

Serafim Kalliadasis

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

167
papers

3,720
citations

34
h-index

51
g-index

171
ext. papers

4,094
ext. citations

3.1
avg, IF

5.69
L-index

#	Paper	IF	Citations
167	Physics-constrained Bayesian inference of state functions in classical density-functional theory.. <i>Journal of Chemical Physics</i> , 2022 , 156, 074105	3.9	0
166	A positivity-preserving scheme for fluctuating hydrodynamics. <i>Journal of Computational Physics</i> , 2022 , 111248	4.1	2
165	Surface nanodrops and nanobubbles: a classical density functional theory study. <i>Journal of Fluid Mechanics</i> , 2021 , 913,	3.7	4
164	A finite-volume scheme for gradient-flow equations with non-homogeneous diffusion. <i>Computers and Mathematics With Applications</i> , 2021 , 89, 150-162	2.7	0
163	Enhancement of damaged-image prediction through Cahn-Hilliard image inpainting. <i>Royal Society Open Science</i> , 2021 , 8, 201294	3.3	0
162	Understanding Soaring Coronavirus Cases and the Effect of Contagion Policies in the UK. <i>Vaccines</i> , 2021 , 9,	5.3	1
161	A finite-volume method for fluctuating dynamical density functional theory. <i>Journal of Computational Physics</i> , 2021 , 428, 109796	4.1	5
160	High-Order Well-Balanced Finite-Volume Schemes for Hydrodynamic Equations With Nonlocal Free Energy. <i>SIAM Journal of Scientific Computing</i> , 2021 , 43, A828-A858	2.6	2
159	Memory effects in fluctuating dynamic density-functional theory: theory and simulations. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020 , 53, 445007	2	5
158	Well-Balanced Finite-Volume Schemes for Hydrodynamic Equations with General Free Energy. <i>Multiscale Modeling and Simulation</i> , 2020 , 18, 502-541	1.8	7
157	Robust low-dimensional modelling of falling liquid films subject to variable wall heating. <i>Journal of Fluid Mechanics</i> , 2019 , 877, 844-881	3.7	3
156	Macroscopic relations for microscopic properties at the interface between solid substrates and dense fluids. <i>Journal of Chemical Physics</i> , 2019 , 150, 214705	3.9	10
155	Hydrodynamic Characterization of Phase Separation in Devices with Microfabricated Capillaries. <i>Langmuir</i> , 2019 , 35, 8199-8209	4	4
154	Dynamics of the Desai-Zwanzig model in multiwell and random energy landscapes. <i>Physical Review E</i> , 2019 , 99, 032109	2.4	3
153	Instability, Rupture and Fluctuations in Thin Liquid Films: Theory and Computations. <i>Journal of Statistical Physics</i> , 2019 , 174, 579-604	1.5	13
152	A linear, second-order, energy stable, fully adaptive finite element method for phase-field modelling of wetting phenomena. <i>Journal of Computational Physics: X</i> , 2019 , 2, 100010	1	1
151	Droplet dynamics on chemically heterogeneous substrates. <i>Journal of Fluid Mechanics</i> , 2019 , 859, 321-361	3.7	8

