Curriculum vitae
Sevinj N. Osmanova

Profile

F/Name: **Sevinj N. Osmanova**

Date of Birth: 26th september 1985

Place of Birth - Baku, Azerbaijan

Citizenship: azerbaijanian

Address: AZ1143, Baku, Azerbaijan

Contacts

Email:

sevinj.nasib.osmanli.26@gmail.com

Languages

English, Russian, Turkish

Hobbies


Reading

Music

Education

2004-2008 **Bachelor degree**: **Chemistry**
Azerbaijan State Pedagogical University**.**

2009-2011 **Master degree**: **InorganicChemistry**
Azerbaijan State Pedagogical University.

2014-2018 **Ph.D: Inorganic Chemistry**
Institute of Catalysis and Inorganic Chemistry named after Acad. M.Naghiyev

From 2019 **PostDoc:**
Institute of Catalysis and Inorganic Chemistry named after Acad. M.Naghiyev

Research ambition

Main directions of scientific activity:

- synthesis and research of catalysts, chemistry of composite materials, physical-chemical research methods in chemistry catalysis; application of spectroscopic research methods in chemistry

Work Experiences

- Institute of Catalysis and Inorganic Chemistry named after Acad. M.F.Naghiyev, "Molecular magnetics and conductors" laboratory leading researcher, Ph.D (from 2003 – present)
- Khazar University – Chemistry and Chemical Engineering Department**;** teacher (from 2019- present)

Technical/Experimental Lab Skills

- Synthesis inorganic compounds and catalysts-Autoclave method
- FTIR;
- UV-vis spectroscopy;
- SEM/EDS;
- X-Ray ;
- TG/DTG analysis;

Projects

- SOCAR Scientific Fund -2019
- "Horizon 2020" (European Commission) - 2019-2023

Publications

Conference participation

- S. Osmanova, G. Azimova, A. Mammadov, E. Ismailov, D. Taghiyev, J. Thybaut Phase composition of the MnOx-Na2WO4/SiO2 catalyst and thermodynamics of its fluctuations under conditions of the oxidative conversion of methane /12Chemistry Conference (12CC) October 13 - 14, 2023, Plovdiv, Bulgaria. p.151.
- S.N. Osmanova, G.R. Azimova, E.H. Ismailov, D.B. Taghiyev, J.W. Thybaut. Effect of pre-treatment conditions on the surface structure and activity of MnOx-Na2WO4/bentonite catalyst for direct conversion of methane to C2 hydrocarbons/ "CHEMISTRY, PHYSICS AND TECHNOLOGY OF SURFACE" 11-12 October, 2023, Kyiv, Ukraine p.118. (online oral presentation)
- S. Osmanova, G. Azimova, A. Mammadov, E. Ismailov, D. Taghiyev, J. Thybaut Elemental composition of the surface and stability of MnOx-Na2WO4/SiO2 catalyst under the conditions of oxidative conversion of methane, 17th International Conference of Physical Chemistry ROMPHYSCHEM-17 ABSTRACT BOOK September 25 - 27, 2023 Bucharest, ROMANIA, p.53.
- E.H. Ismailov, S.N.Osmanova, G.R. Azimova, A.N. Mammadov, D.B. Taghiyev, J.W. Thybaut Phase composition of $MnOx\text{-}Na_2WO_4/SiO_2$ catalyst and thermodynamics of the size dependent stability of manganese oxides nanoparticles in the oxidative condensation of methane to C_2 hydrocarbons International Conference «Current Problems in Catalysis» CPC-2023 Kyiv, Ukraine September 25-29, 2023 PROCEEDINGS p.79. (Online)
- S. Osmanova, G. Azimova, E. Ismailov, D. Taghiyev, J. Thybaut Effect Of The Complexing Agent - Precursor On The Activity Of $MnNaW/SiO_2$ catalysts for the oxidative conversion of methane / 13th Symposium on the Scientific Bases for the Preparation of Heterogeneous Catalysts (PREPA 13), University of Louvain (UCLouvain), Louvain la-Neuve, Belgium July 9 -13, 2023. P. 232-233.
- Osmanova S.N., Ismailov E.H., Taghiyev D.B., Thybaut J.W. Effect of reaction conditions on the phase composition, magnetic and catalytic properties of $MnOx\text{-}Na_2WO_4/SiO_2$ oxide system for oxidative conversion of methane Chemistry Conference for Young Scientists (CRF-ChemCYS) symposium 12-14 October 2022 Blankenberge, Belgium
- Sevinj Osmanova, Gunel Azimova, Sima Zulfugarova, Etibar Ismailov, Dilgam Taghiyev, Joris Thybaut Structure and Stability of $MnOx\text{-}Na_2WO_4/SiO_2$ Catalyst for Oxidative Conversion of Methane Ukrainian conference with international participation "CHEMISTRY, PHYSICS AND TECHNOLOGY OF SURFACE" 19-20 October, 2022, Kyiv pp.134 (Online)
- Sevinj Osmanova, Etibar Ismailov, DilgamTaghiyev, Joris Thybaut Effect of Reaction Temperature on the Surface Structure and Phase Composition of $MnOx\text{-}Na_2WO_4/SiO_2$ Catalyst for Oxidative Conversion of Methane YOURHETCAT2022, 11–13 of July, 2022 in Szeged, Hungary pp.54

