Tatiana V Nizkaya

List of Publications by Year
in descending order

17 papers	309 citations	840776 11 h-index	888059 17 g-index
17 all docs	17 docs citations	17 times ranked	266 citing authors

#	Article	IF	Citations
1	Inertial focusing of finite-size particles in microchannels. Journal of Fluid Mechanics, 2018, 840, 613-630.	3.4	59
2	Gas cushion model and hydrodynamic boundary conditions for superhydrophobic textures. Physical Review E, 2014, 90, 043017.	2.1	44
3	Enhanced slip properties of lubricant-infused grooves. Physical Review E, 2018, 98, .	2.1	30
4	Principles of transverse flow fractionation of microparticles in superhydrophobic channels. Lab on A Chip, 2015, 15, 2835-2841.	6.0	29
5	Flows and mixing in channels with misaligned superhydrophobic walls. Physical Review E, 2015, 91, 033020.	2.1	21
6	Flow in channels with superhydrophobic trapezoidal textures. Soft Matter, 2013, 9, 11671.	2.7	18
7	Inertial migration of oblate spheroids in a plane channel. Physics of Fluids, 2020, 32, .	4.0	18
8	Inertial migration of neutrally buoyant particles in superhydrophobic channels. Physical Review Fluids, 2020, 5, .	2.5	18
9	Flow-driven collapse of lubricant-infused surfaces. Journal of Fluid Mechanics, 2020, 901, .	3.4	15
10	Probing effective slippage on superhydrophobic stripes by atomic force microscopy. Soft Matter, 2016, 12, 6910-6917.	2.7	14
11	Boundary conditions at the gas sectors of superhydrophobic grooves. Physical Review Fluids, 2018, 3, .	2.5	13
12	Self-diffusiophoresis of Janus particles that release ions. Physics of Fluids, 2022, 34, .	4.0	9
13	Advective superdiffusion in superhydrophobic microchannels. Physical Review E, 2017, 96, 033109.	2.1	8
14	Inertial focusing of small particles in wavy channels: Asymptotic analysis at weak particle inertia. Physica D: Nonlinear Phenomena, 2014, 268, 91-99.	2.8	6
15	Instability of particle inertial migration in shear flow. Physics of Fluids, 2021, 33, .	4.0	3
16	Note on dust trapping in point vortex pairs with unequal strengths. Physics of Fluids, 2010, 22, .	4.0	2
17	Accurate Solutions to Non-Linear PDEs Underlying a Propulsion of Catalytic Microswimmers. Mathematics, 2022, 10, 1503.	2.2	2