150	Recent advances in the evolution of interfaces: thermodynamics, upscaling, and universality. <i>Computational Materials Science</i> , 2019 , 156, 441-451	3.2	2
149	Healing capillary films. <i>Journal of Fluid Mechanics</i> , 2018 , 838, 404-434	3.7	13
148	Discrete Self-Similarity in Interfacial Hydrodynamics and the Formation of Iterated Structures. <i>Physical Review Letters</i> , 2018 , 120, 034505	7.4	9
147	Solitary waves on falling liquid films in the inertia-dominated regime. <i>Journal of Fluid Mechanics</i> , 2018 , 837, 491-519	3.7	27
146	On the equilibrium contact angle of sessile liquid drops from molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2018 , 148, 164704	3.9	22
145	The pressure tensor across a liquid-vapour interface. <i>Journal of Chemical Physics</i> , 2018 , 149, 044705	3.9	12
144	Classical Density-Functional Theory Studies of Fluid Adsorption on Nanopatterned Planar Surfaces. <i>Springer Proceedings in Mathematics and Statistics</i> , 2018 , 171-185	0.2	1
143	Continuation methods for time-periodic travelling-wave solutions to evolution equations. <i>Applied Mathematics Letters</i> , 2018 , 86, 291-297	3.5	2
142	Microscopic aspects of wetting using classical density functional theory. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 274003	1.8	6
141	General framework for nonclassical nucleation. <i>New Journal of Physics</i> , 2018 , 20, 083019	2.9	8
140	Wetting of a plane with a narrow solvophobic stripe. <i>Molecular Physics</i> , 2018 , 116, 1990-1997	1.7	8
139	Experimental investigations of liquid falling films flowing under an inclined planar substrate. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	17
138	Two-dimensional pulse dynamics and the formation of bound states on electrified falling films. <i>Journal of Fluid Mechanics</i> , 2018 , 855, 210-235	3.7	8
137	The vicinity of an equilibrium three-phase contact line using density-functional theory: density profiles normal to the fluid interface. <i>Molecular Physics</i> , 2018 , 116, 2239-2243	1.7	2
136	Pseudospectral methods for density functional theory in bounded and unbounded domains. <i>Journal of Computational Physics</i> , 2017 , 334, 639-664	4.1	16
135	Classical density functional study of wetting transitions on nanopatterned surfaces. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 094001	1.8	10
134	Self-similar finite-time singularity formation in degenerate parabolic equations arising in thin-film flows. <i>Nonlinearity</i> , 2017 , 30, 2647-2666	1.7	9
133	Controlling roughening processes in the stochastic Kuramoto-Bivashinsky equation. <i>Physica D: Nonlinear Phenomena</i> , 2017 , 348, 33-43	3.3	7

132	Rate of Convergence of General Phase Field Equations in Strongly Heterogeneous Media Toward Their Homogenized Limit. <i>SIAM Journal on Applied Mathematics</i> , 2017 , 77, 1471-1492	1.8	3
131	Nonequilibrium molecular dynamics simulations of nanoconfined fluids at solid-liquid interfaces. <i>Journal of Chemical Physics</i> , 2017 , 146, 244507	3.9	25
130	General framework for fluctuating dynamic density functional theory. <i>New Journal of Physics</i> , 2017 , 19, 123022	2.9	15
129	Detailed hydrodynamic characterization of harmonically excited falling-film flows: A combined experimental and computational study. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	20
128	Statistical characteristics of falling-film flows: A synergistic approach at the crossroads of direct numerical simulations and experiments. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	7
127	Chaotic versus stochastic behavior in active-dissipative nonlinear systems. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	10
126	Mean-field phenomenology of wetting in nanogrooves. <i>Molecular Physics</i> , 2016 , 114, 2688-2699	1.7	7
125	Self-similarity of solitary waves on inertia-dominated falling liquid films. <i>Physical Review E</i> , 2016 , 93, 033121	1.1	11
124	General framework for adsorption processes on dynamic interfaces. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016 , 49, 125502	2	1
123	Dynamics of a thin film flowing down a heated wall with finite thermal diffusivity. <i>Physical Review Fluids</i> , 2016 , 1,	2.8	5
122	Dynamical Density Functional Theory for Orientable Colloids Including Inertia and Hydrodynamic Interactions. <i>Journal of Statistical Physics</i> , 2016 , 164, 785-809	1.5	14
121	Dynamical density functional theory with hydrodynamic interactions in confined geometries. <i>Journal of Chemical Physics</i> , 2016 , 145, 214106	3.9	23
120	Complete prewetting. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 275001	1.8	12
119	Dynamics of Fattening and Thinning 2D Sessile Droplets. <i>Langmuir</i> , 2016 , 32, 4736-45	4	9
118	Noise-induced transitions in rugged energy landscapes. <i>Physical Review E</i> , 2016 , 94, 032107	2.4	5
117	A comparison of slip, disjoining pressure, and interface formation models for contact line motion through asymptotic analysis of thin two-dimensional droplet spreading. <i>Journal of Engineering Mathematics</i> , 2015 , 94, 19-41	1.2	41
116	A new framework for extracting coarse-grained models from time series with multiscale structure. <i>Journal of Computational Physics</i> , 2015 , 296, 314-328	4.1	9
115	Density functional study of condensation in capped capillaries. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 275104	1.8	15

