

Dmitri Tseluiko

List of Publications by Year in descending order

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38
papers

906
citations

394421

19
h-index

454955

30
g-index

38
all docs

38
docs citations

38
times ranked

451
citing authors

#	ARTICLE	IF	CITATIONS
1	Wave evolution on electrified falling films. <i>Journal of Fluid Mechanics</i> , 2006, 556, 361.	3.4	83
2	Nonlinear waves in counter-current gas-liquid film flow. <i>Journal of Fluid Mechanics</i> , 2011, 673, 19-59.	3.4	65
3	Electrified viscous thin film flow over topography. <i>Journal of Fluid Mechanics</i> , 2008, 597, 449-475.	3.4	60
4	Liquid Film Coating a Fiber as a Model System for the Formation of Bound States in Active Dispersive-Dissipative Nonlinear Media. <i>Physical Review Letters</i> , 2009, 103, 234501.	7.8	51
5	Stability of film flow over inclined topography based on a long-wave nonlinear model. <i>Journal of Fluid Mechanics</i> , 2013, 729, 638-671.	3.4	45
6	Noise Induced State Transitions, Intermittency, and Universality in the Noisy Kuramoto-Sivashinsky Equation. <i>Physical Review Letters</i> , 2011, 106, 060602.	7.8	44
7	Rigorous coherent-structure theory for falling liquid films: Viscous dispersion effects on bound-state formation and self-organization. <i>Physics of Fluids</i> , 2011, 23, .	4.0	44
8	Effect of an electric field on film flow down a corrugated wall at zero Reynolds number. <i>Physics of Fluids</i> , 2008, 20, .	4.0	37
9	A global attracting set for nonlocal Kuramoto-Sivashinsky equations arising in interfacial electrohydrodynamics. <i>European Journal of Applied Mathematics</i> , 2006, 17, 677.	2.9	33
10	Dynamics of a liquid film sheared by a co-flowing turbulent gas. <i>International Journal of Multiphase Flow</i> , 2013, 56, 93-104.	3.4	33
11	Nonlinear Dynamics of Electrified Thin Liquid Films. <i>SIAM Journal on Applied Mathematics</i> , 2007, 67, 1310-1329.	1.8	31
12	Pulse dynamics in low-Reynolds-number interfacial hydrodynamics: Experiments and theory. <i>Physica D: Nonlinear Phenomena</i> , 2010, 239, 2000-2010.	2.8	28
13	Continuous and Discontinuous Dynamic Unbinding Transitions in Drawn Film Flow. <i>Physical Review Letters</i> , 2014, 112, 137803.	7.8	27
14	Absolute and convective instabilities in counter-current gas-liquid film flows. <i>Journal of Fluid Mechanics</i> , 2015, 763, 166-201.	3.4	27
15	Bifurcation analysis of the behavior of partially wetting liquids on a rotating cylinder. <i>Physics of Fluids</i> , 2016, 28, 082102.	4.0	23
16	Healing capillary films. <i>Journal of Fluid Mechanics</i> , 2018, 838, 404-434.	3.4	23
17	Weak interaction of solitary pulses in active dispersive-dissipative nonlinear media. <i>IMA Journal of Applied Mathematics</i> , 2014, 79, 274-299.	1.6	21
18	Additive noise effects in active nonlinear spatially extended systems. <i>European Journal of Applied Mathematics</i> , 2012, 23, 563-591.	2.9	20

#	ARTICLE	IF	CITATIONS
19	Collapsed heteroclinic snaking near a heteroclinic chain in dragged meniscus problems. <i>European Physical Journal E</i> , 2014, 37, 33.	1.6	19
20	Binary interactions of solitary pulses in falling liquid films. <i>IMA Journal of Applied Mathematics</i> , 2012, 77, 408-419.	1.6	18
21	Interaction of solitary pulses in active dispersiveâ€“dissipative media. <i>Proceedings of the Estonian Academy of Sciences</i> , 2010, 59, 139.	1.5	16
22	A homotopy continuation approach for analysing finite-time singularities in thin liquid films. <i>IMA Journal of Applied Mathematics</i> , 2013, 78, 762-776.	1.6	15
23	Effect of inertia on electrified film flow over a wavy wall. <i>Journal of Engineering Mathematics</i> , 2009, 65, 229-242.	1.2	14
24	Falling liquid films with blowing and suction. <i>Journal of Fluid Mechanics</i> , 2016, 787, 292-330.	3.4	14
25	Viscous Electrified Film Flow over Step Topography. <i>SIAM Journal on Applied Mathematics</i> , 2009, 70, 845-865.	1.8	13
26	Wave interactions on a viscous film coating a vertical fibre: Formation of bound states. <i>Chemical Engineering and Processing: Process Intensification</i> , 2011, 50, 519-524.	3.6	13
27	Dynamics of an electrostatically modified Kuramotoâ€“Sivashinskyâ€“Kortewegâ€“de Vries equation arising in falling film flows. <i>Physical Review E</i> , 2010, 82, 016322.	2.1	12
28	Electrified film flow over step topography at zero Reynolds number: an analytical and computational study. <i>Journal of Engineering Mathematics</i> , 2011, 69, 169-183.	1.2	12
29	Self-similar finite-time singularity formation in degenerate parabolic equations arising in thin-film flows. <i>Nonlinearity</i> , 2017, 30, 2647-2666.	1.4	12
30	Electrified falling-film flow over topography in the presence of a finite electrode. <i>Journal of Engineering Mathematics</i> , 2010, 68, 339-353.	1.2	10
31	Pulse dynamics in a power-law falling film. <i>Journal of Fluid Mechanics</i> , 2014, 747, 460-480.	3.4	9
32	Coherent Structures in Nonlocal Dispersive Active-Dissipative Systems. <i>SIAM Journal on Applied Mathematics</i> , 2015, 75, 538-563.	1.8	6
33	Effect of driving on coarsening dynamics in phase-separating systems. <i>Nonlinearity</i> , 2020, 33, 4449-4483.	1.4	6
34	Dynamics of a thin film flowing down a heated wall with finite thermal diffusivity. <i>Physical Review Fluids</i> , 2016, 1, .	2.5	6
35	Numerical Study of a Non-local Weakly Nonlinear Model for a Liquid Film Sheared by a Turbulent Gas. <i>Procedia IUTAM</i> , 2014, 11, 98-109.	1.2	5
36	Deformation and dewetting of liquid films under gas jets. <i>Journal of Fluid Mechanics</i> , 2020, 905, .	3.4	5

#	ARTICLE	IF	CITATIONS
37	Stability of Two-Dimensional Liquid Foams under Externally Applied Electric Fields. <i>Langmuir</i> , 2022, 38, 6305-6321.	3.5	4
38	Coherent structures theory for the generalized Kuramoto-Sivashinsky equation. <i>Journal of Physics: Conference Series</i> , 2010, 216, 012018.	0.4	2