

David Quéré

Curriculum Vitæ

Current affiliations

Physique et Mécanique des Milieux Hétérogènes, ESPCI, Paris.
Dpts of Physics and Mechanics, École Polytechnique, Paris.
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Education

1985: École Supérieure de Physique et Chimie Industrielles, Paris.
1985: DEA (Master) in Physics of Fluids, University Paris VI.
1989: PhD in Physics, University Paris VI.

Experience

1986-89 : PhD at Collège de France, on *Wetting and instabilities on fibers*.
1989-99 : Chargé of Research, CNRS.
1995- : Scientific Adviser at Saint-Gobain.
1996-06 : Assistant Professor, Physics, École Polytechnique.
1999- : Director of Research, CNRS.
2006 : Invited Professor, Dpt of Mathematics, MIT.
2006- : Professor, Physics and Mechanics, École Polytechnique.
2013 : Invited Professor, University of Tsinghua (Beijing).

Activities

Research in Soft Matter physics, with a particular interest in interfacial hydrodynamics – drops, films, morphogenesis, coating, biomimetics.

About 150 publications (among which 120 papers in peer-reviewed journals, two books published in 2002 and 2003 and two CD-Roms published in 2005 and 2008). More than 300 invited seminars (including the Probst Lecture at MIT, and the Batchelor Lecture in Cambridge) and invited lectures in international conferences.

Selections of publications since 2001

Pascale Aussillous & David Quéré

Liquid marbles. *Nature*, **411**, 924 (2001).

José Bico, Christophe Tordeux & David Quéré

Rough wetting. *Europhysics Letters*, **55**, 214 (2001).

Denis Richard, Christophe Clanet & David Quéré

Contact time of bouncing drops. *Nature*, **417**, 811 (2002).

Pierre-Gilles de Gennes, Françoise Brochard-Wyart & David Quéré

Drops, bubbles, pearls and waves. *Belin*, Paris, 2002. *Yoshioka*, Kyoto, 2003. *Springer*, New York, 2004.

Aurélie Lafuma & David Quéré

Superhydrophobic states. *Nature Materials*, **2**, 457 (2003).

Anne-Laure Bianco, Christophe Clanet & David Quéré

Leidenfrost drops. *Physics of Fluids*, **15**, 1632 (2003).

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Non-sticking drops. *Reports on Progress in Physics*, **68**, 2495 (2005).

David Quéré, Marc Fermigier & Christophe Clanet

Mobile interfaces (CD-Rom), *Belin Ed.*, Paris, 2005 & 2013. *Yoshioka Ed.*, Kyoto, 2008.

Anne-Laure Bianco, Frédéric Chevy, Christophe Clanet, Guillaume Lagubeau & David Quéré

On the elasticity of an inertial liquid shock. *Journal of Fluid Mechanics*, **554**, 47 (2006).

Manu Prakash, David Quéré & John W.M. Bush

Surface Tension Transport of Prey by Feeding Shorebirds, *Science*, **320**, 931 (2008).

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Wetting and roughness. *Annual Review of Materials Research*, **38**, 71 (2008).

Guillaume Lagubeau, Marie Le Merrer, Christophe Clanet & David Quéré

Leidenfrost on a ratchet. *Nature Physics*, **7**, 395 (2011).

Marie Le Merrer, Christophe Clanet, David Quéré, Élie Raphael & Frédéric Chevy

Wave drag on floating bodies. *Proceedings of the National Academy of Science*, **108**, 15064 (2011).

Guillaume Dupeux, Marie Le Merrer, Christophe Clanet & David Quéré

Trapping Leidenfrost drops with crenulations. *Physical Review Letters*, **107**, 114503 (2011).

Marie Le Merrer, David Quéré & Christophe Clanet

Buckling of Viscous Filaments of a Fluid under Compression Stresses. *Phys. Rev. Letters*, **109**, 064502 (2012).

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Leidenfrost Dynamics. *Annual Review of Fluid Mechanics*, **45**, 197 (2013).