Dmitri Tseluiko

List of Publications by Year
in descending order

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	Stability of Two-Dimensional Liquid Foams under Externally Applied Electric Fields. Langmuir, 2022, 38, 6305-6321.	3.5	4
2	Deformation and dewetting of liquid films under gas jets. Journal of Fluid Mechanics, 2020, 905, .	3.4	5
3	Effect of driving on coarsening dynamics in phase-separating systems. Nonlinearity, 2020, 33, 4449-4483.	1.4	6
4	Healing capillary films. Journal of Fluid Mechanics, 2018, 838, 404-434.	3.4	23
5	Self-similar finite-time singularity formation in degenerate parabolic equations arising in thin-film flows. Nonlinearity, 2017, 30, 2647-2666.	1.4	12
6	Falling liquid films with blowing and suction. Journal of Fluid Mechanics, 2016, 787, 292-330.	3.4	14
7	Bifurcation analysis of the behavior of partially wetting liquids on a rotating cylinder. Physics of Fluids, 2016, 28, 082102.	4.0	23
8	Dynamics of a thin film flowing down a heated wall with finite thermal diffusivity. Physical Review Fluids, 2016, 1, .	2.5	6
9	Absolute and convective instabilities in counter-current gasâ€"liquid film flows. Journal of Fluid Mechanics, 2015, 763, 166-201.	3.4	27
10	Coherent Structures in Nonlocal Dispersive Active-Dissipative Systems. SIAM Journal on Applied Mathematics, 2015, 75, 538-563.	1.8	6
11	Continuous and Discontinuous Dynamic Unbinding Transitions in Drawn Film Flow. Physical Review Letters, 2014, 112, 137803.	7.8	27
12	Numerical Study of a Non-local Weakly Nonlinear Model for a Liquid Film Sheared by a Turbulent Gas. Procedia IUTAM, 2014, 11, 98-109.	1.2	5
13	Weak interaction of solitary pulses in active dispersive-dissipative nonlinear media. IMA Journal of Applied Mathematics, 2014, 79, 274-299.	1.6	21
14	Collapsed heteroclinic snaking near a heteroclinic chain in dragged meniscus problems. European Physical Journal E, 2014, 37, 33.	1.6	19
15	Pulse dynamics in a power-law falling film. Journal of Fluid Mechanics, 2014, 747, 460-480.	3.4	9
16	Stability of film flow over inclined topography based on a long-wave nonlinear model. Journal of Fluid Mechanics, 2013, 729, 638-671.	3.4	45
17	Dynamics of a liquid film sheared by a co-flowing turbulent gas. International Journal of Multiphase Flow, 2013, 56, 93-104.	3.4	33
18	A homotopy continuation approach for analysing finite-time singularities in thin liquid films. IMA Journal of Applied Mathematics, 2013, 78, 762-776.	1.6	15

#	Article	IF	Citations
19	Additive noise effects in active nonlinear spatially extended systems. European Journal of Applied Mathematics, 2012, 23, 563-591.	2.9	20
20	Binary interactions of solitary pulses in falling liquid films. IMA Journal of Applied Mathematics, 2012, 77, 408-419.	1.6	18
21	Nonlinear waves in counter-current gas–liquid film flow. Journal of Fluid Mechanics, 2011, 673, 19-59.	3.4	65
22	Electrified film flow over step topography at zero Reynolds number: an analytical and computational study. Journal of Engineering Mathematics, 2011, 69, 169-183.	1.2	12
23	Wave interactions on a viscous film coating a vertical fibre: Formation of bound states. Chemical Engineering and Processing: Process Intensification, 2011, 50, 519-524.	3.6	13
24	Noise Induced State Transitions, Intermittency, and Universality in the Noisy Kuramoto-Sivashinksy Equation. Physical Review Letters, 2011, 106, 060602.	7.8	44
25	Rigorous coherent-structure theory for falling liquid films: Viscous dispersion effects on bound-state formation and self-organization. Physics of Fluids, 2011, 23, .	4.0	44
26	Coherent structures theory for the generalized Kuramoto-Sivashinsky equation. Journal of Physics: Conference Series, 2010, 216, 012018.	0.4	2
27	Pulse dynamics in low-Reynolds-number interfacial hydrodynamics: Experiments and theory. Physica D: Nonlinear Phenomena, 2010, 239, 2000-2010.	2.8	28
28	Electrified falling-film flow over topography in the presence of a finite electrode. Journal of Engineering Mathematics, 2010, 68, 339-353.	1.2	10
29	Interaction of solitary pulses in active dispersive–dissipative media. Proceedings of the Estonian Academy of Sciences, 2010, 59, 139.	1.5	16
30	Dynamics of an electrostatically modified Kuramoto–Sivashinsky–Korteweg–de Vries equation arising in falling film flows. Physical Review E, 2010, 82, 016322.	2.1	12
31	Liquid Film Coating a Fiber as a Model System for the Formation of Bound States in Active Dispersive-Dissipative Nonlinear Media. Physical Review Letters, 2009, 103, 234501.	7.8	51
32	Effect of inertia on electrified film flow over a wavy wall. Journal of Engineering Mathematics, 2009, 65, 229-242.	1.2	14
33	Viscous Electrified Film Flow over Step Topography. SIAM Journal on Applied Mathematics, 2009, 70, 845-865.	1.8	13
34	Effect of an electric field on film flow down a corrugated wall at zero Reynolds number. Physics of Fluids, 2008, 20, .	4.0	37
35	Electrified viscous thin film flow over topography. Journal of Fluid Mechanics, 2008, 597, 449-475.	3.4	60
36	Nonlinear Dynamics of Electrified Thin Liquid Films. SIAM Journal on Applied Mathematics, 2007, 67, 1310-1329.	1.8	31

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37	Wave evolution on electrified falling films. Journal of Fluid Mechanics, 2006, 556, 361.	3.4	83
38	A global attracting set for nonlocal Kuramotoâ€"Sivashinsky equations arising in interfacial electrohydrodynamics. European Journal of Applied Mathematics, 2006, 17, 677.	2.9	33