

СПИСЪК

на научните публикации на доц. д-р Васко Идакиев, представени за участие в конкурс за професор, Институт по катализ, БАН, (ДВ бр. 91/20.11.2012 г.)

1. T. Tabakova, **V. Idakiev**, D. Andreeva, I. Mitov, "Influence of the microscopic properties of the support on the catalytic activity of Au/ZnO, Au/ZrO₂, Au/Fe₂O₃, Au/Fe₂O₃-ZnO, Au/Fe₂O₃-ZrO₂ catalysts for the WGS reaction", *Appl. Catal. A*, **202** (2000) 91 - 97.

Импакт фактор: 1.58

Цитати: 107

2. T. Tabakova, **V. Idakiev**, D. Andreeva, "Gold-based catalysts on titania and zirconia for low-temperature water-gas shift reaction" in "*Heterogeneous Catalysis*", Proc. 9th Int. Symp., Varna, 2000, p. 489 - 494.

3. M. Gabrovska, M. Bankova, **V. Idakiev**, R. Edreva-Kardjieva, I. Uzunov, "Hydrogenation of vegetable oil on Ni-Mg-Al catalysts obtained from hydrotalcite-like precursors", in "*Heterogeneous Catalysis*", Proc. 9th Int. Symp., Varna, 2000, p. 513 - 518.

4. D. Andreeva, T. Tabakova, **V. Idakiev**, L. Ilieva, "Low-temperature water-gas shift reaction on gold based catalysts", in Proc. Workshop of UNIDO-ISC, "Catalysis for Sustainable Chemistry: Structure, Processes and Industrial Applications", Eds. L. Petrov, Ch. Bonev, 3-6 Sofia, November, 2001, p. 86 - 91.

5. D. Andreeva, **V. Idakiev**, T. Tabakova, L. Ilieva, P. Falaras, A. Bourlinos, A. Travlos, "Low-temperature water-gas shift reaction over Au/CeO₂ catalysts", *Catal. Today*, **72** (2002) 51 - 57, **Most cited paper among the published in Catalysis Today for the period 2001-2005.**

Импакт фактор: 2.33

Цитати: 178

6. F. Boccuzzi, A. Chiorino, M. Manzoli, D. Andreeva, T. Tabakova, L. Ilieva, **V. Idakiev**, "Gold, silver and copper catalysts supported on TiO₂ for pure hydrogen production", *Catal. Today*, **75** (2002) 169 - 175.

Импакт фактор: 2.33

Цитати: 81

7. M. Gabrovska, R. Edreva-Kardjieva, **V. Idakiev**, B. Kunev, "The influence of Mg on the structure and the properties of Ni-Al tacovite-like material", *Bulg. Chem. Comm.*, **34** (2002) 395 - 404.

8. **V. Idakiev**, L. Ilieva, D. Andreeva, J. L. Blin, L. Gigot and B. L. Su “Complete benzene oxidation over gold-vanadia catalysts supported on nanostructured mesoporous titania and zirconia”, *Appl. Catal. A*, **243** (2003) 25 - 39.

Импакт фактор: 2.83

Цитати: 33

9. T. Tabakova, F. Boccuzzi, M. Manzoli, J.W. Sobczak, **V. Idakiev**, D. Andreeva, “Effect of synthesis procedure on the low-temperature WGS activity of Au/ceria catalysts”, *Appl. Catal. B*, **49** (2004) 73 - 81.

Импакт фактор: 4.04

Цитати: 66

10. **V. Idakiev**, T. Tabakova, Z.-Y. Yuan, B.-L. Su, “Gold catalysts supported on mesoporous titania for low-temperature water-gas shift reaction”, *Appl. Catal. A*, **270** (2004) 135 - 141, *Featured on the ScienceDirect TOP25 Hottest Articles (July-September 2004) within Appl. Catal. A:General*.

Импакт фактор: 2.38

Цитати: 68

11. **V. Idakiev**, T. Tabakova, P. Konova, A. Naydenov, “Activity and deactivation of gold catalysts supported on mesoporous titania for water-gas shift reaction”, in: Proceedings of the 7th International Conference on Fundamental and Applied Aspects of Physical Chemistry, Belgrade, 21-23 September, 2004, p. 201-203.

12. **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*, **281** (2005) 149 – 155, *Featured on the ScienceDirect TOP25 Hottest Articles (January-March 2005, April-June 2005, October- December 2007) within Appl. Catal. A:General; Most cited paper with Bulgarian coauthors for the period 2004-2008 (ISI)*.

Импакт фактор: 3.64

Цитати: 129

13. 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** (2006) 94 - 103.

Импакт фактор: 4.75

Цитати: 35

14. 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.

Импакт фактор: 3.64

Цитати: 53

15. **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** (2006) 178 – 186, *Featured on the ScienceDirect TOP 25 Hottest Articles (January- March 2006) within Appl. Catal. B: Environmental*.

Импакт фактор: 4.75

Цитати: 61

16. **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.

Импакт фактор: 0.31

17. 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, *Featured on the ScienceDirect TOP 25 Hottest Articles (October- December 2006) within Chem. Eng. J.*

Импакт фактор: 3.17

Цитати: 46

18. 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.

Импакт фактор: 2.90

Цитати: 45

19. 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.