114	Nonlinear Forecasting of the Generalized Kuramoto-Sivashinsky Equation. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2015 , 25, 1530015	2	13
113	Absolute and convective instabilities in counter-current gas-liquid film flows. <i>Journal of Fluid Mechanics</i> , 2015 , 763, 166-201	3.7	20
112	Wetting of prototypical one- and two-dimensional systems: thermodynamics and density functional theory. <i>Journal of Chemical Physics</i> , 2015 , 142, 034708	3.9	26
111	Coherent Structures in Nonlocal Dispersive Active-Dissipative Systems. <i>SIAM Journal on Applied Mathematics</i> , 2015 , 75, 538-563	1.8	6
110	Data-driven coarse graining in action: Modeling and prediction of complex systems. <i>Physical Review E</i> , 2015 , 92, 042139	2.4	14
109	Controlling spatiotemporal chaos in active dissipative-dispersive nonlinear systems. <i>Physical Review E</i> , 2015 , 92, 022912	2.4	14
108	Nanoscale Fluid Structure of Liquid-solid-vapour Contact Lines for a Wide Range of Contact Angles. <i>Mathematical Modelling of Natural Phenomena</i> , 2015 , 10, 111-125	3	11
107	The asymptotics of the moving contact line: cracking an old nut. <i>Journal of Fluid Mechanics</i> , 2015 , 764, 445-462	3.7	28
106	A new mode reduction strategy for the generalized Kuramoto-Sivashinsky equation. <i>IMA Journal of Applied Mathematics</i> , 2015 , 80, 273-301	1	10
105	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		4
104	Fluid structure in the immediate vicinity of an equilibrium three-phase contact line and assessment of disjoining pressure models using density functional theory. <i>Physics of Fluids</i> , 2014 , 26, 072001	4.4	32
103	Effective macroscopic interfacial transport equations in strongly heterogeneous environments for general homogeneous free energies. <i>Applied Mathematics Letters</i> , 2014 , 35, 12-17	3.5	8
102	Pulse dynamics in a power-law falling film. <i>Journal of Fluid Mechanics</i> , 2014 , 747, 460-480	3.7	8
101	Low-frequency vibrations of two-dimensional droplets on heterogeneous substrates. <i>Journal of Fluid Mechanics</i> , 2014 , 754, 515-549	3.7	15
100	Operating ranges of gas-liquid capillary microseparators: Experiments and theory. <i>Chemical Engineering Science</i> , 2014 , 114, 30-39	4.4	13
99	Multi-species dynamical density functional theory. <i>Journal of Chemical Physics</i> , 2013 , 138, 144904	3.9	21
98	Unifying binary fluid diffuse-interface models in the sharp-interface limit. <i>Journal of Fluid Mechanics</i> , 2013 , 736, 5-43	3.7	22
97	Droplet motion on inclined heterogeneous substrates. <i>Journal of Fluid Mechanics</i> , 2013 , 725, 462-491	3.7	54

96	The contact line behaviour of solid-liquid-gas diffuse-interface models. <i>Physics of Fluids</i> , 2013 , 25, 092114	4.4	30
95	Dynamics of a liquid film sheared by a co-flowing turbulent gas. <i>International Journal of Multiphase Flow</i> , 2013 , 56, 93-104	3.6	27
94	On the moving contact line singularity: asymptotics of a diffuse-interface model. <i>European Physical Journal E</i> , 2013 , 36, 26	1.5	25
93	Geometry-induced phase transition in fluids: capillary prewetting. <i>Physical Review E</i> , 2013 , 87, 020402	2.4	36
92	Bound-state formation in interfacial turbulence: direct numerical simulations and theory. <i>Journal of Fluid Mechanics</i> , 2013 , 716,	3.7	10
91	Unification of dynamic density functional theory for colloidal fluids to include inertia and hydrodynamic interactions: derivation and numerical experiments. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 035101	1.8	38
90	New stochastic mode reduction strategy for dissipative systems. <i>Physical Review Letters</i> , 2013 , 110, 244101	1.0	12
89	Semiparametric Drift and Diffusion Estimation for Multiscale Diffusions. <i>Multiscale Modeling and Simulation</i> , 2013 , 11, 442-473	1.8	14
88	Derivation of effective macroscopic Stokes-Cahn-Hilliard equations for periodic immiscible flows in porous media. <i>Nonlinearity</i> , 2013 , 26, 3259-3277	1.7	21
87	Bound State Formation and Self-organization in Interfacial Turbulence. <i>Springer Proceedings in Complexity</i> , 2013 , 1011-1016	0.3	
86	Experimental reaction-driven liquid film fingering instability. <i>Chemical Physics Letters</i> , 2012 , 534, 13-18	2.5	10
85	Equilibrium gas-liquid-solid contact angle from density-functional theory. <i>Journal of Fluid Mechanics</i> , 2012 , 692, 53-77	3.7	24
84	Isothermal Case: Two-Dimensional Flow. <i>Applied Mathematical Sciences (Switzerland)</i> , 2012 , 193-275	0.9	1
83	General dynamical density functional theory for classical fluids. <i>Physical Review Letters</i> , 2012 , 109, 120603	4.4	68
82	Spectral methods for the equations of classical density-functional theory: relaxation dynamics of microscopic films. <i>Journal of Chemical Physics</i> , 2012 , 136, 124113	3.9	31
81	Falling Liquid Films. <i>Applied Mathematical Sciences (Switzerland)</i> , 2012 ,	0.9	148
80	The Overdamped Limit of Dynamic Density Functional Theory: Rigorous Results. <i>Multiscale Modeling and Simulation</i> , 2012 , 10, 633-663	1.8	29
79	Influence of gravity on the spreading of two-dimensional droplets over topographical substrates. <i>Journal of Engineering Mathematics</i> , 2012 , 73, 3-16	1.2	12

