

CURRICULUM VITAE

Yanovsky Vladimir V.



Affiliation and official address:

Head of Department of Theory of Condensed Matter, Institute for Single Crystals NAS of Ukraine
61072 Ukraine, Kharkiv, Nauky Ave. 60.
Professor of Department of Artificial Intelligence and Software
V.N. Karazin Kharkiv National University
61022 Ukraine, Kharkiv-22, Svobody Sq. 4.

E-mail: yanovsky@isc.kharkov.ua, yanov50@gmail.com, v.v.yanovsky@karazin.ua

Education (degrees, dates, universities)

- 1973 – M. S. Kharkiv State University, (School of Physics and Technology(Phystech) USSR
- 1983 – Ph. D Space Research Institute Academy of Science of the USSR (Theoretical Physics)
- 1996 – Dr. Sc. Institute for Single Crystals NASU, Kharkiv, Ukraine (Theoretical Physics)
- 2006 Diploma of Senior Research Scientist (Solid state physics), Institute for Single Crystals NASU, Kharkiv
- 2013 - Prof. Professor (Theoretical Physics), Institute for Single Crystals NASU, Kharkiv, Ukraine

Career/Employment (employers, positions and dates)

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| 1973-1974 | Engineer | Kharkiv Institute of Physics and Technology (KIPT), USSR |
| 1974-1984 | Junior Research Scientist | National Science Center “Kharkiv Institute of Physics and Technology (KIPT)”, USSR |
| 1985-1990 | Senior Research Scientist | National Science Center “Kharkiv Institute of Physics and Technology (KIPT) , USSR |
| 1991-1994 | Head of the Laboratory | Institute of Electrophysics and Radiational Technologies NASU, Kharkiv, Ukraine |
| 1995-1996 | Head of the Laboratory | Institute for Single Crystals NASU, Kharkiv, Ukraine |
| 1996-date | Head of Department | Institute for Single Crystals NASU, Kharkiv, Ukraine |

Main field of activity and current research interest

Nonlinear physics, strongly nonequilibrium systems, structure formation in chaotic media, turbulence theory, plasma physics, defects in crystals, solid state physics.

Honors, Awards, Fellowships, Membership of Professional Societies

NAS of Ukraine Award “For Professional Achievements” (2010), NAS of Ukraine Award “For Scientific Achievements” (2018), NAS of Ukraine Award “For Training of Researchers” (2020)

Publications

15- Books, more than 300 original articles

Scopus h-index:12

<https://www.scopus.com/authid/detail.uri?authorId=7003273794>;

<https://orcid.org/0000-0003-0461-749X>.

Selected recent publications:

- (1) A.V.Tur, **V.V.Yanovsky**, Coherent Vortex Structures in Fluids and Plasma, Springer Series in Synergetics, 2017, 306p, ISBN: 978-1-53618-730-4.
- (2) Yu.L.Bolotin, A.V.Tur, **V.V.Yanovsky**, Chaos: Concepts, Control and Constructive Use, Series: Understanding Complex Systems, Shpringer, 2016, 281p., ISBN: 978-3-319-42496-5
- (3) D. M. Naplekov, **V. V. Yanovsky**, Internal chaotic sea structure and chaos-chaos intermittency in Hamiltonian systems, Phys. Rev. E, 103, 022209, 2021, DOI: <https://doi.org/10.1103/PhysRevE.103.022209>.
- (4) D.M. Naplekov, **V. V. Yanovsky**, Thin structure of transit time distributions of open billiards, Phys. Rev. E 97, 012213 (2018) DOI: 10.1103/PhysRevE.97.012213.
- (5) V.O.Kharchenko, D.O.Kharchenko, **V.V.Yanovsky**, Nano-sized adsorbate structures formation in anisotropic multilayer system, Nanoscale Research Letters, 12:337(8), 2017,DOI: 10.1186/s11671-017-2096-7
- (6) D.M.Naplekov, **V.V.Yanovsky**, Billiard with a handle, Phys. Rev. E, 94, 042225(8), 20016, DOI: 10.1103/PhysRevE.94.042225 .
- (7) M.A.Ratner, A.V.Tur, **V.V.Yanovsky**; Peculiarities of nanoparticle reflection from a barrier, Journal of Computational and Theoretical Nanoscience, v.12, p.589-594, 2015, DOI: 10.1166/jctn.2015.3771
- (8) D.M.Naplekov, V.P.Seminogenko, **V.V.Yanovsky**;The equation of state of an ideal gas with nonergodic behavior in two connected vessels, Physical Review E 89, 012920(7), 2014, DOI: 10.1103/PhysRevE.89.012920
- (9) A.Tur, G.Fruit, P.Louarn, **V.Yanovsky**, Kinetic theory of the electron bounce instability in two dimensional current sheets—Full electromagnetic treatment, Physics of Plasmas, 21, 032113(17), 2014, DOI: 10.1063/1.4868422
- (10) D.M.Naplekov, A.V.Tur, **V.V.Yanovsky**, Scattering by the boundary with complex structure, Phys. Rev. E, vol.87, No.4, 042901(9), 2013, DOI: 10.1103/PhysRevE.87.042901.
- (11) S.V.Naydenov, D.M.Naplekov, V.V. Yanovsky, New mechanism of chaos in triangular billiards, JETP Letters,v.98,8,p.496-502, 2013, DOI: 10.1134/S002136401321008X.
- (12) S.V.Slipushenko, A.V.Tur, **V.V.Yanovsky**, Scattering of particles with internal degrees of freedom, Journal of Experimental and Theoretical Physics, vol.117, 2, p.274-292, 2013, DOI: 10.1134/S1063776113080207