

Evgeny S Asmolov

List of Publications by Year in descending order

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61
papers

1,341
citations

471061

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344852

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docs citations

62
times ranked

1073
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-diffusiophoresis of Janus particles that release ions. <i>Physics of Fluids</i> , 2022, 34, .	1.6	9
2	Accurate Solutions to Non-Linear PDEs Underlying a Propulsion of Catalytic Microswimmers. <i>Mathematics</i> , 2022, 10, 1503.	1.1	2
3	Light-induced manipulation of passive and active microparticles. <i>European Physical Journal E</i> , 2021, 44, 50.	0.7	13
4	Instability of particle inertial migration in shear flow. <i>Physics of Fluids</i> , 2021, 33, .	1.6	3
5	Enhanced transport of ions by tuning surface properties of the nanochannel. <i>Physical Review E</i> , 2021, 104, 035107.	0.8	7
6	Inertial migration of oblate spheroids in a plane channel. <i>Physics of Fluids</i> , 2020, 32, .	1.6	18
7	Flow-driven collapse of lubricant-infused surfaces. <i>Journal of Fluid Mechanics</i> , 2020, 901, .	1.4	15
8	Achieving large zeta-potentials with charged porous surfaces. <i>Physics of Fluids</i> , 2020, 32, .	1.6	17
9	Inertial migration of neutrally buoyant particles in superhydrophobic channels. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	18
10	Electro-osmotic flow in hydrophobic nanochannels. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 23036-23043.	1.3	32
11	Inertial focusing of finite-size particles in microchannels. <i>Journal of Fluid Mechanics</i> , 2018, 840, 613-630.	1.4	59
12	Enhanced slip properties of lubricant-infused grooves. <i>Physical Review E</i> , 2018, 98, .	0.8	30
13	Boundary conditions at the gas sectors of superhydrophobic grooves. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	13
14	Advective superdiffusion in superhydrophobic microchannels. <i>Physical Review E</i> , 2017, 96, 033109.	0.8	8
15	Flows and mixing in channels with misaligned superhydrophobic walls. <i>Physical Review E</i> , 2015, 91, 033020.	0.8	21
16	Principles of transverse flow fractionation of microparticles in superhydrophobic channels. <i>Lab on A Chip</i> , 2015, 15, 2835-2841.	3.1	29
17	Lattice-Boltzmann simulations of the drag force on a sphere approaching a superhydrophobic striped plane. <i>Journal of Chemical Physics</i> , 2014, 140, 034707.	1.2	12
18	Gas cushion model and hydrodynamic boundary conditions for superhydrophobic textures. <i>Physical Review E</i> , 2014, 90, 043017.	0.8	44

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19	Effective slippage on superhydrophobic trapezoidal grooves. <i>Journal of Chemical Physics</i> , 2013, 139, 174708.	1.2	12
20	Flow in channels with superhydrophobic trapezoidal textures. <i>Soft Matter</i> , 2013, 9, 11671.	1.2	18
21	Effective slip-length tensor for a flow over weakly slipping stripes. <i>Physical Review E</i> , 2013, 88, 023004.	0.8	28
22	Effective hydrodynamic boundary conditions for microtextured surfaces. <i>Physical Review E</i> , 2013, 87, 011002.	0.8	22
23	Flow past superhydrophobic surfaces with cosine variation in local slip length. <i>Physical Review E</i> , 2013, 87, 023005.	0.8	27
24	Effective slip boundary conditions for arbitrary one-dimensional surfaces. <i>Journal of Fluid Mechanics</i> , 2012, 706, 108-117.	1.4	52
25	Migration of settling particles in a horizontal viscous flow through a vertical slot with porous walls. <i>International Journal of Multiphase Flow</i> , 2011, 37, 453-461.	1.6	6
26	Drag force on a sphere moving toward an anisotropic superhydrophobic plane. <i>Physical Review E</i> , 2011, 84, 026330.	0.8	32
27	Far-field disturbance flow induced by a small non-neutrally buoyant sphere in a linear shear flow. <i>Journal of Fluid Mechanics</i> , 2010, 643, 449-470.	1.4	3
28	The inertial lift on a spherical particle settling in a horizontal viscous flow through a vertical slot. <i>Physics of Fluids</i> , 2009, 21, .	1.6	9
29	Instability of a horizontal plane-channel flow of a dilute suspension. <i>Fluid Dynamics</i> , 2009, 44, 45-54.	0.2	2
30	Inertial migration of sedimenting particles in a suspension flow through a Hele-Shaw cell. <i>Fluid Dynamics</i> , 2009, 44, 405-418.	0.2	11
31	Shear-induced self-diffusion in a Couette flow of a dilute suspension. , 2009, , .		0
32	Shear-induced self-diffusion in a Couette flow of a dilute suspension. <i>Springer Proceedings in Physics</i> , 2009, , 375-378.	0.1	0
33	Asymptotic model of the inertial migration of particles in a dilute suspension flow through the entry region of a channel. <i>Physics of Fluids</i> , 2008, 20, 123301.	1.6	14
34	Shear-induced self-diffusion in a wall-bounded dilute suspension. <i>Physical Review E</i> , 2008, 77, 066312.	0.8	5
35	Fluctuating interface in a dilute sedimenting suspension. <i>Physical Review E</i> , 2007, 76, 016309.	0.8	1
36	Numerical simulation of rarefied suspension sedimentation in a container. <i>Fluid Dynamics</i> , 2007, 42, 410-418.	0.2	1

