

CURRICULUM VITAE

Kopp Michael



Affiliation and official address:

Senior Researcher, Department of Theory of Condensed Matter, Institute for Single Crystals NAS of Ukraine

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Education (degrees, dates, universities)

1986 – M. S. Tajik State University, Tajikistan (Physics)
1986-1988 – PhD Student Tajik State University, Tajikistan (Plasma physics and chemistry)
1988-1989 – PhD Student Kharkiv State University, Ukraine (Plasma physics and chemistry)
1992 – Ph. D Kharkiv State University, Ukraine (Plasma physics and chemistry)

Career/Employment (employers, positions and dates)

1989-1990	Junior Research Scientist	Radio Engineering Measurements Research Institute, Kharkov, USSR
1991-1993	Engineer	Institute of Electrophysics and Radiation Technologies NASU, Kharkiv, Ukraine
1993-	Research Scientist	Institute of Electrophysics and Radiation Technologies NASU, Kharkiv, Ukraine
2016-2020	Research Scientist	Institute for Single Crystals NASU, Kharkiv, Ukraine
2021-date	Senior Research Scientist	Institute for Single Crystals NASU, Kharkiv, Ukraine

Main field of activity and current research interest

Nanofluids, Defects in nanoparticles, Fluid Mechanics, Nonlinear Dynamics, Chaos Theory, Fractals, Nonlinear Physics

Publications:

1- Books, 68 original articles,

Scopus *h*-index:3 ;

<https://www.scopus.com/authid/detail.uri?authorId=8427903400>;

<https://orcid.org/0000-0001-7457-3272>

Selected recent publications:

(1) **M.I. Kopp**, A.V. Tur, V.V. Yanovsky, *Large-scale convective instability in an electroconducting medium with small-scale helicity*, Journal of Experimental and Theoretical Physics, 2015, 120, p.733-750, <https://doi.org/10.1134/S1063776115040081>, **Q2**.

(2) V.V. Yanovsky, A.V. Tur, **M.I. Kopp**, *Large-Scale Magnetic and Vortex Structures in a Turbulent Medium*, East European Journal of Physics, 2016, 3, p. 4-22, <https://doi.org/10.26565/2312-4334-2016-1-01>.

(3) **M.I. Kopp**, A.V. Tur, V.V. Yanovsky, *Nonlinear vortex dynamo in a rotating stratified moist atmosphere*, Journal of Experimental and Theoretical Physics, 2017,124, p.1010-1022, <https://doi.org/10.1134/S1063776117060127>, **Q2**.

(4) **M.I. Kopp**, A.V. Tur, V.V. Yanovsky, *Magnetic Convection in a Nonuniformly Rotating Electroconducting Medium*, Journal of Experimental and Theoretical Physics, 2018, 127, p.1173-1196, <https://doi.org/10.1134/S106377611812018X>, **Q2**.

- (5) V.V. Yanovsky, **M.I. Kopp**, M.A. Ratner, *Evolution of vacancy pores in bounded particles*, Functional Materials, 2019,26, p.131-151, <https://doi.org/10.15407/fm26.01.131>.
- (6) **M.I. Kopp**, A.V. Tur, V.V. Yanovsky, *Instabilities in the non-uniformly rotating medium with temperature stratification in the external uniform magnetic field*, East European Journal of Physics, 2019,1, p.4-33, <https://doi.org/10.26565/2312-4334-2020-1-01>.
- (7) **Michael I. Kopp**, Anatoly V. Tur, Konstantin N. Kulik, Volodymyr V. Yanovsky, *Nonlinear dynamo in obliquely rotating stratified electroconductive fluid in an uniformly magnetic field*, East European Journal of Physics, 2020,1, p.5-36, <https://doi.org/10.26565/2312-4334-2020-1-01>.
- (8) **M.I. Kopp**, A.V. Tour, V.V. Yanovsky, *Magnetic Convection in a Nonuniformly Rotating Electroconducting Medium under the Action of External Magnetic Field*, Journal of Experimental and Theoretical Physics,2020, 130(5), p. 759-782, <https://doi.org/10.1134/S1063776120050052>, **Q2**.
- (9) V.V. Yanovsky, **M.I. Kopp**, M.A. Ratner, *Gas-filled pore in bounded particle*, Functional Materials, 2020, 27, p.533-558, <https://doi.org/10.15407/fm27.03.533>.
- (10) **M.I. Kopp**, A.V. Tur, V.V. Yanovsky, *Magnetic convection in a nonuniformly rotating electrically conductive medium in an external spiral magnetic field*, Fluid Dynamics Research, 2021, 53, 015509, DOI: 10.1088/1873-7005/abd8dc.