*, Catalysis Today 242 (2015) 200-210. Impact Factor: 3.309
15. P.S. Barbato, V. Di Sarli, G. Landi, A. Di Benedetto, *High pressure methane catalytic combustion over novel partially coated LaMnO<sub>3</sub>-based monoliths*, Chemical Engineering Journal 259 (2015) 381-390. Impact Factor: 4.058
16. M. Tortorelli, G. Landi, L. Lisi, G. Russo, *Adsorption and co-adsorption of NO and water on LaCu-ZSM5*, Microporous and Mesoporous Materials 200 (2014) 216-224. Impact Factor: 3.209
17. Gianluca Landi, Almerinda Di Benedetto, Paola S. Barbato, Gennaro Russo, Valeria Di Sarli, *Transient behavior of structured LaMnO<sub>3</sub> catalyst during methane combustion at high pressure*, Chemical Engineering Science 116 (2014) 350–358 DOI: 10.1016/j.ces.2014.04.029. Impact Factor: 2.613
18. A. Di Benedetto, P.S. Barbato, G. Landi, *Effect of CO<sub>2</sub> on the Methane Combustion over a Perovskite Catalyst at High Pressure*, Energy & Fuels 27 (10) (2013) 6017-6023 DOI: 10.1021/ef401818z. Impact Factor: 2.733
19. Gianluca Landi, Luciana Lisi, Raffaele Pirone, Miriam Tortorelli, Gennaro Russo, *NO decomposition over La-doped Cu-ZSM5 monolith under adsorption-reaction conditions*, Applied Catalysis A: General 464-465 (2013) 61-67 DOI: 10.1016/j.apcata.2013.05.019. Impact Factor: 3.674

20. A. Di Benedetto, G. Landi, L. Lisi, G. Russo, *Role of CO<sub>2</sub> on CO preferential oxidation over CuO/CeO<sub>2</sub> catalyst*, Applied Catalysis B, Environmental 142-143 (2013) 169-177 DOI: 10.1016/j.apcatb.2013.05.001. Impact Factor: 6.007
21. Paola S. Barbato, Almerinda Di Benedetto, Valeria Di Sarli, Gianluca Landi, *Ignition and Quenching Behaviour of High Pressure CH<sub>4</sub> Catalytic Combustion over a LaMnO<sub>3</sub> Honeycomb*, Chemical Engineering Transactions 32 (2013) 655-660. Impact Factor: 1.03
22. Gianluca Landi, Paola Sabrina Barbato, Almerinda Di Benedetto, Raffaele Pirone, Gennaro Russo, *High pressure kinetics of CH<sub>4</sub>, CO and H<sub>2</sub> combustion over LaMnO<sub>3</sub> catalyst*, Applied Catalysis B: Environmental 134-135 (2013) 110-122 DOI: 10.1016/j.apcatb.2012.12.040. Impact Factor: 6.007
23. P.S. Barbato, G. Landi, G. Russo, *Catalytic combustion of CH<sub>4</sub>-H<sub>2</sub>-CO mixtures at pressure up to 10 bar*, Fuel Processing Technology 107 (2013) 147-154 DOI: 10.1016/j.fuproc.2012.08.024. Impact Factor: 3.019
24. A. Di Benedetto, G. Landi, V. Di Sarli, P.S. Barbato, R. Pirone, G. Russo, *Methane catalytic combustion under pressure*, Catalysis Today 197 (1) (2012) 206-213 DOI: 10.1016/j.cattod.2012.08.032. Impact Factor: 3.309
25. P.S. Barbato, G. Landi, *New concepts for power production by catalytic combustion: a short review*, Current Topics in Catalysis 10 (2012) 75-92. Impact Factor: n.a
26. Paola S. Barbato, Almerinda Di Benedetto, Valeria Di Sarli, Gianluca Landi, and Raffaele Pirone, *High-Pressure Methane Combustion over a Perovskite Catalyst*, Industrial & Engineering Chemistry Research 51 (22) (2012) 7547-7558 DOI: 10.1021/ie201736p. Impact Factor: 2.235
27. G. Landi, L. Lisi, R. Pirone, G. Russo, M. Tortorelli, *Effect of water on NO adsorption over Cu-ZSM-5 based catalysts*, Catalysis Today 191 (1) (2012) 138-141 DOI: 10.1016/j.cattod.2012.01.018. Impact Factor: 3.309
28. M. P. Casaletto, G. Landi, L. Lisi, P. Patrono, F. Pinzari, *Effect of the support on the catalytic properties of vanadyl phosphate in the oxidative dehydrogenation of propane*, Journal of Molecular Catalysis A: Chemical 329 (2010) 50 DOI : 10.1016/j.molcata.2010.06.017. Impact Factor: 3.679
29. P.S. Barbato, G. Landi, *Partial oxidation and CO<sub>2</sub>-ATR of methane over Rh/LaMnO<sub>3</sub> honeycomb catalysts*, Catalysis Letters 137 (1-2) (2010) 16 DOI : 10.1007/s10562-010-0327-y. Impact Factor: 2.291

