## Thomas P Witelski

## List of Publications by Year in descending order

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Uncovering the dynamics of a circadian-dopamine model influenced by the lightâ $\epsilon^{\prime \prime}$ dark cycle.
1 Mathematical Biosciences, 2022, 344, 108764.
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$7 \quad$ Nonlinear dynamics of dewetting thin films. AlMS Mathematics, 2020, 5, 4229-4259. ..... 0.7

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9 Thermal Marangoni-driven dynamics of spinning liquid films. Physical Review Fluids, 2019, 4, .
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Finite-time thin film rupture driven by modified evaporative loss. Physica D: Nonlinear Phenomena, 2017, 342, 1-15.

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19 Preface to the special issue on â€œThin films and fluid interfacesâ€: Journal of Engineering Mathematics,
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25 Anomalous exponents of self-similar blow-up solutions to an aggregation equation in odd
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27 Stability and dynamics of self-similarity in evolution equations. Journal of Engineering Mathematics,
29 On the planar extensional motion of an inertially driven liquid sheet. Physics of Fluids, 2009, 21, 042101.
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30 The subtle art of blowing bubbles. Nature Physics, 2009, 5, 315-316.6.51
31 Transient and self-similar dynamics in thin film coarsening. Physica D: Nonlinear Phenomena, 2009, 238, ..... 1.3

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Motion of wetting fronts moving into partially pre-wet soil. Advances in Water Resources, 2005, 28,
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44 Localized Marangoni forcing in driven thin films. Physica D: Nonlinear Phenomena, 2005, 209, 117-134.
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Lubrication Models with Small to Large Slip Lengths. Journal of Engineering Mathematics, 2005, 53,
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46 Introduction to Practical Asymptotics III. Journal of Engineering Mathematics, 2005, 53, 199-199.
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$47 \quad$ New Slip Regimes and the Shape of Dewetting Thin Liquid Films. Physical Review Letters, 2005, 95, 127801.

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Steady-Profile Fingering Flows in Marangoni Driven Thin Films. Physical Review Letters, 2004, 93,
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Blowup and dissipation in a critical-case unstable thin film equation. European Journal of Applied
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Mathematics, 2004, 15, 223-256.

Exact solution for the extensional flow of a viscoelastic filament. European Journal of Applied
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Intermediate asymptotics for Richards' equation in a finite layer. Journal of Engineering Mathematics, 2003, 45, 379-399.

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60 A discrete model for an ill-posed nonlinear parabolic PDE. Physica D: Nonlinear Phenomena, 2001, 160, 189-221.
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27Critical wave speeds for a family of scalar reaction-diffusion equations. Applied Mathematics Letters,
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65 ON AXISYMMETRIC TRAVELING WAVES AND RADIAL SOLUTIONS OF SEMlâ€Ł INEAR ELLIPTIC EQUATIONS. Natural Resource Modelling, 2000, 13, 339-388.Stability of Gas Bearing Sliders for Large Bearing Number: Convective Instability of the Tapered1.13SliderÂ®. Tribology Transactions, 1999, 42, 216-222.Large Bearing Number Stability Analysis for Tango Class Gas Bearing Sliders. Tribology Transactions,
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$1.1 \quad 1$Stability of self-similar solutions for van der Waals driven thin film rupture. Physics of Fluids, 1999,11, 2443-2445.
69 On Spherically Symmetric Gravitational Collapse. Journal of Statistical Physics, 1998, 93, 863-899. ..... 0.5 ..... 20Axisymmetric Surface Diffusion: Dynamics and Stability of Self-Similar Pinchoff. Journal of StatisticalPhysics, 1998, 93, 725-776.
75 On the properties of polymer globules in the high density limit. Journal of Chemical Physics, 1998, 108,
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