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## Curriculum Vitae: Roberto Verzicco

### Education

- Jul. 1991: Degree in Aeronautical Engineering, *University of Rome “La Sapienza”* (“cum Laude”).
- May 1994: PhD in Aerospace Engineering at the *University of Rome “La Sapienza”*

### Current and Previous Positions

- 1994 – 1997: Assistant Professor in the Department of Mechanics and Aeronautics *University of Rome “La Sapienza”* (Italy).
- 1997 – 2003: Associate Professor of Fluid Dynamics in the Department of Mech. Engineering *Politecnico di Bari*
- 2003 – 2007: Professor of Fluid Dynamics in the Department of Mech. Engineering *Politecnico di Bari*
- From Nov. 2007 on: Professor of Fluid Dynamics in the Department of Industrial Engineering *University of Rome “Tor Vergata”*
- From Nov. 2018 on: Professor of Continuum Mechanics at the *Gran Sasso Science Institute* (AQ).

### Fellowships and Awards

- Fellow of the American Physical Society, Division of Fluid Dynamics, since 2013.
- Fellow of EUROMECH since 2012.
- Wim Nieuwpoort Award for Scientific Computing, 2012 (with R. Ostilla-Monico, E. van del Poel and D. Lohse).
- Frenkiel Award from the American Physical Society, 2005.

### Research Interests

- Computational and Experimental Fluid Dynamics.
- Direct Numerical Simulation of Turbulence.
- Turbulence Modelling.
- Complex-Geometry Flows and Fluid/Structure Interaction.
- Heat Transfer and Wall Turbulence (Rayleigh-Bénard)
- Biofluidmechanics. and Taylor-Couette Flows).

### Teaching Activities

- 1998-2007 ‘Fluid-dynamics’ for BSc Mechanical Engineering of Politecnico di Bari
- 2003-2007 ‘Turbulence’ for MSc Mechanical Engineering of Politecnico di Bari
- 1998-2007 ‘Turbulence Dynamics and Modeling’ for PhD of Mechanical Engineering of Politecnico di Bari
- 2007-present ‘Gasdynamics and Combustion’ (presently ‘Gasdynamics’) for MSc Mechanical Engineering of Università di Roma ‘Tor Vergata’.

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- 2009–present ‘Fluid Mechanics’ for BSc and MSc Mechanical Engineering and Energy Engineering of Università di Roma ‘Tor Vergata’.
  - 2009–present ‘Computational Methods for Mechanical Engineering’ for PhD in Mechanical Engineering at Università di Roma ‘Tor Vergata’.
  - 2010–2018 ‘Turbulence Dynamics and Modelling’ for MSc Mechanical and Energy Engineering at Università di Roma ‘Tor Vergata’.
  - 2013–present ‘Mechanics of Biological Systems’ for BSc Medical Engineering at Università di Roma ‘Tor Vergata’.
  - 2014–present ‘Continuum Mechanics’ for PhD school GSSI (Gran Sasso Science Institute) of L’Aquila (Italy).

### **Key numbers from Google Scholar (SCOPUS), December, 2019)**

- Number of published refereed papers: 184 (184)
- Hirsch-index:  $H = 41$  (35)
- m-index =  $H/(\# \text{ of years after PhD}) = 1.52$  (1.22)
- Citations in 2018: 875 (647)
- Total citations: 8313 (5551)
- Average citations/article: 43.6 (29.1)
- Number of (present) PhD students + PostDocs of Verzicco’s group: 10+5
- Number of finished PhD theses supervised: 32
- Total external funding received as PI in last 10 years:  $\approx 3\text{M}\text{€}$

### **Editorial Boards**

- Associate Editor of *Journal of Fluid Mechanics* 2013–present (Cambridge University Press),
- Section Editor of *Applied Mechanics Reviews* (ASME) 2012–2018 (ASME),
- Advisory Editor of *Flow, Turbulence & Combustion* 2009–present (Springer),
- Member of the Advisory Board of *Acta Mechanica* 2008–present (Springer).
- Member of the Advisory Board of *Computers and Fluids* 2008–present (Elsevier).

### **International Scientific Boards**

- Chairman (2015–present) and Member (2010–2015) of the EUROMECH “European Fluid Mechanics Conference Committee”.
- Member of the CFD core–committee of ECCOMAS (2014–present).
- Member of the EUROMECH Council (2016–present).
- Chair of the Corrsin Award 2020 for the American Physica Society.

