Yuriko Renardy

List of Publications by Year
in descending order

32 papers	1,964 citations	361413 20 h-index	434195 31 g-index
32 all docs	32 docs citations	32 times ranked	1297 citing authors

#	Article	IF	Citations
1	PROST: A Parabolic Reconstruction of Surface Tension for the Volume-of-Fluid Method. Journal of Computational Physics, 2002, 183, 400-421.	3.8	446
2	Numerical Simulation of Moving Contact Line Problems Using a Volume-of-Fluid Method. Journal of Computational Physics, 2001, 171, 243-263.	3.8	229
3	Instability of the flow of two immiscible liquids with different viscosities in a pipe. Journal of Fluid Mechanics, 1984, 141, 309-317.	3.4	181
4	Linear stability of plane couette flow of an upper convected maxwell fluid. Journal of Non-Newtonian Fluid Mechanics, 1986, 22, 23-33.	2.4	130
5	Structure of the spectrum in zero Reynolds number shear flow of the UCM and Oldroyd-B liquids. Journal of Non-Newtonian Fluid Mechanics, 1999, 80, 251-268.	2.4	94
6	Numerical Study of Flows of Two Immiscible Liquids at Low Reynolds Number. SIAM Review, 2000, 42, 417-439.	9.5	92
7	Stability of the interface in two-layer couette flow of upper convected maxwell liquids. Journal of Non-Newtonian Fluid Mechanics, 1988, 28, 99-115.	2.4	89
8	Instability at the interface between two shearing fluids in a channel. Physics of Fluids, 1985, 28, 3441.	1.4	79
9	Direct simulation of unsteady axisymmetric coreâ€“annular flow with high viscosity ratio. Journal of Fluid Mechanics, 1999, 391, 123-149.	3.4	73
10	Couette flow of two fluids between concentric cylinders. Journal of Fluid Mechanics, 1985, 150, 381-394.	3.4	64
11	The thin-layer effect and interfacial stability in a two-layer Couette flow with similar liquids. Physics of Fluids, 1987, 30, 1627.	1.4	56
12	Vortex rings of one fluid in another in free fall. Physics of Fluids A, Fluid Dynamics, 1992, 4, 567-580.	1.6	54
13	Oscillatory instability in a Bèˆnard problem of two fluids. Physics of Fluids, 1985, 28, 788.	1.4	50
14	Influence of viscoelasticity on drop deformation and orientation in shear flow. Part 2: Dynamics. Journal of Non-Newtonian Fluid Mechanics, 2009, 156, 44-57.	2.4	41
15	Viscosity and density stratification in vertical Poiseuille flow. Physics of Fluids, 1987, 30, 1638.	1.4	40
16	Derivation of amplitude equations and analysis of sideband instabilities in twoâ€layer flows. Physics of Fluids A, Fluid Dynamics, 1993, 5, 2738-2762.	1.6	40
17	Influence of viscoelasticity on drop deformation and orientation in shear flow. Journal of Non-Newtonian Fluid Mechanics, 2009, 156, 29-43.	2.4	38
18	Weakly nonlinear behavior of periodic disturbances in twoâ€layer Couetteâ€“Poiseuille flow. Physics of Fluids A, Fluid Dynamics, 1989, 1, 1666-1676.	1.6	33

#	Article	IF	Citations
19	Inertia-induced breakup of highly viscous drops subjected to simple shear. Physics of Fluids, 2003, 15, 1351-1354.	4.0	30
20	Experimental observation and matching numerical simulation for the deformation and breakup of immiscible drops in oscillatory shear. Journal of Rheology, 2002, 46, 1279-1293.	2.6	23
21	An experimental and numerical investigation of the dynamics of microconfined droplets in systems with one viscoelastic phase. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 52-62.	2.4	19
22	Effect of startup conditions on drop breakup under shear with inertia. International Journal of Multiphase Flow, 2008, 34, 1185-1189.	3.4	14
23	A volume-of-fluid formulation for the study of co-flowing fluids governed by the Hele-Shaw equations. Physics of Fluids, 2013, 25, .	4.0	14
24	Stability of shear flows of viscoelastic fluids under perturbations perpendicular to the plane of flow. Journal of Non-Newtonian Fluid Mechanics, 1989, 32, 145-155.	2.4	8
25	Inertial effect on stability of cone-and-plate flow. Journal of Non-Newtonian Fluid Mechanics, 1998, 78, 27-45.	2.4	5
26	Numerical simulation of drop retraction after a strain jump. Physical Review E, 2009, 79, 046323.	2.1	5
27	Instabilities in steady flows of two fluids. Rocky Mountain Journal of Mathematics, 1988, 18, 455.	0.4	4
28	Stability and Instability in Viscous Fluids. Handbook of Mathematical Fluid Dynamics, 2003, , 223-287.	0.1	4
29	Direct Simulation of Drop Fragmentation under Simple Shear. Lecture Notes in Physics, 2003, , 305-323.	0.7	4
30	Stability of shear banded flow for a viscoelastic constitutive model with thixotropic yield stress behavior. Journal of Non-Newtonian Fluid Mechanics, 2017, 244, 57-74.	2.4	3
31	Trapping of water waves above a round sill. Journal of Fluid Mechanics, 1983, 132, 105-118.	3.4	2
32	Weakly nonlinear interactions and wave trapping. Journal of Fluid Mechanics, 1983, 130, 27.	3.4	0