

Списък

на научните трудове на доц. д-р Татяна Табакова,
представени за участие в конкурс за „професор” (ДВ бр 22/16.03.2012)

1. V. Idakiev, Z.-Y. Yuan, T. Tabakova, B.-L. Su, “Titanium oxide nanotubes as supports of nano-sized gold catalysts for low temperature water-gas shift reaction”, *Appl. Catal. A:Gen.*, **281** (2005) 149 - 155.
2. T. Tabakova, F. Boccuzzi, M. Manzoli, A. Chiorino, D. Andreeva, “Characterization of nanosized gold, silver and copper catalysts supported on ceria”, *Stud. Surf. Sci. Catal. Catal.*, “Oxide based materials: new sources, novel phases, new applications” v. **155** (2005) 493 - 500.
3. T. Tabakova, V. Idakiev, K. Tenchev, F. Boccuzzi, M. Manzoli, A. Chiorino, “Pure hydrogen production on a new gold-thoria catalyst for fuel cell applications”, *Appl. Catal. B*, **63** (1-2) (2006) 94 - 103.
4. T. Tabakova, F. Boccuzzi, M. Manzoli, J. W. Sobczak, V. Idakiev, D. Andreeva, “A comparative study of nanosized I B/ceria catalysts for low-temperature water-gas shift reaction “ *Appl. Catal. A*, **298** (2006) 127 - 143.
5. V. Idakiev, T. Tabakova, A. Naydenov, Z.-Y. Yuan, B.-L. Su, “Gold catalysts supported on mesoporous zirconia for low-temperature water-gas shift reaction”, *Appl. Catal. B*, **63** (3-4) (2006) 178 - 186.
6. F. Menegazzo, M. Manzoli, A. Chiorino, F. Boccuzzi, T. Tabakova, M. Signoretto, F. Pinna, N. Pernicone, “Quantitative determination of gold active sites by chemisorption and by infrared measurements of adsorbed CO”, *J. Catal.*, **237** (2006) 431 - 434.
7. V. Idakiev, T. Tabakova, Z.-Y. Yuan, T.-Z. Ren, X.-D. Zou, B.-L. Su, “Gold catalysts supported on mixed oxides for hydrogen production”, *Stud. Surf. Sci. Catal.*, **162** (2006) 1017 - 1024.
8. G. Avgouropoulos, J. Papavasiliou, T. Tabakova, V. Idakiev, T. Ioannides, “A comparative study of ceria-supported gold and copper oxide catalysts for preferential CO oxidation reaction”, *Chem. Eng. J.*, **124** (2006) 41 - 45.
9. F. Vindigni, M. Manzoli, A. Chiorino, T. Tabakova, F. Boccuzzi, “CO adsorption on gold clusters stabilised on ceria-titania mixed oxides: Comparison with reference catalysts”, *J. Phys. Chem. B*, **110** (2006) 23329 - 23336.

10. T. Tabakova, V. Idakiev, J. Papavasiliou, G. Avgouropoulos, T. Ioannides, "Effect of additives on the WGS activity of combustion synthesized CuO/CeO₂ catalysts", *Catal. Commun.*, **8** (2007) 101 - 106.
11. M. Manzoli, F. Vindigni, A. Chiorino, T. Tabakova, V. Idakiev, F. Boccuzzi, "New gold catalysts supported on mixed ceria-titania oxides for water-gas shift and preferential CO oxidation reaction", *React. Kin. Catal. Lett.*, **91** (2) (2007) 213-221.
12. G. Avgouropoulos, J. Papavasiliou, T. Tabakova, M. Manzoli, V. Idakiev, F. Boccuzzi, T. Ioannides, "High purity hydrogen production over nanostructured Au/doped ceria catalysts", in „*Nanoscience & Nanotechnology*” E. Balabanova, I. Dragieva (Eds.), Issue **7**, Heron Press Sci. Ser., Sofia, 2007, p. 191-194.
13. D. Andreeva, I. Ivanov, L. Ilieva, J.W. Sobczak, G. Avdeev, T. Tabakova, "Nanosized gold catalysts supported on ceria and ceria-alumina for WGS reaction: influence of the preparation method", *Appl. Catal. A*, **333** (2007) 153 – 160.
14. V. Idakiev, T. Tabakova, K. Tenchev, Z.-Yong Yuan, T.-Zhen Ren, B.-Lian Su, "Gold nanoparticles supported on ceria-modified mesoporous titania as highly active catalysts for low-temperature water-gas shift reaction", *Catal. Today*, **128** (2007) 223 - 229.
15. Z.-Yong Yuan, V. Idakiev, A. Vantomme, T. Tabakova, T.-Zhen Ren, B.-Lian Su, „Mesoporous and nanostructured CeO₂ as supports of nano-sized gold catalysts for low-temperature water-gas shift reaction“, *Catal. Today*, **131** (2008) 203-210.
16. T. Tabakova, V. Idakiev, J. Papavasiliou, G. Avgouropoulos, T. Ioannides, "Impact of the preparation method on the water-gas shift activity of CuO/doped-ceria catalysts", *Bulg. Chem. Commun.*, **40** (1) (2008) 42 - 47.
17. T. Tabakova, M. Manzoli, F. Boccuzzi, G. Avgouropoulos, J. Papavasiliou, T. Ioannides, V. Idakiev, "Selective CO oxidation over nanostructured Au/Zn-CeO₂ catalyst", in "Nanoscience & Nanotechnology", E. Balabanova, I. Dragieva (Eds.), Issue **8**, Acad. M. Drinov Publ. House., Sofia, 2008, p. 190-193.
18. V. Idakiev, T. Tabakova, J.-L. Cao, K. Tenchev, Z.-Y. Yuan, "Nanosized gold catalysts supported on high-surface-area mesoporous Ce_{0.8} Zr_{0.2}O₂ support for Water-Gas Shift Reaction", in 'Nanoscience & Nanotechnology", E. Balabanova, I. Dragieva (Eds.), Issue **8**, Acad. M. Drinov Publ. House, Sofia, 2008, p. 199-203.
19. G. Avgouropoulos, M. Manzoli, F. Boccuzzi, T. Tabakova, J. Papavasiliou, T. Ioannides, V. Idakiev, "Catalytic performance and characterization of Au/doped-ceria catalysts for the preferential CO oxidation reaction", *J. Catal.*, **256** (2008) 237-247.