### **National Scientific Boards**

- 2016–2018 Member of the National Panel for the Abilitation to Associate and Full Professor in Naval, Aeronautics and Aerospace Engineering

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- 2009–2013 Member of the Evaluation and Assessment committee of the University of Rome “Tor Vergata”
  - 2009–present Chairman of the degree program in “Engineering Sciences” (taught in English) University of Roma “Tor Vergata”

### **Meeting Organization (most recent)**

- Chair of the 9<sup>th</sup> European Fluid Mechanics Conference in Rome 9–13 September, 2012.
- Organization and Chair of the International Conference on “Vortical Structures and Wall Turbulence” 19–20 September, 2014.
- Organization (with D. Lohse) of RBC2018, on “International Conference on Rayleigh–Bénard Turbulence”, (May 14–18, 2018, Enschede)

### **Service to the Community within last 10 years (selection)**

- Evaluator for PRACE (Partnership for Advanced Computing in Europe)
- Evaluator for ERC (European Research Council)
- Evaluator for CERG (Research Grants Council Hong Kong)
- Evaluator for CRG (Competitive Research Grant of KAUST, Saudi Arabia)
- Evaluator for ANR (Agence Nationale de la Recherche, France)
- Evaluator for Natural Sciences and Engineering, Research Council of Canada
- Member of the Board for the Evaluation of research proposals of the Swedish Research Council
- Evaluator of research proposals and projects for Italian Research Agencies (Prin, Firb, POR)
- Member of PhD defense committees in Italy, France, Germany and the Netherlands
- Member of the scientific committee or ETMM Conference series
- Member of the scientific committee or TSFP Conference series
- Member of committees to appoint faculties or to promote tenured staff in Italy, France, The Netherlands, Sweden, Canada, United States, Saudi Arabia and India.
- Reviewer for: Nature, Journal of Fluid Mechanics, Physical Review Fluids, Physics of Fluids, European Journal of Mechanics B/Fluids, Computer and Fluids, Journal of Computational Physics, Journal of Sound and Vibration, AIAA Journal, Numerical Linear Algebra with Applications, Physical Review Letters, Physical Review E, Flow Turbulence & Combustion, Journal of Low Temperature Physics, Acta Mechanica, Journal of Fluids Engineering, Environmental Fluid Mechanics, Journal of Engineering Mathematics, International Journal of Heat and Fluid Flows, International Journal of Multiphase Flows, Journal of Biomechanics.

**Invited and Named Lectures:** Roberto Verzicco has given more than 30 invited lectures and seminars in the last 10 years some of them “plenary” at conferences or named lectures. Some highlights:

- European Fluid Mechanics Conference 2008 (Manchester, UK),
- DLES7 2008 (Trieste, Italy),
- Euromech Colloquium 507 on “Immersed Boundary Methods: Current Status and Future Research Directions” 2009 (Amsterdam, The Netherlands),
- Euromech Colloquium 520 on “High Rayleigh number convective turbulence” 2010 (Les Houches, France),

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- Burgers Lecture 2013, (Enschede, NL),
  - Gauss Lecture 2013 (Braunschweig, Germany),
  - Marine 2015 (Rome, Italy).
  - IUTAM Symposium on Bubbly Flows, 2015 (Oaxaca, Mexico).
  - ECCOMAS Conference, 2016 (Crete, Greece).
  - MUSAF III Conference, 2016 (Toulouse, France).
  - Inaugural Lecture for Max Planck Center for Complex Fluid Dynamics, 2017 (Enschede, NL).
  - DLES12, 2019 (Madrid, ES).

**Inspiration for young scientists:** Since the beginning of his career Roberto Verzicco has tutored or co-tutored more than 30 PhD students or Postdocs and many of them hold a tenured position in Universities or research centres all over the world. Some examples are G. Iaccarino (Professor at Stanford University), M.D. de Tullio (Professor at Politecnico di Bari), R. Ostilla-Monico (Assist. Prof. University of Houston), Y. Yang (Assist. Prof. Peking University), R.J.A.M. Stevens (Assist. Prof. University of Twente), P. Oresta (Assist. Prof. at Politecnico di Bari), A. Sameen (Assoc. Prof. IIT Madras), R. Lakkaraju (Assist. Prof. IIT Madras), G. Stringano (R&D General Electrics), Antonio Cristallo (R&D General Electrics).