78	Additive noise effects in active nonlinear spatially extended systems. <i>European Journal of Applied Mathematics</i> , 2012 , 23, 563-591	1	18
77	Upscaled phase-field models for interfacial dynamics in strongly heterogeneous domains. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012 , 468, 3705-3724 ^{2,4}	2.4	23
76	Binary interactions of solitary pulses in falling liquid films. <i>IMA Journal of Applied Mathematics</i> , 2012 , 77, 408-419	1	17
75	Slip or not slip? A methodical examination of the interface formation model using two-dimensional droplet spreading on a horizontal planar substrate as a prototype system. <i>Physics of Fluids</i> , 2012 , 24, 082105	4.4	40
74	Introduction to the focus issue: chemo-hydrodynamic patterns and instabilities. <i>Chaos</i> , 2012 , 22, 037101 ^{3,3}	3.3	34
73	Disorder-induced hysteresis and nonlocality of contact line motion in chemically heterogeneous microchannels. <i>Physics of Fluids</i> , 2012 , 24, 032108	4.4	27
72	Wavy regimes of film flow down a fiber. <i>Physical Review E</i> , 2012 , 85, 046302	2.4	27
71	Dynamics of a Reactive Thin Film. <i>Mathematical Modelling of Natural Phenomena</i> , 2012 , 7, 99-145	3	6
70	Open Questions and Suggestions for Further Research. <i>Applied Mathematical Sciences (Switzerland)</i> , 2012 , 351-355	0.9	
69	Contact lines over random topographical substrates. Part 1. Statics. <i>Journal of Fluid Mechanics</i> , 2011 , 672, 358-383	3.7	23
68	Contact lines over random topographical substrates. Part 2. Dynamics. <i>Journal of Fluid Mechanics</i> , 2011 , 672, 384-410	3.7	31
67	Nonlinear waves in counter-current gas-liquid film flow. <i>Journal of Fluid Mechanics</i> , 2011 , 673, 19-59	3.7	50
66	Critical assessment of effective interfacial potentials based on a density functional theory for wetting phenomena on curved substrates. <i>European Physical Journal: Special Topics</i> , 2011 , 197, 185-191	2.3	4
65	Discussion notes on Measures of wettability of solid surfaces by A. Marmur. <i>European Physical Journal: Special Topics</i> , 2011 , 197, 199-200	2.3	
64	Discussion notes on Droplets evaporation: Problems and solutions by S. Semenov et al.. <i>European Physical Journal: Special Topics</i> , 2011 , 197, 279-280	2.3	
63	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	3.7	12
62	Dynamics of moving contact lines: A comparison between slip and precursor film models. <i>Europhysics Letters</i> , 2011 , 94, 64004	1.6	53
61	Droplet spreading on chemically heterogeneous substrates. <i>Physical Review E</i> , 2011 , 84, 036305	2.4	45