Импакт фактор: 0.47

Цитати: 7

20. 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.

21. M. Manzoli, F. Vindigni, A. Chiorino, T. Tabakova, **V. Idakiev**, F. Boccuzzi, "Nanosized gold catalysts supported on mixed ceria-titania oxides for the water-gas shift reaction", in "Nanoscience & Nanotechnology", E. Balabanova, I. Dragieva (Eds.) Issue **7**, Heron Press Sci. Ser., Sofia, 2007, p. 187 - 190.

22. **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.

Импакт фактор: 3.47

Цитату: 23

23. 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.

Импакт фактор: 3.47

Цитату: 31

24. 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.

Импакт фактор: 0.16

Цитату: 1

25. 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.

26. **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.

27. 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, *Featured on the ScienceDirect TOP25 Hottest Articles (April-June, July-September 2008) within J. Catal.*

Импакт фактор: 5.71

Цитату: 48

28. 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.

29. **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.

Импакт фактор: 2.32

Цитату: 6

30. C. Gennequin, M. Lamallem, 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.

Импакт фактор: 2.32

Цитату: 9

31. 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.

32. 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.

Импакт фактор: 2.73

Цитату: 7

33. S. Todorova, J.-L. Cao, D. Paneva, K. Tenchev, I. Mitov, G. Kadinov, Z.-Y. Yuan, **V. Idakiev**, “Mesoporous CuO-Fe₂O₃ composite catalysts for complete *n*-hexane oxidation”, *Stud. Surf. Sci. Catal.* **175** (2010) 547 - 550.

34. 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.

Цитату: 1

35. 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.

Импакт фактор: 4.75

Цитату: 5

36. **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.

37. 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.

38. 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.

39. **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.

Импакт фактор: 0.98

40. F. Vindigni, M. Manzoli, T. Tabakova, **V. Idakiev**, F. Boccuzzi, A. Chiorino, “Gold catalysts for low temperature water-gas shift reaction: Effect of ZrO₂ addition to CeO₂ support, *Appl. Catal. B*, **125** (2012) 507 – 515.

Импакт фактор: 5.63

41. Tomas Ramirez Reina, Svetlana Ivanova, **Vasko Idakiev**, Juan J Delgado, Ivan Ivanov, Tatyana Tabakova, Miguel Angel Centeno and Jose Antonio Odriozola, “Impact of Ce-Fe synergism on the catalytic behaviour of Au/CeO₂-FeOx/Al₂O₃ for pure H₂ production”, *Catal. Sci. Technol.*, (2013), DOI: 10.1039/C2CY20537H.

42. T. Tabakova, **V. Idakiev**, G. Avgouropoulos, J. Papavasiliou, M. Manzoli, F. Boccuzzi, T. Ioannides, “Highly active copper catalyst for low-temperature water-gas shift reaction prepared via a Cu-Mn spinel oxide precursor”, *Appl. Catal. A*, **451** (2013) 184-191.

Импакт фактор: 3.90

43. T. Barakat, **V. Idakiev**, R. Cousin, G.-S. Shao, Z.-Y. Yuan, T. Tabakova, S. Siffert, „Total oxidation of toluene over noble metal based Ce, Fe and Ni doped titanium oxides”, *Appl. Catal. B*, (2013) under review.

Импакт фактор: 5.63

44. M. Gabrovska, **V. Idakiev**, K. Tenchev, D. Nikolova, R. Edreva-Kardjieva, D. Crisan, “Catalytic performance of Ni-Al Layered Double Hydroxides in CO purification processes”, *Russ. J. Phys. Chem.*, (2013) in press.

Импакт фактор: 0.46

45. M. Gabrovska, **V. Idakiev**, K. Tenchev, D. Nikolova, R. Edreva-Kardjieva, D. Crisan, "Ni-Al layered double hydroxides as catalysts for CO purification processes", in: Proc. 11th Int. Conf. on Fundamental and Applied Aspects of Physical Chemistry, Editors: S. Anić and Ž. Čupić, Belgrade, 24-28 September, 2012, p. 162 - 164.

46. Γιώργος Αυγουρόπουλος, Ιωάννα Παπαβασιλείου, Vasko Idakiev, Tatyana Tabakova, Θεόφιλος Ιωαννίδης, "Εκλεκτική οξειδωση του CO παρουσία περίσσειας H₂ με ενισχυμένους καταλύτες Au/CeO₂", 6-7 October 2006, Levkada, Greece, p. 180 - 183.

Общ брой на научните статии за конкурса: 46 бр.

Научни статии в списания с импакт фактор: 29 бр.

Научни статии в списания без импакт фактор: 2 бр

Научни статии в материали от конференции: 15

Сумарен импакт фактор: 80.65

Общ брой цитати на публикациите за конкурса: 1040

Разпределение на публикациите по реферирани списания:

Applied Catalysis A: General (6)

Applied Catalysis B: Environmental (6)

Studies in Surface Science and Catalysis (3)

Catalysis Today (4)

Reaction Kinetics and Catalysis Letters (1)

Journal of Materials Science (2)

Journal of Catalysis (1)

Bulgarian Chemical Communications (1)

Catalysis Communications (1)

Chemical Engineering Journal (1)

Journal of Physical Chemistry A (1)

Journal of Porous Material (1)

Russian Journal of Physical Chemistry (1)