**Some representative grants**

- “RANS and LES turbulence modelling with Immersed Boundary methods” (2006-2008, 142 k€), CIRA (Italian Centre for Aerospace Research).
- “Development and Application of Lab-scale codes for Coastal Flows with wave forcing” (2007-2009, 100k€), Italian Ministry of Environment.
- “Ultimate Turbulence” (2012-2017, 1500k€), FOM (NL), with D. Lohse.
- “Bubbly Turbulence” (2012-2017, 500k€), FOM-Shell (NL), with D. Lohse.
- “Numerical simulation of the pulsatile flow in aortic prosthetic valves” (2010-2012, 70k€). Italian Ministry of Education.
- “Flow in the aortic root with the pathologic Marfan syndrome” (2012–2014, 60k€).
- MARATHON “Optimization of freight railway transportation” (2011-2014, 100k€), FP7 EU program, with L. Cantone.
- Marie Curie Action “Hi-SiMed: Hemodynamics in an Infarcted heart: from multi-physics Simulations to Medical analysis” n. 792993 (2018-2020, 164k€).
- PRIN “Fluid dynamics of hearts at risk of failure: towards methods for the prediction of disease progression” n. 2017A889FP (2019-2021, 860k€).

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## Representative Publications of the last five years

- Meschini, V., Viola, F., Verzicco, R.  
Heart rate effects on the ventricular hemodynamics and mitral valve kinematics  
(2020) *Computers and Fluids*, 197, art. no. 104359.
- Viola, F., Meschini, V., Verzicco, R.  
Fluid-Structure-Electrophysiology interaction (FSEI) in the left-heart:  
A multi-way coupled computational model  
(2020) *European Journal of Mechanics, B/Fluids*, 79, pp. 212-232.
- Wan, Z.-H., Wei, P., Verzicco, R., Lohse, D., Ahlers, G., Stevens, R.J.A.M.  
Effect of sidewall on heat transfer and flow structure in Rayleigh-Bénard convection  
(2019) *Journal of Fluid Mechanics*, 881, pp. 218-243.
- Olivieri, S., Boragno, C., Verzicco, R., Mazzino, A.  
Constructive interference in a network of elastically-bounded flapping plates  
(2019) *Journal of Fluids and Structures*, 90, pp. 334-353.
- Viola, F., Jermyn, E., Warnock, J., Querzoli, G., Verzicco, R.  
Left Ventricular Hemodynamics with an Implanted Assist Device: An In Vitro Fluid Dynamics Study  
(2019) *Annals of Biomedical Engineering*, 47 (8), pp. 1799-1814.
- Sacco, F., Verzicco, R., Ostilla-Mónico, R.  
Dynamics and evolution of turbulent Taylor rolls  
(2019) *Journal of Fluid Mechanics*, 870, pp. 970-987.
- Zhu, X., Stevens, R.J.A.M., Shishkina, O., Verzicco, R., Lohse, D.  
Nu-Ra1=2 scaling enabled by multiscale wall roughness in Rayleigh-Bénard turbulence  
(2019) *Journal of Fluid Mechanics*, 869, p. R4.
- Lu, J., Zhu, X., Peters, E.A.J.F., Verzicco, R., Lohse, D., Kuipers, J.A.M.  
Moving from momentum transfer to heat transfer { A comparative study of an advanced  
Graetz-Nusselt problem using immersed boundary methods  
(2019) *Chemical Engineering Science*, 198, pp. 317-333.
- Spandan, V., Lohse, D., de Tullio, M.D., Verzicco, R.  
A fast moving least squares approximation with adaptive Lagrangian mesh refinement for  
large scale immersed boundary simulations  
(2018) *Journal of Computational Physics*, 375, pp. 228-239.
- Peng, S., Spandan, V., Verzicco, R., Lohse, D., Zhang, X.  
Growth dynamics of microbubbles on microcavity arrays by solvent exchange: Experiments  
and numerical simulations  
(2018) *Journal of Colloid and Interface Science*, 532, pp. 103-111.
- Verschoof, R.A., Zhu, X., Bakhuis, D., Huisman, S.G., Verzicco, R., Sun, C., Lohse, D.  
Rough-wall turbulent Taylor-Couette flow: The effect of the rib height  
(2018) *The European physical journal. E, Soft matter*, 41 (10), p. 125.
- Krug, D., Zhu, X., Chung, D., Marusic, I., Verzicco, R., Lohse, D.  
Transition to ultimate Rayleigh-Bénard turbulence revealed through extended self-similarity

