

## Curriculum Vitae

- Name:** Arkadi B. Harutyunyan
- Date of birth:** October 18, 1952
- Sex:** Male
- Citizenship:** Republic of Armenia
- Official Address:** Institute of Chemical Physics of the NAS of Armenia (IChPh NAS RA)  
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E-mail: arkadi@ichph.sci.am,
- Education:** 1969-1974: Department of Chemistry, Yerevan State University  
Ph.D., 1985, Institute of Chemical Physics of the NAS RA
- Area of Expertise:** Kinetics and mechanism of heterogeneous processes; Catalysis; Materials Science, Nanochemistry
- Inst. Affiliations:** 2022 to present: head of research group “Thermochemical Analysis”  
2006 to present: Deputy Director of the IChPh NAS RA  
1985-2006: Senior researcher, IChPh NAS RA  
1979-1985: Junior researcher, in the same place  
1974-1979: Engineer, in the same place
- Projects:** 1999-2001: INTAS # 97-1613, participant  
2000-2002: CRDF # AC2-2051, participant  
2001-2003: INCO-COPERNICUS # ICA-CT-2000-10020, participant  
2003-2004: NFSAT/CRDF CH 121-02/12045, participant  
2005-2007: ISTC # A-649, participant  
2009-2011: ISTC # A-1523, participant  
2013-2015: Project of SCS of RA 13-1D166, participant  
2015-2016: ISTC # A-2123, manager  
2016-2018: Project of SCS of RA 15Ap\_1d(2e)002, PI  
2021-2023: Project of SCS of RA 21T-1D227, PI
- Publications:** More than 50 scientific publications with selected papers:
1. Kh.V. Manukyan, A.V. Egishyan, A.B. Harutyunyan, S.L. Kharatyan. “The mechanism of mass transfer in combustion of the Mo-B system”, *Heat Transfer Research*, 2007, Vol.38, pp. 85-93.
  2. H.A. Chatilyan, S.L. Kharatyan, A.B. Harutyunyan. “Diffusion annealing of Mo/MoSi<sub>2</sub> couple and silicon diffusivity in Mo<sub>5</sub>Si<sub>3</sub> layer”. *Materials Science & Engineering A*, 2007, vol.459, pp.227-232.
  3. A.A. Hambartsumyan, H.L. Khachatryan, A.B. Harutyunyan, S.L. Kharatyan. “Activated Combustion Features in the Mo-Si-C-Promoter System and Synthesis of MoSi<sub>2</sub>-SiC Composite Powders”, *Materials Research Bulletin*, 2007, vol.42, iss.12, pp.2082-2089.
  4. L.E. Vardumyan, H.L. Khachatryan, A.B. Harutyunyan, and S.L. Kharatyan. “Combustion synthesis of TiSi-based intermetallic foams using complex foaming agents”. *J. Alloys and Compounds*, 2008, vol.454, iss.1-2, pp.389-393.
  5. G.N. Sargsyan, A.B. Harutyunyan, “Mechanism of the Decay of the CH<sub>3</sub>CO<sub>3</sub> Radical after Energy Exchange with an Excited CH<sub>2</sub>O Molecule”, *Russian Journal of Physical Chemistry A*, 2018, vol.92, No.8, pp.1467–1472.
  6. G.N. Sargsyan and A.B. Harutyunyan, “Modeling the Effect of Halogen Ions Adsorbed on the Surface of the Reactor in Complex with Water Molecules on Processes of Chain Oxidation of Propane”, *Kinetics and Catalysis*, 2020, vol. 61, No. 4, pp. 552–556.
  7. N.H. Amirkhanyan, Y.G. Grigoryan, M.K. Zakaryan, A.S. Kharatyan, H.T. Gyulasaryan, A.B. Harutyunyan, “Preparation of the Ferromagnetic Intermetallic Compound Ni<sub>3</sub>Fe by Solution Combustion Synthesis”, *Journal of Contemporary Physics (Armenian Academy of Sciences)*, 2023, vol. 58, No. 3, pp.299-304.