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## Singular effects of surface tension in evolving Hele-Shaw flows

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#	Paper	IF	Citations
47	Detecting complex singularities of a Hele-Shaw flow. <i>Europhysics Letters</i> , <b>1997</b> , 37, 263-268	1.6	4
46	Numerical simulations of sink flow in the Hele-Shaw cell with small surface tension. <i>European Journal of Applied Mathematics</i> , <b>1997</b> , 8, 533-550	1	15
45	Small surface energy, coarse-graining, and selection of microstructure. <i>Physica D: Nonlinear Phenomena</i> , <b>1997</b> , 107, 272-289	3.3	17
44	Radial fingering in a Hele-Shaw cell: a weakly nonlinear analysis. <i>Physica D: Nonlinear Phenomena</i> , <b>1998</b> , 120, 315-328	3.3	124
43	Dynamics of closed interfaces in two-dimensional Laplacian growth. <i>Physical Review E</i> , <b>1998</b> , 57, 3063-3072	3.7	12
42	Comment on Selection of the Saffman-Taylor Finger Width in the Absence of Surface Tension: An Exact Result. <i>Physical Review Letters</i> , <b>1998</b> , 81, 4528-4528	7.4	6
41	Comment on Selection of the Saffman-Taylor Finger Width in the Absence of Surface Tension: An Exact Result. <i>Physical Review Letters</i> , <b>1998</b> , 81, 5951-5951	7.4	5
40	Modeling the singularity dynamics of a Hele-Shaw flow. <i>Physical Review E</i> , <b>1998</b> , 57, 6884-6887	2.4	4
39	Weakly Nonlinear Investigation of the Saffman-Taylor Problem in a Rectangular Hele-Shaw Cell. <i>International Journal of Modern Physics B</i> , <b>1998</b> , 12, 931-949	1.1	35
38	Singularity dynamics in a Hele-Shaw flow with surface tension. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , <b>1998</b> , 78, 159-165		1
37	A Hele-Shaw problem and the second Painlevé transcendent. <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , <b>1998</b> , 124, 169-191	0.7	16
36	Numerical study of Hele-Shaw flow with suction. <i>Physics of Fluids</i> , <b>1999</b> , 11, 2471-2486	4.4	34
35	Two-dimensional solidification and melting in potential flows. <i>Journal of Fluid Mechanics</i> , <b>1999</b> , 378, 1-18	3.7	27
34	The singular perturbation of surface tension in Hele-Shaw flows. <i>Journal of Fluid Mechanics</i> , <b>2000</b> , 409, 251-272	3.7	16
33	Existence and uniqueness for a class of nonlinear higher-order partial differential equations in the complex plane. <i>Communications on Pure and Applied Mathematics</i> , <b>2000</b> , 53, 1092-1117	2.5	25
32	Dynamics and selection of fingering patterns. Recent developments in the Saffman-Taylor problem. <i>Physics Reports</i> , <b>2000</b> , 337, 1-35	27.7	25
31	Hele-Shaw Problems in Multidimensional Spaces. <i>Journal of Nonlinear Science</i> , <b>2000</b> , 10, 275-290	2.8	12

30	Interface dynamics in hele-shaw flows with centrifugal forces: preventing cusp singularities with rotation. <i>Physical Review E</i> , <b>2000</b> , 62, R5887-90	2.4	22
29	Univalent Functions in the Dynamics of Viscous Flows. <i>Computational Methods and Function Theory</i> , <b>2001</b> , 1, 311-337	0.9	10
28	Squeeze flow of multiply-connected fluid domains in a Hele-Shaw cell. <i>Journal of Nonlinear Science</i> , <b>2001</b> , 11, 279-304	2.8	11
27	Boundary Integral Methods for Multicomponent Fluids and Multiphase Materials. <i>Journal of Computational Physics</i> , <b>2001</b> , 169, 302-362	4.1	150
26	Systematic weakly nonlinear analysis of interfacial instabilities in Hele-Shaw flows. <i>Physical Review E</i> , <b>2001</b> , 64, 016302	2.4	16
25	Effects of small surface tension in Hele-Shaw multifinger dynamics: an analytical and numerical study. <i>Physical Review E</i> , <b>2002</b> , 66, 046205	2.4	10
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23	Topological reconfiguration in expanding Hele-Shaw flow. <i>Journal of Turbulence</i> , <b>2002</b> , 3, N37	2.1	1
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20	Univalent Functions in Two-Dimensional Free Boundary Problems. <i>Acta Applicandae Mathematicae</i> , <b>2003</b> , 79, 249-280	1.1	14
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13	A dynamical mother body in a Hele-Shaw problem. <i>Physica D: Nonlinear Phenomena</i> , <b>2011</b> , 240, 1156-1163	3.3	2

12	A phase-field model of two-phase Hele-Shaw flow. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 758, 522-552	3.7	39
11	Classical and Stochastic Laplacian Growth. <i>Advances in Mathematical Fluid Mechanics</i> , <b>2014</b> ,	0.3	23
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2	Asymptotic calculation of three-dimensional thin-film effects on unsteady Hele-Shaw fingering. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>1996</b> , 354, 1065-1097	3	1
1	Wavelet Methods for a Stefan Problem. <i>Solid Mechanics and Its Applications</i> , <b>1999</b> , 129-136	0.4	