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- scaling analysis of the temperature structure functions  
(2018) *Journal of Fluid Mechanics*, 851, pp. 851R31-851R311.
- Spandan, V., Verzicco, R., Lohse, D.  
Physical mechanisms governing drag reduction in turbulent Taylor-Couette flow with finite-size deformable bubbles  
(2018) *Journal of Fluid Mechanics*, 849, pp. R31-R313.
- Yang, Y., Verzicco, R., Lohse, D.  
Two-scalar turbulent Rayleigh-Bénard convection: Numerical simulations and unifying theory  
(2018) *Journal of Fluid Mechanics*, 848, pp. 648-659.
- Zhu, X., Phillips, E., Spandan, V., Donners, J., Ruetsch, G., Romero, J., Ostilla-Mónico, R., Yang, Y., Lohse, D., Verzicco, R., Fatica, M., Stevens, R.J.A.M.  
AFiD-GPU: A versatile Navier-Stokes solver for wall-bounded turbulent flows on GPU clusters  
(2018) *Computer Physics Communications*, 229, pp. 199-210.
- Gvozdić, B., Alméras, E., Mathai, V., Zhu, X., Van Gils, D.P.M., Verzicco, R., Huisman, S.G., Sun, C., Lohse, D.  
Experimental investigation of heat transport in homogeneous bubbly flow  
(2018) *Journal of Fluid Mechanics*, 845, pp. 226-244.
- Kooij, G.L., Botchev, M.A., Frederix, E.M.A., Geurts, B.J., Horn, S., Lohse, D., van der Poel, E.P., Shishkina, O., Stevens, R.J.A.M., Verzicco, R.  
Comparison of computational codes for direct numerical simulations of turbulent Rayleigh-Bénard convection  
(2018) *Computers and Fluids*, 166, pp. 1-8.
- Ostilla-Mónico, R., Zhu, X., Verzicco, R.  
Exploring the large-scale structure of Taylor-Couette turbulence through Large-Eddy Simulations  
(2018) *Journal of Physics: Conference Series*, 1001 (1), art. no. 012017, .
- Stevens, R.J.A.M., Blass, A., Zhu, X., Verzicco, R., Lohse, D.  
Turbulent thermal superstructures in Rayleigh-Bénard convection  
(2018) *Physical Review Fluids*, 3 (4), art. no. 041501, .
- Zhu, X., Mathai, V., Stevens, R.J.A.M., Verzicco, R., Lohse, D.  
Transition to the Ultimate Regime in Two-Dimensional Rayleigh-Bénard Convection  
(2018) *Physical Review Letters*, 120 (14), art. no. 144502, .
- Zhu, X., Verschoof, R.A., Bakhuis, D., Huisman, S.G., Verzicco, R., Sun, C., Lohse, D.  
Wall roughness induces asymptotic ultimate turbulence  
(2018) *Nature Physics*, 14 (4), pp. 417-423.
- Jiang, H., Zhu, X., Mathai, V., Verzicco, R., Lohse, D., Sun, C.  
Controlling Heat Transport and Flow Structures in Thermal Turbulence Using Ratchet Surfaces  
(2018) *Physical Review Letters*, 120 (4), art. no. 044501, .
- Bakhuis, D., Ostilla-Mónico, R., Van Der Poel, E.P., Verzicco, R., Lohse, D.  
Mixed insulating and conducting thermal boundary conditions in Rayleigh-Bénard convection  
(2018) *Journal of Fluid Mechanics*, 835, pp. 491-511.
- Zhu, X., Verzicco, R., Zhang, X., Lohse, D.

