**Apl Prof. Dr.-Sc. habil. Ilia Roisman**

**Fachgebiet Strömungslehre und Aerodynamik**

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**Academic education with degrees**

1981 - 1987 Mechanical Engineering, Polytechnic institute of Kharkiv, Ukraine, USSR (with honors), M. Sc.

1991 – 1994 Mechanical Engineering, Technion – IIT, Israeli Institute of Technology, Haifa, Israel, M. Sc.

**Scientific degrees**

1995 – 1998 Dr.-Sc., Mechanical Engineering, Technion – IIT, Haifa, Israel

2006 Habilitation, Mechanical Engineering, Technische Universität Darmstadt, venia legendi Strömungsmechanik

**Professional career from graduation**

1995 - 1998 Research Fellow and stipendiat, Technion – IIT, Israeli Institute of Technology, Haifa, Israel ”

1998 - 2003 Research Fellow and stipendiat (A v Humboldt), Fachgebiet Strömungslehre und Aerodynamik, Technische Universität Darmstadt, Darmstadt

2003 – 2004 Senior Lecturer, Faculty of Mechanical Engineering, Technion – IIT, Haifa, Israel

seit 2004 Research Fellow, Fachgebiet Strömungslehre und Aerodynamik, Technische Universität Darmstadt, Darmstadt

**Memberships/cooperation in committees**

Member of Editorial Boards: *Atomization and Sprays* (seit 2008), *Experiments and Fluids* (seit 2009)

**Selected publications (Scopus: 161 publications, h-index: 37)**

1. Schmidt J. B., Hofmann J., Tenzer F. M., Breitenbach J., Tropea C. & Roisman I. V. (2021). Thermosuperrepellency of a hot substrate caused by vapour percolation. *Communications Physics*, **4**:1-8.
2. Breitenbach, J., Roisman, I. V., & Tropea, C. (2018). From drop impact physics to spray cooling models: a critical review*. Experiments in Fluids*, **59**:1-21.
3. Yarin A. L. Roisman I. V. & Tropea C. (2017). *Collision phenomena in liquids and solids*. Cambridge University Press.
4. Roisman, I. V. (2009). Inertia dominated drop collisions. II. An analytical solution of the Navier–Stokes equations for a spreading viscous film. Physics of Fluids, 21(5), 052104.
5. Roisman, I. V., Rioboo, R., & Tropea, C. (2002). Normal impact of a liquid drop on a dry surface: model for spreading and receding. *Proceedings of the Royal Society of London. Series A: Mathematical, Physical and Engineering Sciences*, *458*(2022), 1411-1430.