Articles

- Rustamova A.I.; Gurbanov Z.G., Mammadova Z.M. Osmanova S.N., Guluzade A.Kh., Mammadov A.N., Ismailov E.H. Thermal Stability And Thermodynamics Of Pyrolysis Of Mono-, Bi-, And Trinuclear Carbinol Derivatives Of Ferrocene Chemical Problems, 2023, 21(3), p. 251–261. https://doi.org/10.32737/2221-8688-2023-3-251-261

- E. H. Ismailov, D. B. Taghiyev, S. M. Zulfugarova, S. N. Osmanova, G. R. Azimova & J. W. Thybaut Phase Composition and Catalytic Properties of MnNaW/SiO_2 Oxide System in Oxidative Conversion of Methane Theor Exp Chem 58, 61–69 (2022). https://doi.org/10.1007/s11237-022-09723-8

- Gurbanov, N., Gadimova, N., Osmanova, S., Ismailov, E., Akhundova, N. Chemical Composition, Thermal Stability Of Pomegranate Peel And Seed Powders And Their Application In Food Production Eastern-European Journal of Enterprise Technologies, 2022, 6(11-120), p. 24–33. https://doi.10.15587/1729-4061.2022.268983

- Ismailov, E.H., Abbasov, Y.A., Osmanova, S.N. et al. Oxidative Addition of C–H Acids to bis(1,5-cyclooctadiene) Ni(0)Ni(COD)$_2$ Complex. Theor Exp Chem. 2021. V.56, p.412-416. https://doi.org/10.1007/s11237-021-09670-w

- A.D. Valiyeva , E.H. Ismailov , S.N. Osmanova , R.D. Qasimov , P.A. Nadirov , J.I. Mirzai Phase Composition, Magnetic And Catalytic Properties Of Nanostructured Nickel-Containing Nax Zeolite In The Reaction Of Oxidative Conversion Of Propanol-1// J.Chemical Problems 2020, 3 (18),p.410-420.

- N.M. Aliyeva, A.A. Aliyeva, S.N.Osmanova, E.E.Mammadov, E.H. Ismayilov. Acidity of Zr/Al oxide catalysts for conversion of C_2-C_4 alcohols to olefins based on the data of the EPR spectra of adsorbed spin probes // J. Processes of Petrochemistry and Oil Refining, 2018.vol 19, p.147-155.

- Azizova, A.N., Tagiev, D.B., Osmanova, S.N. et al. Crystal and Molecular Structure of a Platinum(II) Complex with β-Mercaptoethylamine Hydrochloride. J Struct Chem 2018. V. 59, p. 188-192. https://doi.org/10.1134/S0022476618010298

- S.N.Osmanova, E.H.Ismailov, U.A.Kerimova Oxidative conversion of methane over ReOx/Alumina catalysts // Russian Journal of Chemistry and Chemical technology 2017. V. 60. N 8. P. 65-69. http://dx.doi.org/10.6060/tcct.2017608.5644