Short CV

Barbara Wagner

Address

Weierstrass-Institute for Applied Analysis and Stochastics
Mohrenstraße 39
10117 Berlin
Germany

E-mail: Barbara.Wagner@wias-berlin.de
URL: www.wias-berlin.de/research/rgs/fg7

Education

1995-1999	Habilitation in Mathematics (Dr. rer. nat. habil.), Zentrum Mathematik, Technische Universität München
1986-1989	Ph.D. in Applied Mathematics (Advisor: Prof. J. D. Cole), Dept. Mathematical Sciences, Rensselaer Polytechnic Institute (RPI), NY, USA
1983-1985	M.A. in Mathematics, Dept. of Mathematics, Washington University, St. Louis, USA
1982-1983	Bafög-Scholarship for study abroad, Dept. of Mathematics, La Trobe University, Melbourne, Australia
1979-1981	Vordiplom in Mathematics (1981), Fachbereich Mathematik, Universität Kassel

Employment

Since 2016	Head(provisional) of Research Group 7, WIAS, Berlin
2011-2016	Professor for Mathematical Methods for Photovoltaics, Institute for Mathematics, Technische Universität Berlin
2006	Visiting Professor, Institute for Mathematics, Technische Universität Berlin
2001-2011	Senior Research Associate, Privatdozentin and Deputy Head of Research Group 7, WIAS, Berlin
2000-2001	Research Associate, Center of Advanced European Studies and Research (Caesar), Bonn
1995-2000	Research Associate and Privatdozentin, Zentrum Mathematik, Technische Universität München
1992-1995	Visiting Assistant Professor, Department of Mathematics and Statistics, New Jersey Institute of Technology (NJIT), USA
1991-1992	Visiting Assistant Professor, Department of Mathematics, Univerity of Arizona, USA
1989-1991	Postdoctoral Fellowship, Center for Nonlinear Studies, Los Alamos National Laboratory, USA

Publications (Max. 10)

Barbara Wagner

1. Ahnert, T., Münch, A. & Wagner, B., 'Models for the Two-Phase Flow of Concentrated Suspensions', European Journal of Applied Mathematics, https://doi.org/10.1017/S095679251800030X, 2018

2. Meca, E., Münch, A. & Wagner, B., 'Localized Instabilities and Spinodal Decomposition in Driven Systems in the Presence of Elasticity', Phys. Rev. E, 97, 012801, 2018

3. Dziwnik, M., Münch, A. & Wagner, B., 2017, 'An Anisotropic Phase-Field Model for Solid-State Dewetting and its Sharp-Interface Limit', *Nonlinearity*, Vol. 30(4), 1465, doi.org/10.1088/1361-6544/aa5e5d

4. Münch, A., Wagner, B., Cook, L. P., Braun, R.R., 'Apparent Slip for an Upper Convected Maxwell fluid', *SIAM J. Appl. Math.*, 77(2), 537564, 2017 (28 pages)

5. Hennessy, M., Burlakov, V., Münch, A. , Goriely, A., Wagner, B., 2015, ' Controlled Topological Transitions in Thin Film Phase Separation', *SIAM Journal for Applied Mathematics*, 75, 38-60.

6. Bäumchen, O., Marquant, L., Blossey, R., Münch, A., Wagner, B., & Jacobs, K., 2014, 'Influence of Slip on the Rayleigh–Plateau Instability in Dewetting Viscous Films', *Phys. Rev. Lett.*, 113, 014501.

7. Schmidt, J., Prignitz, R., Peschka, D., Münch, A., Bänsch, E., Wagner, B. et al., 2012, 'Conductivity in Nonpolar Media: Experimental and Numerical Studies on Sodium AOT-hexadecane, Lecithin-Hexadecane and Aluminum(III)-3,5-Diisopropyl Salicylate-Hexadecane Systems, *Journal of Colloid and Interface Science*, 386(1), 240-251.

8. Korzec, M.D., P.L. Evans, P.L., Münch, A. & Wagner, B., 2008, 'Stationary Solutions of Driven Fourth- and Sixth-Order Cahn-Hilliard Type Equations', *SIAM Journal of Applied Mathematics*, 69, 348-374.

9. Münch, B., Please, C. & Wagner, B., 2011, 'Spin Coating of an Evaporating Polymer Solution', *Phys. Fluids*, 23, 102101.

10. Afanasiev, K., Münch, A. & Wagner, B., 2007, 'On the Landau–Levich Problem for Non-Newtonian Liquids', *Physical Review E*, 76, 036307.