

List of publications - Lydéric Bocquet

<https://www.phys.ens.fr/~lbocquet/publication.html>

Articles

<http://www.researcherid.com/rid/A-2241-2012>

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submitted or in preparation:

“*Quantum feedback at the solid-liquid interface: flow-induced electronic current and negative friction*”, B. Coquinot, L. Bocquet, N. Kavokine, submitted to PRX (2022); ArXiv:2205.03250

“*Strong electronic winds blowing under liquid flows on carbon surfaces*”, A. Marcotte, M. Lizee, B. Coquinot, N. Kavokine, K. Sobnath, C. Barraud, A. Bhardwaj, B. Radha, A. Niguès, L. Bocquet, and A. Siria, submitted to PRX (2022); ArXiv:2205.05037

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[193] « *Long-term memory and synapse-like dynamics in two-dimensional nanochannels* », P. Robin, T. Emmerich, A. Ismail, A. Niguès, Y. You, G.-H. Nam, A. Keerthi, A. Siria, A.K. Geim, B. Radha, L. Bocquet, **Science** (2023), volume of January 13th.

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[192] « *Au Coeur des étonnants flots moléculaires* », L. Bocquet and A. Siria, **Pour la Science**, issue of september 2022.

[191] « *Interaction confinement and electronic screening in two-dimensional nanofluidic channels* », N. Kavokine, P. Robin, L. Bocquet, **J. Chem. Phys.** **157** 114703 (2022).

[190] « *Wave drag in unsteady motion* », A. Dode, R. Carmigniani, C. Cohen, C. Clanet, L. Bocquet, accepted for publication in **J. Fluid Mech.** **951** A15 (2022).

[189] « *Fluctuation-induced quantum friction in nanoscale water flows* », N. Kavokine, M.-L. Bocquet and L. Bocquet, **Nature** **602** 84-90 (2022).

[188] « *Exalted nanofluidic transport in activated carbon nanoconduits* », T. Emmerich, V. Kalangi, A. Nigues, A. Keerthi, B. Radha, A. Siria, L. Bocquet, **Nature Materials** **21** 696-702 (2022).

[187] « *Chemi-sorbed versus physi-sorbed surface charge and its impact on electrokinetic transport: carbon versus boron-nitride surface* », E. Mangaud, M.-L. Bocquet, L. Bocquet, and B. Rotenberg, **J. Chem. Phys.**, **156**, 044703 (2022).

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[185] « *Wetting transition of ionic liquids at metal surfaces: A computational approach to electronic screening using a virtual Thomas-Fermi fluid* »,

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[184] « *Life on the osmotic slopes* »,

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[183] « *Fluids at nanoscales: from continuum to sub-continuum transport* »

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[180] “*Nanofluidics coming of age*”,

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[179] “*Local and global force balance for diffusiophoretic transport*”,

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