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- Diffusive interaction of multiple surface nanobubbles: Shrinkage, growth, and coarsening  
(2018) *Soft Matter*, 14 (11), pp. 2006-2014.
- Bao, L., Spandan, V., Yang, Y., Dyett, B., Verzicco, R., Lohse, D., Zhang, X.  
Flow-induced dissolution of femtoliter surface droplet arrays  
(2018) *Lab on a Chip*, 18 (7), pp. 1066-1074.
- Bakhuis, D., Ostilla-Mónico, R., van der Poel, E.P., Verzicco, R., Lohse, D.  
Mixed insulating and conducting thermal boundary conditions in Rayleigh-Bénard convection  
(2017) *Journal of Fluid Mechanics*, pp. 491-511. Article in Press.
- Krug, D., Yang, X.I.A., De Silva, C.M., Ostilla-Mónico, R., Verzicco, R., Marusic, I., Lohse, D.  
Statistics of turbulence in the energy-containing range of Taylor-Couette compared to canonical wall-bounded flows  
(2017) *Journal of Fluid Mechanics*, 830, pp. 797-819.
- Ostilla-Mónico, R., Zhu, X., Spandan, V., Verzicco, R., Lohse, D.  
Life stages of wall-bounded decay of Taylor-Couette turbulence  
(2017) *Physical Review Fluids*, 2 (11), art. no. 114601, .
- Spandan, V., Meschini, V., Ostilla-Mónico, R., Lohse, D., Querzoli, G., de Tullio, M.D., Verzicco, R.  
A parallel interaction potential approach coupled with the immersed boundary method for fully resolved simulations of deformable interfaces and membranes  
(2017) *Journal of Computational Physics*, 348, pp. 567-590.
- Zhu, X., Stevens, R.J.A.M., Verzicco, R., Lohse, D.  
Roughness-Facilitated Local  $1/2$  Scaling Does Not Imply the Onset of the Ultimate Regime of Thermal Convection  
(2017) *Physical Review Letters*, 119 (15), art. no. 154501, .
- Spandan, V., Verzicco, R., Lohse, D.  
Deformable ellipsoidal bubbles in Taylor-Couette flow with enhanced Euler-Lagrangian tracking  
(2017) *Physical Review Fluids*, 2 (10), art. no. 104304, .
- Chong, K.L., Yang, Y., Huang, S.-D., Zhong, J.-Q., Stevens, R.J.A.M., Verzicco, R., Lohse, D., Xia, K.-Q.  
Confined Rayleigh-Bénard, Rotating Rayleigh-Bénard, and Double Diffusive Convection: A Unifying View on Turbulent Transport Enhancement through Coherent Structure Manipulation  
(2017) *Physical Review Letters*, 119 (6), art. no. 064501, .
- Zhu, X., Verzicco, R., Lohse, D.  
Disentangling the origins of torque enhancement through wall roughness in Taylor-Couette turbulence  
(2017) *Journal of Fluid Mechanics*, 812, pp. 279-293.
- Zhu, X., Verschoof, R.A., Bakhuis, D., Huisman, S.G., Monico, R.O., Grossmann, S., Verzicco, R., Sun, C., Lohse, D.  
Turbulent Taylor-Couette flow  
(2017) 10th International Symposium on Turbulence and Shear Flow Phenomena, TSFP 2017, 3, .
- Spandan, V., Lohse, D., Verzicco, R.  
Deformation and orientation statistics of neutrally buoyant sub-Kolmogorov ellipsoidal droplets in turbulent Taylor-Couette flow  
(2016) *Journal of Fluid Mechanics*, 809, pp. 480-501.

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- Yang, Y., Verzicco, R., Lohse, D.  
Vertically Bounded Double Diffusive Convection in the Finger Regime: Comparing No-Slip versus Free-Slip Boundary Conditions  
(2016) Physical Review Letters, 117 (18), art. no. 184501, .
- Yang, Y., Verzicco, R., Lohse, D.  
Scaling laws and flow structures of double diffusive convection in the finger regime  
(2016) Journal of Fluid Mechanics, 802, pp. 667-689.
- Kunnen, R.P.J., Ostilla-Mónico, R., Van Der Poel, E.P., Verzicco, R., Lohse, D.  
Transition to geostrophic convection: The role of the boundary conditions  
(2016) Journal of Fluid Mechanics, 799, pp. 413-432.
- Spandan, V., Ostilla-Mónico, R., Verzicco, R., Lohse, D.  
Drag reduction in numerical two-phase Taylor-Couette turbulence using an Euler-Lagrange approach  
(2016) Journal of Fluid Mechanics, 798, pp. 411-435.
- Ostilla-Monico, R., Verzicco, R., Lohse, D.  
Turbulent Taylor-Couette flow with stationary inner cylinder  
(2016) Journal of Fluid Mechanics, 799, p. R1.
- Zhu, X., Ostilla-Mónico, R., Verzicco, R., Lohse, D.  
Direct numerical simulation of Taylor-Couette flow with grooved walls: Torque scaling and flow structure  
(2016) Journal of Fluid Mechanics, 794, pp. 746-774.
- Spandan, V., Ostilla-Monico, R., Lohse, D., Verzicco, R.  
Identifying coherent structures and vortex clusters in Taylor-Couette turbulence  
(2016) Journal of Physics: Conference Series, 708 (1), art. no. 012006, .
- Ostilla-Mónico, R., Verzicco, R., Grossmann, S., Lohse, D.  
The near-wall region of highly turbulent Taylor-Couette flow  
(2016) Journal of Fluid Mechanics, 788, pp. 95-117.
- Yang, Y., Verzicco, R., Lohse, D.  
From convection rolls to finger convection in double-diffusive turbulence  
(2016) Proceedings of the National Academy of Sciences of the United States of America, 113 (1), pp. 69-73.
- Ostilla-Monico, R., Yang, Y., van der Poel, E.P., Lohse, D., Verzicco, R.  
A multiple-resolution strategy for Direct Numerical Simulation of scalar turbulence  
(2015) Journal of Computational Physics, 301, pp. 308-321.
- Van Der Poel, E.P., Ostilla-Mónico, R., Verzicco, R., Grossmann, S., Lohse, D.  
Logarithmic Mean Temperature Profiles and Their Connection to Plume Emissions in Turbulent Rayleigh-Bénard Convection  
(2015) Physical Review Letters, 115 (15), art. no. 154501, .
- van der Poel, E.P., Ostilla-Mónico, R., Donners, J., Verzicco, R.  
A pencil distributed finite difference code for strongly turbulent wall-bounded flows  
(2015) Computers and Fluids, 116, pp. 10-16.