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31. P.S. Barbato, G. Landi, R. Pirone, G. Russo and A. Scarpa, *Auto-thermal combustion of CH<sub>4</sub> and CH<sub>4</sub>-H<sub>2</sub> mixtures over bi-functional Pt-LaMnO<sub>3</sub> catalytic honeycomb*, Catalysis Today 147 (Supplement 1) (2009) S271 DOI: 10.1016/j.cattod.2009.07.018. Impact Factor: 3.309
32. Andrea Scarpa, Paola Sabrina Barbato, Gianluca Landi, Raffaele Pirone and Gennaro Russo, *Combustion of methane-hydrogen mixtures on catalytic tablets*, Chemical Engineering Journal 154 (1-3) (2009) 315 DOI: 10.1016/j.cej.2009.05.013. Impact Factor: 4.058
33. A. Teixeira-Neto, L. Marchese, G. Landi, L. Lisi, H. O. Pastore, *[V,Al]-MCM-22 Catalyst in the Oxidative Dehydrogenation of Propane*, Catalysis Today 133-135 (2008) 1. Impact Factor: 3.309
34. S. Cimino, G. Landi, L. Lisi, G. Russo, *Rich Catalytic Combustion of Methane over Structured Rh/LaMO<sub>3</sub> Catalysts*, Catalysis Today 117 (2006) 454. Impact Factor: 3.309
35. G. Landi, L. Lisi, G. Russo, *Oxidation of propane and propylene to acrylic acid over vanadyl pyrophosphate*, Journal of Molecular Catalysis A: Chemical 239 (2005) 172. Impact Factor: 3.679
36. S. Cimino, G. Landi, L. Lisi, G. Russo, *Development of a dual functional structured catalyst for partial oxidation of methane to syngas*, Catalysis Today 105 (2005) 718. Impact Factor: 3.309
37. G. Landi, L.Lisi, J.-C. Volta, *Oxidation of propane to acrylic acid over vanadyl pyrophosphate: modifications of the structural and acid properties during the precursor activation and their relationship with catalytic performances*, Journal of Molecular Catalysis A: Chemical 222 (2004) 175. Impact Factor: 3.679
38. G. Landi, L.Lisi, J.-C. Volta, *Role of water in the partial oxidation of propane to acrylic acid*, Catalysis Today 91-92 C (2004) 275. Impact Factor: 3.309
39. G. Landi, L.Lisi, J.-C. Volta, *Effect of water on the catalytic behaviour of VPO in the selective oxidation of propane to acrylic acid*, Chemical Communications 2003 (4) 492. Impact Factor: 6.718

#### **OTHER PUBLICATIONS (NOT ISI JOURNALS)**

- S. Cimino, G. Landi, L. Lisi, G. Russo, *Bi-functional Rh-LaMO<sub>3</sub> (M= Co, Mn) structured catalysts for partial oxidation of methane to syngas*, Chemical Engineering Transactions 8 (2005) 55