60	Noise induced state transitions, intermittency, and universality in the noisy Kuramoto-Sivashinsky equation. <i>Physical Review Letters</i> , 2011 , 106, 060602	7.4	39
59	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, 044104	4.4	39
58	Interaction of solitary pulses in active dispersive-dissipative media. <i>Proceedings of the Estonian Academy of Sciences</i> , 2010 , 59, 139	1.6	14
57	Two-dimensional droplet spreading over random topographical substrates. <i>Physical Review Letters</i> , 2010 , 104, 084501	7.4	87
56	Three-dimensional localized coherent structures of surface turbulence: Model validation with experiments and further computations. <i>Physical Review E</i> , 2010 , 82, 036322	2.4	14
55	Pulse dynamics in low-Reynolds-number interfacial hydrodynamics: Experiments and theory. <i>Physica D: Nonlinear Phenomena</i> , 2010 , 239, 2000-2010	3.3	26
54	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	7.4	44
53	Interfacial instabilities driven by chemical reactions. <i>European Physical Journal: Special Topics</i> , 2009 , 166, 121-125	2.3	3
52	Two-dimensional droplet spreading over topographical substrates. <i>Physics of Fluids</i> , 2009 , 21, 092102	4.4	65
51	Dynamics of a falling film with solutal Marangoni effect. <i>Physical Review E</i> , 2008 , 78, 036312	2.4	28
50	Interaction of three-dimensional hydrodynamic and thermocapillary instabilities in film flows. <i>Physical Review E</i> , 2008 , 78, 066311	2.4	33
49	Spontaneous channeling of solitary pulses in heated-film flows. <i>Europhysics Letters</i> , 2008 , 84, 64002	1.6	11
48	Modelling film flows down a fibre. <i>Journal of Fluid Mechanics</i> , 2008 , 603, 431-462	3.7	88
47	Heated falling films. <i>Journal of Fluid Mechanics</i> , 2007 , 592, 295-334	3.7	59
46	Free-surface thin-film flows over topography: influence of inertia and viscoelasticity. <i>Journal of Fluid Mechanics</i> , 2007 , 578, 271-293	3.7	40
45	Interfacial hydrodynamic waves driven by chemical reactions. <i>Journal of Engineering Mathematics</i> , 2007 , 59, 207-220	1.2	10
44	Three-dimensional localized coherent structures of surface turbulence. I. Scenarios of two-dimensional to three-dimensional transition. <i>Physics of Fluids</i> , 2007 , 19, 114103	4.4	34
43	Three-dimensional localized coherent structures of surface turbulence. II. Solitons. <i>Physics of Fluids</i> , 2007 , 19, 114104	4.4	25

42	Dynamics of a horizontal thin liquid film in the presence of reactive surfactants. <i>Physics of Fluids</i> , 2007 , 19, 112102	4.4	36
41	Free-surface thin-film flows over uniformly heated topography. <i>Physical Review E</i> , 2007 , 75, 026306	2.4	48
40	Absolute and convective instabilities of a viscous film flowing down a vertical fiber. <i>Physical Review Letters</i> , 2007 , 98, 244502	7.4	79
39	Falling Films Under Complicated Conditions 2007 , 137-190		2
38	Suppressing falling film instabilities by Marangoni forces. <i>Physics of Fluids</i> , 2006 , 18, 042111	4.4	23
37	Three-dimensional solitons in a falling liquid film. <i>Doklady Physics</i> , 2006 , 51, 37-39	0.8	4
36	Thermocapillary long waves in a liquid film flow. Part 1. Low-dimensional formulation. <i>Journal of Fluid Mechanics</i> , 2005 , 538, 199	3.7	76
35	Thermocapillary long waves in a liquid film flow. Part 2. Linear stability and nonlinear waves. <i>Journal of Fluid Mechanics</i> , 2005 , 538, 223	3.7	66
34	Stability of two-dimensional solitons and the 2DBD transition in a viscous liquid film falling down on a vertical wall. <i>Doklady Physics</i> , 2005 , 50, 668-670	0.8	3
33	The effect of a radical scavenger on the propagation of flames in an exothermic-endothermic system. <i>Journal of Mathematical Chemistry</i> , 2005 , 38, 203-231	2.1	2
32	Two-dimensional wave dynamics in thin films. II. Formation of lattices of interacting stationary solitary pulses. <i>Physics of Fluids</i> , 2005 , 17, 117106	4.4	10
31	Two-dimensional wave dynamics in thin films. I. Stationary solitary pulses. <i>Physics of Fluids</i> , 2005 , 17, 117105	4.4	28
30	Fingering of exothermic reaction-diffusion fronts in Hele-Shaw cells with conducting walls. <i>Journal of Chemical Physics</i> , 2005 , 123, 234503	3.9	26
29	Self-organization of two-dimensional waves in an active dispersive-dissipative nonlinear medium. <i>Physical Review Letters</i> , 2005 , 94, 224101	7.4	13
28	Dynamics of a reactive falling film at large Péclet numbers. I. Long-wave approximation. <i>Physics of Fluids</i> , 2004 , 16, 3191-3208	4.4	29
27	Dynamics of a reactive falling film at large Péclet numbers. II. Nonlinear waves far from criticality: Integral-boundary-layer approximation. <i>Physics of Fluids</i> , 2004 , 16, 3209-3226	4.4	19
26	The propagation and inhibition of an exothermic branched-chain flame with an endothermic reaction and radical scavenging. <i>Journal of Engineering Mathematics</i> , 2004 , 49, 41-55	1.2	4
25	On the Structure of the Spectra for a Class of Combustion Waves. <i>Journal of Mathematical Chemistry</i> , 2004 , 35, 309-328	2.1	3

