Short Curriculum Vitae Prof. Dr. Steffen Hardt

Born Oct. 9, 1966 in Gießen/Germany
Nationality: German

1986	Abitur at Liebigschule Gießen
1986-1992	Studies of Physics at the Universität Gießen and the University of Washington, Seattle/USA
1992	Diploma in Theoretical Physics under the supervision of Prof. Dr. U. Mosel, Universität Gießen
1996	Ph.D. in Theoretical Physics supervised by Prof. Dr. U. Mosel, Universität Gießen
1996-1997	Postdoc at the Institute for Theoretical Physics, Universität Gießen
1997-1999	Research Associate at the Institut für Mikrotechnik Mainz (IMM)
1999-2001	Head of the Simulation Group at IMM
2001-2003	Head of the Fluidics and Simulation Department at IMM
2004-2006	Lecturer and Research Associate at the Fachgebiet Technische Thermodynamik, Mechanical Engineering Department, TU Darmstadt
2006-2009	Full Professor for Nano and Micro Process Technology at the Mechanical Engineering Department, Universität Hannover
Since 2009	Full Professor for Nano- and Microfluidics at the Mechanical Engineering Department, TU Darmstadt

Most important awards, honors and services to the scientific community

1992	Wilhelm-und-Else-Heraeus Award for students of Physics
2005	Offered a Professorship (W2) in Micro Fluid Technology, Universität Rostock, declined
Since 2014	Associate Editor Microfluidics and Nanofluidics
2015	Winner of the nationwide Science4Life contest, “Ideenphase”

10 Most Important Publications

[1] M. Dietzel, S. Hardt: *Thermoelectricity in confined liquid electrolytes*, Physical Review Letters **116** (2016) 225901.

[2] A. Dörr, S. Hardt, H. Masoud, H. A. Stone: *Drag and diffusion coefficients of a spherical particle attached to a fluid interface*, Journal of Fluid Mechanics **790** (2016) 607–618.

[3] A. Eifert, D. Paulssen, S. N. Varanakkottu, T. Baier, S. Hardt: *Simple fabrication of robust water-repellent surfaces with low contact-angle hysteresis based on impregnation*, Advanced Materials Interfaces **1** (2014) 1300138.

[4] C. Schönecker, T Baier, S. Hardt: *Influence of the enclosed fluid on the flow over a microstructured surface in the Cassie state*, Journal of Fluid Mechanics **740** (2014) 168-195.

[5] S. N. Varanakkottu, S. D. George, T. Baier, S. Hardt, M. Ewald, M. Biesalski: *Particle manipulation based on optically controlled free surface hydrodynamics*, Angewandte Chemie International Edition **52** (2013) 7291-7295.

[6] T. Baier, G. Dupeux, S. Herbert, S. Hardt, D. Quéré: *Propulsion mechanisms for Leidenfrost solids on ratchets*, Physical Review E **87** (2013) 021001(R).

[7] T. Hahn, S. Hardt: *Size-dependent detachment of DNA molecules from liquid-liquid interfaces*, Soft Matter **7** (2011) 6320-6326.

[8] S. Hardt, F. Wondra: *Evaporation Model for interfacial flows based on a continuum-field representation of the source terms*, Journal of Computational Physics **227** (2008) 5871-5895.

[9] F. Jiang, K. S. Drese, S. Hardt, M. Küpper, F. Schönfeld: *Helical flows and chaotic mixing in curved microchannels*, AIChE Journal **50** (2004) 2297-2305.

[10] V. Hessel, S. Hardt, H. Löwe, F. Schönfeld: *Laminar mixing in interdigital micromixers with different mixing chambers – Part 1: Experimental characterization*, AIChE Journal **49** (2003) 566-577.