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- van Eeten, K.M.P., Verzicco, R., van der Schaaf, J., van Heijst, G.J.F., Schouten, J.C.  
A numerical study on gas-liquid mass transfer in the rotor-stator spinning disc reactor  
(2015) Chemical Engineering Science, 129, pp. 14-24.
- Van Der Poel, E.P., Verzicco, R., Grossmann, S., Lohse, D.  
Plume emission statistics in turbulent Rayleigh-Bénard convection  
(2015) Journal of Fluid Mechanics, 772, pp. 5-15.
- Yang, Y., Van Der Poel, E.P., Ostilla-Mónico, R., Sun, C., Verzicco, R., Grossmann, S., Lohse, D.  
Salinity transfer in bounded double diffusive convection  
(2015) Journal of Fluid Mechanics, 768, pp. 1-16.
- Ostilla-Mónico, R., Verzicco, R., Lohse, D.  
Effects of the computational domain size on direct numerical simulations of Taylor-Couette  
turbulence with stationary outer cylinder  
(2015) Physics of Fluids, 27 (2), art. no. 025110, .
- Ostilla-Mónico, R., Van Der Poel, E.P., Verzicco, R., Grossmann, S., Lohse, D.  
Exploring the phase diagram of fully turbulent Taylor-Couette flow  
(2014) Journal of Fluid Mechanics, 761, pp. 1-26.
- Van Der Poel, E.P., Ostilla-Mónico, R., Verzicco, R., Lohse, D.  
Effect of velocity boundary conditions on the heat transfer and flow topology in  
two-dimensional Rayleigh-Bénard convection  
(2014) Physical Review E - Statistical, Nonlinear, and Soft Matter Physics, 90 (1), art. no. 013017, .
- Ostilla-Mónico, R., Verzicco, R., Grossmann, S., Lohse, D.  
Turbulence decay towards the linearly stable regime of Taylor-Couette flow  
(2014) Journal of Fluid Mechanics, 748, art. no. R3, .
- Ostilla-Mónico, R., van der Poel, E.P., Verzicco, R., Grossmann, S., Lohse, D.  
Boundary layer dynamics at the transition between the classical and the ultimate  
regime of Taylor-Couette flow  
(2014) Physics of Fluids, 26 (1), art. no. 015114, .
- Stevens, R.J.A.M., Lohse, D., Verzicco, R.  
Sidewall effects in Rayleigh-Bénard convection  
(2014) Journal of Fluid Mechanics, 741, pp. 1-27.
- Ostilla-Mónico, R., Verzicco, R., Grossmann, S., Lohse, D.  
Turbulence decay towards the linearly stable regime of Taylor-Couette flow  
(2014) Journal of Fluid Mechanics, 748 (1), p. R3.
- Ostilla-Mónico, R., Huisman, S.G., Jannink, T.J.G., Van Gils, D.P.M., Verzicco, R.,  
Grossmann, S., Sun, C., Lohse, D.  
Optimal Taylor-Couette flow: Radius ratio dependence  
(2014) Journal of Fluid Mechanics, 747, pp. 1-29.