24	Wave dynamics on a thin-liquid film falling down a heated wall. <i>Journal of Engineering Mathematics</i> , 2004 , 50, 177-208	1.2	40
23	Evans function analysis of the stability of non-adiabatic flames. <i>Combustion Theory and Modelling</i> , 2003 , 7, 545-561	1.5	10
22	The structure of flame filaments in chaotic flows. <i>Physica D: Nonlinear Phenomena</i> , 2003 , 176, 67-81	3.3	16
21	Thermocapillary instability and wave formation on a film falling down a uniformly heated plane. <i>Journal of Fluid Mechanics</i> , 2003 , 492, 303-338	3.7	102
20	Marangoni instability of a thin liquid film heated from below by a local heat source. <i>Journal of Fluid Mechanics</i> , 2003 , 475, 377-408	3.7	127
19	Wave Propagation in Spatially Distributed Excitable Media. <i>SIAM Journal on Applied Mathematics</i> , 2003 , 63, 485-509	1.8	8
18	Time-dependent free-surface thin film flows over topography. <i>Physics of Fluids</i> , 2003 , 15, 2512-2524	4.4	46
17	Mass-transport enhancement in regions bounded by rigid walls. <i>Journal of Engineering Mathematics</i> , 2002 , 42, 45-64	1.2	7
16	Quenching of Flame Propagation with Heat Loss. <i>Journal of Mathematical Chemistry</i> , 2002 , 31, 313-332	2.1	7
15	Flame quenching through endothermic reaction. <i>Journal of Engineering Mathematics</i> , 2002 , 44, 207-228	1.2	6
14	Quenching of Flame Propagation Through Endothermic Reaction. <i>Journal of Mathematical Chemistry</i> , 2002 , 32, 73-98	2.1	2
13	Dynamics of a vertically falling film in the presence of a first-order chemical reaction. <i>Physics of Fluids</i> , 2002 , 14, 2402	4.4	17
12	Rayleigh-Taylor instability of reaction-diffusion acidity fronts. <i>Journal of Chemical Physics</i> , 2002 , 117, 9395-9408	3.9	62
11	Circulation and reaction enhancement of mass transport in a cavity. <i>Chemical Engineering Science</i> , 2001 , 56, 5177-5188	4.4	4
10	Stability of free-surface thin-film flows over topography. <i>Journal of Fluid Mechanics</i> , 2001 , 448, 387-410	3.7	66
9	Nonlinear instability of a contact line driven by gravity. <i>Journal of Fluid Mechanics</i> , 2000 , 413, 355-378	3.7	40
8	Modelling complex spatiotemporal behaviour in a Couette reactor. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 2319-2327	3.6	2
7	Modelling flow-distributed oscillations in the CDIMA reaction. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 4013-4021	3.6	38

6	Filling flows, cliff erosion and cleaning flows. <i>Journal of Fluid Mechanics</i> , 1996 , 310, 365-374	3.7	21
5	Dynamics of Liquid Spreading on Solid Surfaces. <i>Industrial & Engineering Chemistry Research</i> , 1996 , 35, 2860-2874	3.9	33
4	Apparent dynamic contact angle of an advancing gas-liquid meniscus. <i>Physics of Fluids</i> , 1994 , 6, 12-23	4.4	69
3	Drop formation during coating of vertical fibres. <i>Journal of Fluid Mechanics</i> , 1994 , 261, 135-168	3.7	109
2	Inviscid free-surface flow over a periodic wall. <i>Journal of Fluid Mechanics</i> , 1991 , 226, 189-203	3.7	11
1	More than a year after the onset of the CoVid-19 pandemic in the UK: lessons learned from a minimalistic model capturing essential features including social awareness and policy making		1