

CURRICULUM VITAE

Name, Surname: Sergii LEBEDIEV

Date of Birth: March 7, 1980
Place of Birth: Kharkov, Ukraine
Marital status: married
Present Position: Senior Lecturer

Education:

MS in Physics: V.N. Karazin Kharkov National University, Kharkov, Ukraine,
Diploma: XA №: 19856609, July 5, 2002

Academic degrees:

PhD in Phys & Math, Kharkov, Ukraine, 2015;
Diploma: DK №: 031519, September 29, 2015.

Area of scientific researches:

Fundamental area: experimental physics of mechanical properties of metal and alloy, low temperature physics, solid state physics,.

Application area: metals and composite which will be apply in ITER.

Lecture courses:

1. Drawings
2. Use of PCs in scientific research
3. Computer modeling of physical processes
4. Physics course electricity and magnetism

Projects, grants, awards:

Project manager and participants partner project STCU between V.N. Karazin Kharkiv National University and SCK-CEN Belgium nuclear center, Mol, Belgium
P679 «Plastic deformation of tungsten wires» 2016-2017
P715 «Camera instrumented test development» 2017-2018
P725 «Cyclic fatigue test of tungsten wires» 2018-2019
P740 «Camera instrumented data acquisition for fracture toughness tests» 2019- 2020
P715a «Camera instrumented test development» 2022-2022
P725b «High temperature testing, fatigue, torsion and shear testing of tungsten- and copper-based materials» 2021-2025

Scientifically-administrative activity:

Member of editorial board of The journal of V.N. Karazin Kharkiv National University. Series “Physics”.

Supervisor more than 25 Bachelor and Master theses.

Contact information:

1. Chair of Low Temperatures Physics and Chair of Experimental Physics , School of Physics
V. N. Karazin Kharkiv National University



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Publications:

About 30 publications and over 40 reports at the international Conferences.

LIST OF SELECTED PUBLICATIONS of S.V. LEBEDIEV for 2009-2019

1. D. Terentyev Plastic deformation of recrystallized tungsten-potassium wires: Constitutive deformation law in the temperature range 22–600 °C / D. Terentyev, J. Riesch, S. Lebediev, T. Khvan, J.W. Coenen // International Journal of Refractory Metals and Hard Materials, Volume 73, June 2018, Pages 38-45.
2. D. Terentyev Mechanical properties of as-fabricated and 2300°C annealed tungsten wire tested up to 600°C / D. Terentyev, J. Riesch, S. Lebediev, A. Bakaeva, J.W. Coenen // International Journal of Refractory Metals and Hard Materials, Volume 66, August 2017, Pages 127-134.
3. O.S. Mazitov The influence of electrical current pulses on the plastic deformation of copper / O.S. Mazitov, S.V. Lebediev // Вісник ХНУ, серія «Фізика» – 2016. – № 25. – С. 12 – 15.
4. D. Terentyev, J. Riesch, S. Lebediev, T. Khvan, J.W. Coenen Plastic deformation of recrystallized tungsten-potassium wires: Constitutive deformation law in the temperature range 22–600 °C // International Journal of Refractory Metals and Hard Materials, Volume 73, June 2018, Pages 38-45;
5. D. Terentyev, J. Riesch, S. Lebediev, T. Khvan, A. Dubinko, A. Bakaeva Strength and deformation mechanism of tungsten wires exposed to high temperature annealing: Impact of potassium doping // International Journal of Refractory Metals and Hard Materials, Volume 76, November 2018, Pages 226-233;
6. V.I. Dubinko, A.N. Dovbnya, V.A. Kushnir, I.V. Khodak, V.P. Lebedev, V.S. Krylovskiy, S.V. Lebedev, V.F. Klepikov, *Impact of electron irradiation on the deformation of the alloy hopping Al-3%Mg*, Problems of atomic science and technology №5 5 Series: Physics of radiation effect and radiation materials science, Kharkov, 2010 36-42.
7. V.I. Dubinko, A.N. Dovbnya, V.A. Kushnir, V.V. Mitrochenko, I.V. Khodak, V.P. Lebedev, V.S. Krylovskiy, S.V. Lebedev, V.F. Klepikov *Plastic deformation of aluminum in continuous electron irradiation*, Problems of atomic science and technology №5 Series: Physics of radiation effect and radiation materials science, Kharkov, 2010 (p.43-49)
8. V.I. Dubinko, A.N. Dovbnya, V.A. Kushnir, V.V. Mitrochenko, I.V. Khodak, V.P. Lebedev, V.S. Krylovskiy, S.V. Lebedev, V.F. Klepikov *Exposure to high-energy electron beam on the plastic deformation of metals*, Problems of atomic science and technology №3 Series: Nuclear Physics Investigations, Kharkov, 2010 140-144.
9. N.I. Ayzackiy, A.N. Dovbnya, V.I. Dubinko, V.F. Gyglo, A.I. Kosoy, V.A. Kushnir, V.V. Mitrochenko, S.A. Peregogin, D.L. Stepin, I.V. Khodak, V.P. Lebedev, V.S. Krylovskiy, S.V. Lebedev *Apparatus for studying the impact of the electron flux on the deformation of metals*, Problems of atomic science and technology №3 Series: Nuclear Physics Investigations, Kharkov, 2010 145-149.