1 Journal publications

1999 B. Hof, P.G.J. Lucas, T.Mullin, "Flow state multiplicity in convection", *Physics of Fluids*, **11**, 2815 (1999)

2003 B.Hof, A.Juel & T.Mullin, "Magnetohydrodynamic damping of convective flows in gallium", *J.Fluid Mech.*, **482**, pp 163-179

B.Hof, A.Juel & T.Mullin, " Scaling of the turbulence transition threshold in a pipe" *Phys. Rev. Lett.*, **91**, 244502

2004 **Press Review on above article:**
"New Experiments Set the Scale for the Onset of Turbulence in Pipe Flow"
Physics Today, Febuary 2004.

B.Hof, A.Juel, T.Mullin, L.J. Zhao, D. Henry & H. Ben Hadid
"Stability of convective flows in molten gallium."
J. Fluid Mech., **515**, pp 391-413

B.Hof, C.W.H. van Doorne, J. Westerweel, F.T.M. Nieuwstadt,
H. Faisst, B. Eckhardt, H.Wedin, R.Kerswell, F. Waleffe
"Experimental observation of nonlinear travelling waves in turbulent pipe flow"
Science, **305**, Issue90, pp 1594-1598

Press Review on above article in:
Scientific American, Physics World, Science Perspectives, Baltimore Sun, etc.

2005 B.Hof, A.Juel & T.Mullin
"Magnetohydrodynamic damping of oscillations in low Prandtl number convection",*J. Fluid. Mech.*, **545**, pp 193-201

B.Hof, C.W.H. van Doorne, J. Westerweel, F.T.M. Nieuwstadt,
" Turbulence regeneration in pipe flow at moderate Reynolds numbers threshold in a pipe" *Phys. Rev. Lett.*, **95**, 214502

2006 B. Hof, J. Westerweel, T.M. Schneider & B. Eckhardt,
"Finite Lifetime of Turbulence in Pipe Flow."
Nature, **443**, 05089, pp 59-62.

Press Review on above article in:
Nature Podcast, Nature News and Views, USA Today, Frankfurter Allgemeine Zeitung and various Dutch newspapers and Radio channels etc.

2007 B. Eckhardt, T.M. Schneider, B. Hof, J. Westerweel,
"Turbulence Transition in Pipe flow", *Annu. Rev. Fluid Mech.*
39, pp 447-468.

2008 B.Hof, A. de Lozar, D.J. Kuik, J. Westerweel, " Repellor or attractor? Selecting the dynamical model for the onset of turbulence in pipe flow." *Phys. Rev. Lett.*, **101**, 214501

2009 A. de Lozar, B.Hof, "An experimental study of the decay of turbulent puffs in pipe flow ",*Proc. Royal. Soc. A*, **367**, pp 589-599

2010 M. Avila, A. Willis, B.Hof "On the transient nature of localized pipe flow turbulence", *J. Fluid. Mech.*, **646**, pp 127-136

B. Hof, A. de Lozar, M. Avila, X. Tu, T.M. Schneider "Eliminating turbulence in spatially intermittent flows" *Science* **327**, pp 1491-1494. ,

Press Review on above article in:
New York Times, Frankfurter Allgemeine Zeitung, Die Welt, Physics Today etc.

2011 D. Samanta, A. de Lozar & B.Hof "Experimental investigation of laminar turbulent intermittency in pipe flow", *J. Fluid Mech.*, **681**, 193-204

K. Avila, D. Moxey, A. de Lozar, M. Avila, D. Barkley & B. Hof "The onset of turbulence in pipe flow", *Science* , **333**, 192

2012 T. Lapp, M. Rohloff, J. Vollmer & B. Hof "Particle tracking for polydisperse sedimenting droplets in phase separation", *Exp. Fluids*, **52**, 1187

A. de Lozar, F. Mellibovsky, M. Avila & B. Hof, "Experimental observation of the edge state in pipe flow", *Phys. Rev. Lett.*, **198**, 214502

J. Blaschke, T. Lapp, B. Hof & J. Vollmer "Breath figures: nucleation, growth coalescence and the size distribution of droplets", *Phys. Rev. Lett.*, accepted

M. Holzner, B. Song, M. Avila & B. Hof, "Lagrangian approach to laminar/turbulent interfaces in transitional pipe ow", *submitted*

D. Samanta, Y. Dubief, M. Holzner, C. Schäfer, A. Morozov, C. Wagner & B. Hof, "Elasto-inertial turbulence " *submitted*

2 Outreach and laymen publications

My research has been discussed extensively in the media (see 'Press Review' in the publication section). I have also given talks to school classes at open days at the University of Manchester. In addition I have written several manuscripts for science magazines:

2006 B. Eckhardt, B. Hof, H. Faisst, Turbulenzübergang in der Rohrströmung: Die Lösung eines alten Rätsels, Physik in unserer Zeit, 37, 212-218

2010 B. Hof, T.M. Schneider, Turbulenz bändigen, Physik in unserer Zeit, 41, 163-164

2012 K. Avila, B. Hof, Der kritische Punkt der Rohrströmungen, Spektrum der Wissenschaft, p. 16-18, 3/2012