Karine Asatryan

Electron Microscopist, Researcher

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Maria Jacobsen street, building 9a
Date of birth 03/01/1962
Armenian
093 373997

Soft Skills

- **Creativity**
- **Teamwork**
- **Adaptability**
- **Ability to work under pressure**
- **Self-motivation**

Languages

Russian Fluent

Armenian Native

English Upper intermediate

Awards

Award winner of Soros Grant

Education

From September 1979 to June 1985

Chemist
Yerevan State University Yerevan, Armenia
Department of Chemistry specialized in Analytical Chemistry

Work experience

Since 1985

Researcher, Electron Microscopy Specialist
Institute of chemical physics, Armenian national academy of sciences Yerevan, Armenia

From 1991 to 1994

Secretary of Armenian Electronic Microscopy Society
Armenian Electronic Microscopy Society Yerevan, Armenia

1992

Three-month training course on SEM
Integrated DEM Facility of Yerkes Research Center, Emory University Atlanta, Georgia, USA

From 2005 to May 2015

Director, Head of HR department
Webb Fontaine LLC Yerevan, Armenia

From 2014 to 2019

Finance Director, Head of HR department
FIP Software LLC Yerevan, Armenia

Professional experience

1985-present

- Specialist in Electron Microscopy at the Physical Chemistry Institute of Chemical Physics, Armenian National Academy of Sciences.
- Operator of Electronic Microscope
- Analysis of Ceramic and other inorganic refractory materials by SEM
- Investigation of kinetics and mechanism of high-temperature interaction of transition metals with silicon, carbon, hydrocarbons, and silane
- Direct or indirect participation to professional seminars in Russia, Kazakhstan, China, Spain and Hawaii.

Publications

1. Харатян С.Л., Воскерчян Г.А., Асатрян К.В., Мержанов А.Г. Кинетика гетерогенного пиролиза силана на поверхности танталовой нити. Химическая физика, 1988, т.7, No.12, с.1713-1718.
2. Воскерчян Г.А., Асатрян К.В., Харатян С.Л., Мержанов А.Г. Закономерности формирования и роста жаростойких силицидных покрытий на тантале. «Жаростойкие, неорганические материалы» Труды XIII Всес. совещания по жаростойким покрытиям. Ленинград, 14-16 апр., 1987. Л., «Наука» 1990, с.179-183.
3. Харатян С.Л., Асатрян К.В., Мержанов А.Г. Кинетика карбидизации тантала. Химическая физика, 1990, т.9, No.8, с.1111-1117.
4. Асатрян К.В., Харатян С.Л. Кинетические закономерности карбидизации ниобия в метане. Кинетика и катализ, 1991, т.32, вып.3, с.564-570.
5. Асатрян К.В., Харатян С.Л. Кинетика карбидизации циркония. Кинетика и катализ, 1992, т.33, вып.4, с.836-843.
6. Асатрян К.В., Харатян С.Л. Экспериментальное исследование кинетических закономерностей карбидизации титана в метане. Хим. физика, 1993, т.12, No.2, стр.197-203.
7. Асатрян К.В., Чатилян А.А., Харатян С.Л. Некоторые кинетические закономерности и механизм карбидизации при высокотемпературном синтезе карбидов переходных металлов. Инженерно-физический журнал, 1993, т.65, No.4, стр.423-427.
8. Kharatyan S.L., Asatrian K.V. and Harutyunyan A.B. The Formation of Bilayer Structure of Monophase Product in a System Metal-Complex Gas. Experiment and Model, Intern. Journal of SHS, 1995, vol.4, No 3, pp.229-235.
9. A.G. Kirakosyan, Ts.A. Adamyan, K.V. Asatryan, S.L.Kharatyan. Reactive Diffusion and Kinetics of Niobium Carbidization in Methane. Proceedings of YII International Conference on Diffusion in Materials (DIMAT 2004), Krakow, Poland, 2004, Defect and Diffusion Forum, Vols.237-240 (2005), pp.879-884.
10. Dolukhanyan, S.K., Aleksanyan, A.G., Ter-Galstyan, O.P. *et al.* Formation of the Ti2Alc Max-Phase in a Hydride Cycle From a Mixture of Titanium and Aluminum Carbohydride Powders. *Russ. J. Phys. Chem. B* **16**, 76–83 (2022). https://doi.org/10.1134/S1990793122010043
11. G.N. Muradyan, S..K. Dolukhanyan, A..G. Aleksanyan, O..P. Ter-Galstyan, N..L. Mnatsakanyan, K..V. Asatryan, S..S. Mardanyan, A..A. Hovhannisyan, Synthesis in hydride cycle of Ti–Al–C based MAX phases from mixtures of titanium carbohydrides and aluminum powders, Ceramics International, Volume 49, Issue 14, Part B, 2023, Pages 24171-24178, ISSN 0272-8842,https://doi.org/10.1016/j.ceramint.2022.11.125(https://www.sciencedirect.com/science/article/pii/S0272884222041475)
12. Muradyan, G.N., Dolukhanyan, S.K., Ter-Galstyan, O.P. *et al.* Synthesis in Hydride Cycle of Near-α Ti–8Al–1Mo–1V Alloy. *Metall Mater Trans A* **54**, 4272–4282 (2023). https://doi.org/10.1007/s11661-023-07161-2
13. A.A. Hovhannisyan, S.K. Dolukhanyan, O.P. Ter-Galstyan, N.L. Mnatsakanyan, K.V. Asatryan, S.E. Mnatsakanyan, S.S. Mardanyan, G.N. Muradyan, Synthesis of non-stoichiometric carbides and carbohydrides of Ti and Ti-Nb using self-propagating high-temperature synthesis technique, Materialia Volume 30, 2023,101820, ISSN 2589-1529, https://doi.org/10.1016/j.mtla.2023.101820(https://www.sciencedirect.com/science/article/pii/S2589152923001473)
14. Tsovinar Ghaltaghchyan, Hayk Khachatryan, Karine Asatryan, Viktorya Rstakyan, Marina Aghayan, Effect of additives on selective laser sintering of silicon carbide,Boletín de la Sociedad Española de Cerámica y Vidrio, 2023, ISSN 0366-3175,https://doi.org/10.1016/j.bsecv.2023.01.001(https://www.sciencedirect.com/science/article/pii/S0366317523000067)