

Rouslan Krechetnikov

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/765452/publications.pdf>

Version: 2024-02-01

38
papers

767
citations

623734

14
h-index

501196

28
g-index

38
all docs

38
docs citations

38
times ranked

686
citing authors

#	ARTICLE	IF	CITATIONS
1	Dissipation-induced instabilities in finite dimensions. <i>Reviews of Modern Physics</i> , 2007, 79, 519-553.	45.6	108
2	Crown-forming instability phenomena in the drop splash problem. <i>Journal of Colloid and Interface Science</i> , 2009, 331, 555-559.	9.4	101
3	Surfactant effects in the Landau-Levich problem. <i>Journal of Fluid Mechanics</i> , 2006, 559, 429.	3.4	65
4	Experimental study of substrate roughness and surfactant effects on the Landau-Levich law. <i>Physics of Fluids</i> , 2005, 17, 102108.	4.0	63
5	Landau-Levich flow visualization: Revealing the flow topology responsible for the film thickening phenomena. <i>Physics of Fluids</i> , 2012, 24, .	4.0	52
6	Problems on Time-Varying Domains: Formulation, Dynamics, and Challenges. <i>Acta Applicandae Mathematicae</i> , 2015, 137, 123-157.	1.0	45
7	On destabilizing effects of two fundamental non-conservative forces. <i>Physica D: Nonlinear Phenomena</i> , 2006, 214, 25-32.	2.8	37
8	Rayleigh-Taylor and Richtmyer-Meshkov instabilities of flat and curved interfaces. <i>Journal of Fluid Mechanics</i> , 2009, 625, 387-410.	3.4	37
9	Stability of liquid sheet edges. <i>Physics of Fluids</i> , 2010, 22, .	4.0	32
10	On application of lubrication approximations to nonunidirectional coating flows with clean and surfactant interfaces. <i>Physics of Fluids</i> , 2010, 22, 092102.	4.0	31
11	Flat plate impact on water. <i>Journal of Fluid Mechanics</i> , 2018, 850, 1066-1116.	3.4	29
12	On physical mechanisms in chemical reaction-driven tip-streaming. <i>Physics of Fluids</i> , 2004, 16, 2556-2566.	4.0	22
13	Experimental study of a surfactant-driven fingering phenomenon in a Hele-Shaw cell. <i>Journal of Fluid Mechanics</i> , 2005, 527, 197-216.	3.4	20
14	On a new surfactant-driven fingering phenomenon in a Hele-Shaw cell. <i>Journal of Fluid Mechanics</i> , 2004, 509, 103-124.	3.4	18
15	Stability on Time-Dependent Domains. <i>Journal of Nonlinear Science</i> , 2014, 24, 493-523.	2.1	14
16	Dissipation-Induced Instability Phenomena in Infinite-Dimensional Systems. <i>Archive for Rational Mechanics and Analysis</i> , 2009, 194, 611-668.	2.4	12
17	Structure of Marangoni-driven singularities. <i>Physics of Fluids</i> , 2012, 24, 022111.	4.0	9
18	Stability on time-dependent domains: convective and dilution effects. <i>Physica D: Nonlinear Phenomena</i> , 2017, 342, 16-23.	2.8	7

#	ARTICLE	IF	CITATIONS
19	Hidden Invariances in Problems of Two-Dimensional and Three-Dimensional Wall Jets for Newtonian and Non-Newtonian Fluids. SIAM Journal on Applied Mathematics, 2002, 62, 1837-1855.	1.8	6
20	Flow around a corner in the water impact problem. Physics of Fluids, 2014, 26, 072107.	4.0	6
21	Thermodynamics of chemical Marangoni-driven engines. Soft Matter, 2017, 13, 4931-4950.	2.7	6
22	Pattern formation on time-dependent domains. Journal of Fluid Mechanics, 2019, 880, 136-179.	3.4	6
23	On upstream influence in supersonic flows. Journal of Fluid Mechanics, 2005, 539, 167.	3.4	5
24	On the origin and nature of finite-amplitude instabilities in physical systems. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 412004.	2.1	5
25	Origin of ejecta in the water impact problem. Physics of Fluids, 2014, 26, .	4.0	5
26	A linear stability theory on time-invariant and time-dependent spatial domains with symmetry: the drop splash problem. Dynamics of Partial Differential Equations, 2011, 8, 47-67.	0.9	5
27	Marangoni-driven singularities via mean-curvature flow. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 242001.	2.1	3
28	The nature of chemical reaction-driven tip-streaming. Journal of Applied Physics, 2013, 113, .	2.5	3
29	Stability of a growing cylindrical blob. Journal of Fluid Mechanics, 2017, 827, .	3.4	3
30	Cusps and cuspidal edges at fluid interfaces: Existence and application. Physical Review E, 2015, 91, 043019.	2.1	2
31	Soap film catastrophes. Journal of Fluid Mechanics, 2021, 926, .	3.4	2
32	Liquid film dewetting induced by impulsive Joule heating. Physical Review Fluids, 2017, 2, .	2.5	2
33	Physics of singularities in pressure-impulse theory. Physical Review Fluids, 2018, 3, .	2.5	2
34	A low-dimensional model of separation bubbles. Physica D: Nonlinear Phenomena, 2009, 238, 1152-1160.	2.8	1
35	Singular structures on liquid rims. Physics of Fluids, 2014, 26, 032109.	4.0	1
36	Viscosity, surface tension and gravity effects on acoustic reflection and refraction. Journal of Fluid Mechanics, 2019, 860, 822-836.	3.4	1

#	ARTICLE	IF	CITATIONS
37	Controlling chaos by the system size. Scientific Reports, 2021, 11, 8703.	3.3	1
38	Impulse-driven drop. Journal of Fluid Mechanics, 2020, 895, .	3.4	0