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37	The effect of interphase interaction on the development of perturbations in a turbulent swirl flow in multicomponent cocurrent supersonic stream. High Temperature, 2006, 44, 879-886.	0.1	0
38	Effect of Interphase Heat Transfer on the Stability of a Turbulent Multicomponent Flow in a Vortex. Fluid Dynamics, 2005, 40, 929-939.	0.2	1
39	The Calculation of Turbulent Multiphase Swirl Flows of a Viscous Heat-Conducting Gas with Volume Heat Release. High Temperature, 2005, 43, 595-602.	0.1	0
40	Turnable CO ₂ laser measurements of composition and concentrations in multicomponent wake behind supersonic civil aircraft. , 2005, , .		0
41	Evolution of fluctuations in a suspension sedimenting in a container bounded by horizontal walls. Physics of Fluids, 2004, 16, 3086-3093.	1.6	9
42	Numerical Simulation of the Coherent Structures in a Homogeneous Sedimenting Suspension. , 2003, , 159-164.		0
43	The inertial lift on a small particle in a weak-shear parabolic flow. Physics of Fluids, 2002, 14, 15-28.	1.6	22
44	Flow past a sphere undergoing unsteady rectilinear motion and unsteady drag at small Reynolds number. Journal of Fluid Mechanics, 2001, 446, 95-119.	1.4	2
45	Repetitively pulsed gas-jet laser cutting of metals in an oxygen-containing gas. Quantum Electronics, 2000, 30, 45-47.	0.3	1
46	The inertial lift on a spherical particle in a plane Poiseuille flow at large channel Reynolds number. Journal of Fluid Mechanics, 1999, 381, 63-87.	1.4	569
47	The inertial lift on an oscillating sphere in a linear shear flow. International Journal of Multiphase Flow, 1999, 25, 739-751.	1.6	30
48	<title>Some possibilities for optimizing a repetively pulsed regime of gas-assisted laser cutting</title>. , 1999, , .		0
49	Stability of a dusty-gas laminar boundary layer on a flat plate. Journal of Fluid Mechanics, 1998, 365, 137-170.	1.4	32
50	Experimental investigation of the gas flow in gas-assisted laser cutting by means of geometrically similar models. , 1996, , .		0
51	Computational and experimental investigation of gas-assisted laser cutting of thick metal. , 1996, 2713, 248.		0
52	Stability of Two-Phase Boundary Layer on a Flat Plate. , 1995, , 333-340.		2
53	Dusty-gas flow in a laminar boundary layer over a blunt body. Journal of Fluid Mechanics, 1995, 305, 29-46.	1.4	11
54	Dispersed phase motion in laminar boundary layer flow over a wedge. Fluid Dynamics, 1994, 28, 778-784.	0.2	1

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55	<title>Gas hydrodynamics of CW laser cutting of metals in inert gas</title>. , 1994, , .		15
56	Particle motion in a laminar boundary layer on the transverse velocity relaxation length. Fluid Dynamics, 1993, 28, 63-68.	0.2	1
57	Motion of a suspension in the laminar boundary layer on a flat plate. Fluid Dynamics, 1992, 27, 49-54.	0.2	8
58	Dynamics of a spherical particle in a laminar boundary layer. Fluid Dynamics, 1991, 25, 886-890.	0.2	31
59	Lift force exerted on a spherical particle in a laminar boundary layer. Fluid Dynamics, 1990, 24, 710-714.	0.2	10
60	Boundary kinetic effects in the problem of slow flow over an evaporating heat-conducting spherical particle. Fluid Dynamics, 1987, 22, 279-283.	0.2	1
61	Role of the Knudsen layer in the problem of droplet evaporation. Fluid Dynamics, 1984, 19, 107-111.	0.2	0