

# Vasily Kantsler

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3303341/vasily-kantsler-publications-by-citations.pdf>

**Version:** 2024-04-17

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

24  
papers

1,520  
citations

18  
h-index

28  
g-index

28  
ext. papers

1,774  
ext. citations

6.8  
avg, IF

4.88  
L-index

#	Paper	IF	Citations
24	Ciliary contact interactions dominate surface scattering of swimming eukaryotes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 1187-92	11.5	196
23	Human spermatozoa migration in microchannels reveals boundary-following navigation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 8007-10	11.5	193
22	Orientation and dynamics of a vesicle in tank-treading motion in shear flow. <i>Physical Review Letters</i> , <b>2005</b> , 95, 258101	7.4	178
21	Rheotaxis facilitates upstream navigation of mammalian sperm cells. <i>ELife</i> , <b>2014</b> , 3, e02403	8.9	141
20	Dynamics of a vesicle in general flow. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 11444-7	11.5	89
19	Phase diagram of single vesicle dynamical states in shear flow. <i>Physical Review Letters</i> , <b>2009</b> , 102, 118105	7.4	88
18	Fluctuations, dynamics, and the stretch-coil transition of single actin filaments in extensional flows. <i>Physical Review Letters</i> , <b>2012</b> , 108, 038103	7.4	70
17	Vesicle dynamics in time-dependent elongation flow: wrinkling instability. <i>Physical Review Letters</i> , <b>2007</b> , 99, 178102	7.4	68
16	Continuous particle size separation and size sorting using ultrasound in a microchannel. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2006</b> , 2006, P01012-P01012	1.9	68
15	Bimodal rheotactic behavior reflects flagellar beat asymmetry in human sperm cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 15904-9	11.5	63
14	Dynamics of interacting vesicles and rheology of vesicle suspension in shear flow. <i>Europhysics Letters</i> , <b>2008</b> , 82, 58005	1.6	60
13	Membrane viscosity determined from shear-driven flow in giant vesicles. <i>Physical Review Letters</i> , <b>2013</b> , 111, 038103	7.4	59
12	Microalgae Scatter off Solid Surfaces by Hydrodynamic and Contact Forces. <i>Physical Review Letters</i> , <b>2015</b> , 115, 258102	7.4	49
11	Scattering of biflagellate microswimmers from surfaces. <i>Physical Review E</i> , <b>2017</b> , 96, 023102	2.4	48
10	Entrainment dominates the interaction of microalgae with micron-sized objects. <i>Nature Communications</i> , <b>2016</b> , 7, 12518	17.4	48
9	Fluid velocity fluctuations in a suspension of swimming protists. <i>Physical Review Letters</i> , <b>2010</b> , 105, 188101	7.4	28
8	The effect of flow on swimming bacteria controls the initial colonization of curved surfaces. <i>Nature Communications</i> , <b>2020</b> , 11, 2851	17.4	22

7	Geometric control of bacterial surface accumulation. <i>Physical Review E</i> , <b>2019</b> , 99, 052607	2.4	12
6	Pattern Engineering of Living Bacterial Colonies Using Meniscus-Driven Fluidic Channels. <i>ACS Synthetic Biology</i> , <b>2020</b> , 9, 1277-1283	5.7	8
5	Green algae scatter off sharp viscosity gradients. <i>Scientific Reports</i> , <b>2021</b> , 11, 399	4.9	5
4	Author response: Rheotaxis facilitates upstream navigation of mammalian sperm cells <b>2014</b> ,		3
3	Disorder-induced topological transition in porous media flow networks. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2019</b> , 268, 66-74	2.7	2
2	The effect of flow on swimming bacteria controls the initial colonization of curved surfaces		1
1	Curved ratchets improve bacteria rectification in microfluidic devices. <i>Physical Review E</i> , <b>2021</b> , 104, 014602	2.4	1