CURRICULUM VITAE
for
Lyadov Anton Sergeevich

Date of Birth: August 31, 1985

Tel. mobile: +27-84-822-82-54

E-mail: gazchem@gmail.com

Skype: aromagaz

Education

1. 2003-2007 – Bachelor of Chemistry. Peoples' Friendship University of Russia. Faculty of Science. Bachelor's program «Chemistry».

2. 2007-2009 – Master of Chemistry. Peoples' Friendship University of Russia. Faculty of Science. Master's program **«** Inorganic chemistry».

3. 2009-2012 – Ph.D in Petrochemistry. A.V.Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences. 2009-2012. Thesis «The Fischer–Tropsch Synthesis in a Three-Phase System with Iron Catalyst Nanoparticles». Advisor: Dr. S. N. Khadzhiev, Academician of Russian Academy of Sciences.

Work Experience

May 2013- until 23 May 2014 working as Senior Researcher in Wits University, Department of Science, School of Chemistry, Supervisor: Prof. N. J. Coville, Johannesburg, South Africa.

Type of work: synthesis, functionalisation and characterisation of shaped carbon nanomaterials and used these materials as support for Fischer-Tropsch catalysts. Also we studied features of Fischer-Tropsch synthesis on these catalysts.

Web-site: http://www.wits.ac.za/Strongmaterials

July 2009 – May 2013 worked as a Chief of Sector of Catalytic Processes in the A.V.Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences (TIPS RAS).

TIPS RAS is a world recognized academic Institute (employees: ca.400), that has a leading international position in petrochemistry and oil refinery, polymers and material science (incl. nanocomposites), membranes and membrane technology.

Type of work: development of new catalytic systems for the Fischer-Tropsch synthesis and investigation of the influence of various factors on the Fischer-Tropsch synthesis, such as activation conditions, synthesis temperature and pressure, synthesis gas composition and velocity, etc.

Web-site: http://www.ips.ac.ru/

Research interests: Fischer-Tropsch Synthesis, Methanol Synthesis, GTL (Gas to liquid process), Heterogeneous Catalysis, Nanosized Catalysts.

Associate Memberships:

1. Member of CATSA (The Catalysis Society of South Africa) from 2013.

Honor and Awards

1. 2008 – Academician Gryaznov Award, Moscow, Russia
2. 2010 – Prize of Nanotechnology International Forum in Catalysis, Moscow, Russia
3. 2011 – Award for Young Scientists, Conference "Actual challenges of petrochemistry", Zvenigirid, Russia

Publications

Articles

1. S. N. Khadzhiev, A. Yu. Krylova, M. V. Kulikova, A. S. Lyadov, and S. A. Sagitov «Fischer-Tropsch Synthesis in a Slurry Reactor in the Presence of Nanosized Cobalt Catalysts Synthesized in situ in a Hydrocarbon Medium» // Petroleum Chemistry. 2013. Vol. 53. №3. P. 171.
2. S. N. Khadzhiev, A. Yu. Krylova, A. S. Lyadov, and M. V. Kulikova «Formation of Alcohols on Nanosized Iron Catalysts under Fischer–Tropsch Synthesis Conditions» // Petroleum Chemistry. 2012. Vol. 52. №4. P. 240.
3. A. Yu. Krylova, A. S. Lyadov, M. V. Kulikova, and S. N. Khadzhiev «Formation of Carbon Dioxide in the Fischer–Tropsch Synthesis on Nanosized Iron Catalyst Particles» // Petroleum Chemistry. 2012. Vol. 52. №2 P. 74.

4. S. N. Khadzhiev, A. S. Lyadov, M. V. Krylova, and A. Yu. Krylova «Fischer–Tropsch Synthesis in a Three-Phase System with Iron Catalyst Nanoparticles»// Petroleum Chemistry. 2011. Vol. 51. №1 P. 24.
5. Krylova A.Y., Lyadov A.S., Sagitov S.A., Krylova M.V., Khadzhiev S.N., Chernavskii P.A. «Peculiarities of the Iron Reduction Mechanism in Fe-Al-K System» // Russian Journal of Physical Chemistry A. 2011. Vol. 85. №1 P. 55.
6. A. M. Gyul'maliev, A. Yu. Krylova, and A. S. Lyadov « A Thermodynamic Study of the Fe_2O_3–H_2–CO System» // Solid Fuel Chemistry. 2012. Vol. 46. №1 P. 28.
7. A. Yu. Krylova, V. I. Kurkin, M. V. Kulikova, A. S. Lyadov, and S. A. Sagitov «Synthesis of Monohydric Alcohols from CO and H_2 on Fe/Sibunit Catalysts» // Solid Fuel Chemistry. 2011. Vol. 45. №4 P. 281.
8. A. Yu. Krylova, Yu. G. Kryazhev, M. V. Kulikova, V. I. Kurkin, A. S. Lyadov, and S. A. Sagitov « Synthesis of Alcohols from CO and H_2 on Iron Catalysts Containing Carbon Fiber» // Solid Fuel Chemistry. 2011. Vol. 45. №5 P. 322.
9. A. Yu. Krylova, A. A. Panin, A. S. Lyadov, S. A. Sagitov, V. I. Kurkin, and Yu. G. Kryazhev « Fischer–Tropsch Iron Catalysts Supported on Fibrous Carbon Material» // Petroleum Chemistry. 2011. Vol. 51. №5 P. 317.

Patents

1. RU 2407731 C2 (20.01.2009)
2. RU 2443471 C2 (02.06.2010)
3. RU 2466790 C1 (19.05.2011)
4. RU 2492923 C1 (20.09.2013)
5. RU 2489207 C1 (10.08.2013)

Oral Presentations.

1. 10/2009 «Fischer–Tropsch Synthesis over Iron Catalyst». Conference «Actual challenges of petrochemistry», Zvenigorod.

2. 04/2010 «Formation of ultrafine iron and cobalt oxide in the wax». XLVI Russian Conference on Mathematics, Computer Science, Physics and Chemistry. Moscow.
3. 05/2010 «Formation and catalytic activity of the iron catalyst in a three-phase Fischer-Tropsch synthesis». Russian Conference «Research, Innovation, Technology». Omsk.
4. 11/2010 «Formation and catalytic activity of the iron catalyst in Fischer-Tropsch synthesis». Nanotechnology International Forum. Moscow.
5. 03/2011 «Fischer–Tropsch Synthesis in a Three-Phase System with Iron Catalyst Nanoparticles», First Russian Petroleum Congress. Moscow.
6. 09/2011 «Fischer–Tropsch Synthesis in a Three-Phase System with Iron Catalyst». Mendeleev Congress on General and Applied Chemistry. Volgograd.
7. 10/2011 «Nanoheterogeneeous iron catalysts for Fischer-Tropsch synthesis» Russian Congress on Catalysis. 3-7 October 2011. Moscow.
8. 11/2011 «A new technology for hydrocarbon production from synthesis gas over nano iron catalysts». Nanotechnology International Forum. Moscow.
9. 09/2012 «Fischer–Tropsch Synthesis in a Three-Phase System with Nano Catalyst» Conference «Actual challenges of petrochemistry», Zvenigorod.
10. 11/2013 «The Fischer-Tropsch Synthesis in a Three-Phase System on Iron Nanosized Catalysts». CATSA conference, Wild Cost, South Africa.
11. 11/2013 «The influence of carbon supports on Fischer-Tropsch synthesis». C*Change meeting, Wild Cost, South Africa.