

## Amirkhanyan Narine

### Personal Information:

**Date of birth:** 28 October 1987  
**Place of birth:** Gavar, Armenia  
**Citizenship:** Republic of Armenia  
**Status:** Married  
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### Education

**2020 to present**-Institute of Chemical Physics , Laboratory of Macrokinetics of Solid State Reactions, PhD student

**2009-2011**-Yerevan State University, the Faculty of Chemistry, the department of Inorganic Chemistry, Master's degree

**2005-2009**-Yerevan State University, the Faculty of Chemistry, the department of Chemistry, Bachelor's degree

### Professional Experience

**2021 September to present** - A.B. Nalbandyan Institute of Chemical Physics National Academy of Sciences of RA, Laboratory of Macrokinetics of Solid State Reactions, Research Group of Advanced Material's Physical Chemistry and Engineering, Researcher

**2021 July to 2021 September** -A.B. Nalbandyan Institute of Chemical Physics National Academy of Sciences of RA, Laboratory of Kinetics of SHS Processes, Junior Researcher

**2010 August to 2011 August**- Scientific Technological Center of Organic and Pharmaceutical Chemistry, Junior Researcher

### Awards

**2011**-Certificate for the first place awarded from ARPA Institute Invention Competition - "Novel porous Ni Zr-based biomaterials for orthopedic applications"

### Research Grants

1. SC research grant - 21T-1D227 - "Nanoscale Antiperovskite Magnetic Materials: Synthesis and Function", Investigator, 13 800 000 AMD - 2021

2. SC research grant - 20TTSG-2E003 - "Bamboo-like hierarchical microstructure inspiring silicon and boron carbides by combustion synthesis with reactions thermokinetic coupling approach", Investigator, 55 000 000 AMD - 2020

## Computer Skills

MS Word, MS Excel, MS Access, MS PowerPoint, Photoshop, Isman Thermo Software, ImageJ, MS Jade, HSC-5, Prefix, Origin, Chemix, Internet

## Language Skills

Armenian - fluent, native, Russian –C1, English – B1

## Publications: Articles

**2020**-N. Amirkhanyan, S. Kharatyan, Kh. Manukyan, A. Aprahamian, “Thermodynamics and kinetics of solution combustion synthesis: Ni(NO<sub>3</sub>)<sub>2</sub> + fuels systems”, Combustion and Flame Journal, 221 (2020) 110-119.

**2012**-L.S. Apresyan, N.H. Amirkhanyan, R.M. Grigoryan, N.K. Sarkisyan,, K.V. Manukyan, S.L. Kharatyan, R.M. Aroutiounian, G.H. Gasparyan. “In vitro study on biocompatibility of new porous NiZr alloy as potential biomaterial”, New Armenian Medical Journal, 6(1) (2012).20-25

**2010**-Kh. Manukyan, N. Amirkhanyan, S. Aydinyana, V. Danghyan, R. Grigoryan, N. Sarkisyan, G. Gasparyan, R. Aroutiounian, S. Kharatyan, "Novel NiZr-based porous biomaterials: Synthesis and in vitro testing", Chemical Engineering Journal 162 (2010) 406-414

## Publications: Abstracts & Conference Proceedings

**2021**-N. Amirkhanyan, H.Kirakosyan , M. Zakaryan, A. Zurnachyan, S. Aydinyan, “Self-Propagating High-Temperature Synthesis of Silicon Carbide Using Reactions Thermokinetic Coupling Approach”, 2<sup>nd</sup> European Conference on Silicon and Silica Based, 4-8 October, 2021, Hungary, 118

**2019**-N.H. Amirkhanyan, S.L. Kharatyan, KH.V. Manukyan, “Kinetic Measurements for solution combustion synthesis”, XV International Symposium on Self-Propagation High-temperature Synthesis, 16-20 September, 2019, Moscow, Russia

**2011**-Kh. Kirakosyan, N.H. Amirkhanyan, A. Yegishyan, Kh. Manukyan, S. Kharatyan, "New technology for porous alloys fabrication", Tenth International Conference on Material Chemistry (MC10), 4-7 July, 2011, Manchester, UK

**2011**-Kh. Kirakosyan, N. Amirkhanyan, A. Yegishyan, Kh. Manukyan, S. Kharatyan, J. Bossert, "Combustion synthesis of porous Zirconium alloy with controlled properties", XI International Symposium on Self-Propagation High-temperature Synthesis, 2011, Athens, Greece

**2009**-N.H. Amirkhanyan, K. Asatryan, V. Danghyan, Kh. Manukyan, S. Kharatyan, “The effect of Co<sub>3</sub>O<sub>4</sub> amount on the combustion process in the Zr-Co<sub>3</sub>O<sub>4</sub> system”, X International Symposium on Self-Propagation High-temperature Synthesis, 6-11 July, 2009, Tsakhadzor, Armenia, pp 259-260

2009-N.H. Amirkhanyan, V.T. Danghyan, Y.G. Grigoryan, O.M. Niazyan, Kh.V. Manukyan, S.L. Kharatyan, "Phase formation mechanism at chemically activated combustion of Zr+Ni mixtures", X International Symposium on Self-Propagation High-temperature Synthesis, 6-11 July, 2009, Tsakhadzor, Armenia, pp. 143-144