20. T. Tabakova, V. Idakiev, G. Avgouropoulos, J. Papavasiliou, T. Ioannides, "Role of the preparation method on the activity of Cu-Mn spinel oxide catalysts for LT-WGSR", Proc. 9th Int. Conf. on Fundamental and Applied Aspects of Physical Chemistry, Ed. A. Antic-Jovanovic, Belgrade, 24-26 September 2008, vol. **1** (2008) p. 160 - 162.
21. M. Manzoli, G. Avgouropoulos, T. Tabakova, J. Papavasiliou, T. Ioannides, F. Boccuzzi, "Preferential CO oxidation in H₂-rich gas mixtures over Au/doped ceria catalysts", *Catal. Today*, **138** (2008) 238-243.
22. V. Idakiev, T. Tabakova, K. Tenchev, Z. Y. Yuan, T. Z. Ren, A. Vantomme and B. L. Su, "Gold Nanoparticles Supported on Ceria-Modified Mesoporous-Macroporous Binary Metal Oxides as Highly Active Catalysts for Low-Temperature Water-Gas Shift Reaction", *J. Mat. Sci.*, **44** (2009) 6637-6643.
23. C. Gennequin, M. Lamalle, R. Cousin, S. Siffert, V. Idakiev, T. Tabakova, A. Aboukais, B. L. Su, "Total oxidation of volatile organic compounds on Au/Ce-Ti-O and Au/Ce-Ti-Zr-O mesoporous catalysts", *J. Mat. Sci.*, **44** (2009) 6654-6662.
24. S. Todorova, J.-L. Cao, T. Tabakova, K. Tenchev, G. Kadinov, Z.-Y. Yuan, V. Idakiev, "Effect of preparation method on catalytic activity of CuO/Ce_{0.8}Zr_{0.2}O₂ catalysts in the reaction of complete *n*-hexane oxidation", in '*Nanoscience & Nanotechnology*', E. Balabanova, I. Dragieva (Eds.), Acad. M. Drinov Publ. House, Sofia, Issue 9, (2009) p.147-150.
25. T. Tabakova, M. Manzoli, F. Vindigni, V. Idakiev, F. Boccuzzi, "CO-free hydrogen production for fuel cell applications over Au/CeO₂ catalysts: FTIR insight into the role of dopant" *J. Phys. Chem. A*, **114** (2010) 3909-3915.
26. H.L. Tidahy, S. Siffert, V. Idakiev, T. Tabakova, Z.Y. Yuan, R. Cousin, A. Aboukais, B.L. Su, "Titanium oxide nanotubes as supports of Au and/or Pd nano-sized catalysts for total oxidation of VOCs", *Stud. Surf. Sci. Catal.*, **175** (2010) 743-746.
27. T. Tabakova, G. Avgouropoulos, J. Papavasiliou, M. Manzoli, F. Boccuzzi, K. Tenchev, F. Vindigni, T. Ioannides, "CO-free hydrogen production over Au/CeO₂-Fe₂O₃ catalysts: Part 1. Impact of the support composition on the performance for the preferential CO oxidation reaction", *Appl. Catal. B*, **101** (2011) 256-265.
28. T. Tabakova, M. Manzoli, D. Paneva, F. Boccuzzi, V. Idakiev, I. Mitov, "CO-free hydrogen production over Au/CeO₂-Fe₂O₃ catalysts: Part 2. Impact of the support composition on the performance in the water-gas shift reaction", *Appl. Catal. B*, **101** (2011) 266-274.

