## Vasily Kantsler

## List of Publications by Year in Descending Order

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

24 1,520 18 28 g-index

28 1,774 6.8 4.88 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
24	Curved ratchets improve bacteria rectification in microfluidic devices. <i>Physical Review E</i> , <b>2021</b> , 104, 014	46 <u>0.2</u>	1
23	Green algae scatter off sharp viscosity gradients. Scientific Reports, 2021, 11, 399	4.9	5
22	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
21	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
20	Geometric control of bacterial surface accumulation. <i>Physical Review E</i> , <b>2019</b> , 99, 052607	2.4	12
19	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
18	Scattering of biflagellate microswimmers from surfaces. <i>Physical Review E</i> , <b>2017</b> , 96, 023102	2.4	48
17	Entrainment dominates the interaction of microalgae with micron-sized objects. <i>Nature Communications</i> , <b>2016</b> , 7, 12518	17.4	48
16	Microalgae Scatter off Solid Surfaces by Hydrodynamic and Contact Forces. <i>Physical Review Letters</i> , <b>2015</b> , 115, 258102	7.4	49
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	Rheotaxis facilitates upstream navigation of mammalian sperm cells. <i>ELife</i> , <b>2014</b> , 3, e02403	8.9	141
13	Author response: Rheotaxis facilitates upstream navigation of mammalian sperm cells 2014,		3
12	Membrane viscosity determined from shear-driven flow in giant vesicles. <i>Physical Review Letters</i> , <b>2013</b> , 111, 038103	7.4	59
11	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
10	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
9	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
8	Fluid velocity fluctuations in a suspension of swimming protists. <i>Physical Review Letters</i> , <b>2010</b> , 105, 188	31 <del>9</del> .1 <sub>4</sub>	28

## LIST OF PUBLICATIONS

7	nase diagram of single vesicle dynamical states in shear flow. <i>Physical Review Letters</i> , <b>2009</b> , 102, 11810 <del>5</del> .4		88	
6	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	
5	Dynamics of interacting vesicles and rheology of vesicle suspension in shear flow. <i>Europhysics Letters</i> , <b>2008</b> , 82, 58005	1.6	60	
4	Vesicle dynamics in time-dependent elongation flow: wrinkling instability. <i>Physical Review Letters</i> , <b>2007</b> , 99, 178102	7.4	68	
3	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	
2	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	
1	The effect of flow on swimming bacteria controls the initial colonization of curved surfaces		1	