29. F. Vindigni, M. Manzoli, A. Damin, T. Tabakova, A. Zecchina, "Surface and inner defects in Au/CeO₂ WGS catalyst: relation between Raman properties, reactivity and morphology", *Chemistry - A European Journal*, **17** (2011) 4356-4361.
30. T. Tabakova, Q.-F. Deng, K. Tenchev, I. Ivanov, Z.-Y. Yuan and V. Idakiev, „Hydrogen production by water-gas shift reaction over gold nanoparticles supported on mesoporous Ce-Fe mixed oxides”, in “*Nanoscience & Nanotechnology*”, E. Balabanova, I. Dragieva (Eds.), 11 (2011) 155-159.
31. V. Idakiev, T. Tabakova, K. Tenchev, G.-S. Shao and Z.-Y. Yuan, „Gold catalysts supported on hierarchically mesoporous metal oxides (Me - Ce, Fe, Ni, V) doped titanium oxides for water-gas shift reaction”, in “*Nanoscience & Nanotechnology*”, E. Balabanova, I. Dragieva (Eds.), 11 (2011) 150-154.
32. L. Ilieva, G. Munteanu, P. Petrova, T. Tabakova, J.W. Sobczak, W. Lisowski, M. Krawczyk, M.V. Abrashev, D. Andreeva, “Reduction behavior of nanosized gold catalysts supported on ceria doped with CoO_x”, in “*Nanoscience and Nanotechnology*”, E. Balabanova, I. Dragieva (Eds.), 11 (2011) 59-63.
33. V. Idakiev, T. Tabakova, K. Tenchev, Z. Y. Yuan, T. Z. Ren, B. L. Su, “Gold catalysts supported on ceria-modified mesoporous zirconia for low-temperature water-gas shift reaction”, *J. Porous Mat.*, **19** (2012) 25-30.
34. L. Ilieva, P. Petrova, T. Tabakova, R. Zanella, Z. Kaszukur, “Gold catalysts on ceria doped with MeO_x (Me = Fe, Mn, Co and Sn) for complete benzene oxidation: effect of composition and structure of the mixed supports”, *React. Kin. Mech. Catal.*, **105** (2012) 23-37.
35. L. Ilieva, G. Munteanu, P. Petrova, T. Tabakova, N. Velinov, I. Mitov, „Effect of preparation method on the reduction behaviour of gold catalysts supported on ceria doped with FeO_x: assignment and kinetic parameters of the individual reduction processes”, *React. Kin. Mech. Catal.*, **105** (2012) 39-52.
36. D. Andreeva, T. Tabakova, L. Ilieva, “Ceria-based gold catalysts: synthesis, properties and catalytic performance for the WGS and PROX processes” in “*Catalysis by ceria and related materials*” A. Trovarelli and P. Fornasiero (Eds), Imperial College Press, London, UK, 2012, приета за печат
37. T. Tabakova, D. Dimitrov, K. Ivanov, V. Idakiev, “Role of the preparation method on catalytic activity of Ag/CeO₂ for oxidation of CO, CH₃OH and (CH₃)₂O”, „*Научни трудове“ на ПУ „П. Хилендарски“ - Химия*”, 38 (5) (2011) 123-135.

38. T. Tabakova, D. Dimitrov, K. Ivanov, M. Manzoli, F. Boccuzzi, "Oxidation of CH₃OH, (CH₃)₂O and CO over nanosized gold catalysts: effect of support", in "*Nanoscience & Nanotechnology*", E. Balabanova, I. Dragieva (Eds.), (2012) приета за печат.
39. T. Tabakova, D. Dimitrov, K. Ivanov, M. Manzoli, F. Boccuzzi, "Nanosized gold and silver catalysts supported on ceria for abatement of air pollutants – CH₃OH, (CH₃)₂O and CO", in "*Nanoscience & Nanotechnology*", E. Balabanova, I. Dragieva (Eds.), (2012) приета за печат.
40. L. Ilieva, P. Petrova, T. Tabakova, R. Zanella, M.V. Abrashev, J.W. Sobczak, W. Lisowski, Z. Kaszukur, D. Andreeva, "Relationship between structural properties and activity in complete benzene oxidation of Au/CeO₂-CoO_x catalysts", *Catal. Today* (2012) doi:10.1016/j.cattod.2012.03.006.