Yehuda Taitel

List of Publications by Year
in descending order

44 papers	3,529 citations	236612 25 h-index	264894 42 g-index
44 all docs	44 docs citations	44 times ranked	1281 citing authors

#	Article	IF	Citations
1	Modelling flow pattern transitions for steady upward gas-liquid flow in vertical tubes. AICHE Journal, 1980, 26, 345-354.	1.8	1,490
2	Flow pattern transition for gas-liquid flow in horizontal and inclined pipes. Comparison of experimental data with theory. International Journal of Multiphase Flow, 1980, 6, 217-225.	1.6	211
3	Two-Phase Slug Flow. Advances in Heat Transfer, 1990, 20, 83-132.	0.4	198
4	Flow pattern transition for vertical downward two phase flow. Chemical Engineering Science, 1982, 37, 741-744.	1.9	187
5	Stability of severe slugging. International Journal of Multiphase Flow, 1986, 12, 203-217.	1.6	152
6	Flow pattern transition for downward inclined two phase flow; horizontal to vertical. Chemical Engineering Science, 1982, 37, 735-740.	1.9	145
7	A consistent approach for calculating pressure drop in inclined slug flow. Chemical Engineering Science, 1990, 45, 1199-1206.	1.9	104
8	Stratified turbulent-turbulent gas-liquid flow in horizontal and inclined pipes. AICHE Journal, 1984, 30, 377-385.	1.8	102
9	Flow pattern characterization in two phase flow by electrical conductance probe. International Journal of Multiphase Flow, 1980, 6, 387-397.	1.6	87
10	Simplified transient solution and simulation of two-phase flow in pipelines. Chemical Engineering Science, 1989, 44, 1353-1359.	1.9	77
11	Flow rate distribution in evaporating parallel pipesâ€"modeling and experimental. Chemical Engineering Science, 2006, 61, 7249-7259.	1.9	69
12	Counter current gas-liquid vertical flow, model for flow pattern and pressure drop. International Journal of Multiphase Flow, 1983, 9, 637-647.	1.6	63
13	Direct steam generation in parallel pipes. International Journal of Multiphase Flow, 2003, 29, 1669-1683.	1.6	52
14	A film model for the prediction of flooding and flow reversal for gas-liquid flow in vertical tubes. International Journal of Multiphase Flow, 1982, 8, 1-10.	1.6	48
15	Drift velocity of elongated bubbles in inclined pipes. Chemical Engineering Science, 1993, 48, 3063-3070.	1.9	48
16	Effect of gas compressibility on a slug tracking model. Chemical Engineering Science, 1998, 53, 2089-2097.	1.9	46
17	Flow rate distribution in parallel heated pipes. International Journal of Heat and Mass Transfer, 2011, 54, 4448-4457.	2.5	40
18	Evaporation in parallel pipesâ€"â€"splitting characteristics. International Journal of Multiphase Flow, 2004, 30, 763-777.	1.6	32

#	ARTICLE	IF	CITATIONS
19	Non-linear interfacial instability of separated flow. Chemical Engineering Science, 1994, 49, 2341-2349.	1.9	30
20	Transient solution for flow of evaporating fluid in parallel pipes using analysis based on flow patterns. International Journal of Multiphase Flow, 2011, 37, 469-474.	1.6	29
21	Transient-formulation modes and stability of steady-state annular flow. Chemical Engineering Science, 1989, 44, 325-332.	1.9	28
22	Condensation in the presence of a noncondensable gas in direct contact. International Journal of Heat and Mass Transfer, 1969, 12, 1157-1169.	2.5	27
23	Slug flow modeling for downward inclined pipe flow: theoretical considerations. International Journal of Multiphase Flow, 2000, 26, 833-844.	1.6	27
24	Flow distribution of gas and liquid in parallel pipes. International Journal of Multiphase Flow, 2003, 29, 1193-1202.	1.6	27
25	Film condensation of multicomponent mixtures. International Journal of Multiphase Flow, 1974, 1, 697-714.	1.6	26
26	Film thickness in horizontal annular flow. Canadian Journal of Chemical Engineering, 1983, 61, 621-626.	0.9	23
27	Prediction of Slug Length Distribution Along a Hilly Terrain Pipeline Using Slug Tracking Model. Journal of Energy Resources Technology, Transactions of the ASME, 2004, 126, 54-62.	1.4	23
28	A control procedure for the elimination of mal flow rate distribution in evaporating flow in parallel pipes. Solar Energy, 2008, 82, 329-335.	2.9	19
29	STRATIFIED THREE PHASE FLOW IN PIPES - STABILITY AND TRANSITION. Chemical Engineering Communications, 1996, 141-142, 443-460.	1.5	17
30	Avoiding unwarranted inflection points in fitting of data. AICHE Journal, 1983, 29, 153-157.	1.8	14
31	Effects of upstream and downstream boundary conditions on heat (mass) transfer with axial diffusion. International Journal of Heat and Mass Transfer, 1973, 16, 359-369.	2.5	12
32	Stability of annular flow. International Communications in Heat and Mass Transfer, 1985, 12, 611-621.	2.9	12
33	Transient data for flow of evaporating fluid in parallel mini pipes and comparison with theoretical simulations. International Journal of Multiphase Flow, 2015, 77, 58-64.	1.6	11
34	Structural stability of stratified flowâ€"the two-fluid model approach. Chemical Engineering Science, 1994, 49, 3757-3764.	1.9	10
35	Nonlinear stability and dynamic simulation of annular flow. Chemical Engineering Science, 1990, 45, 3367-3371.	1.9	9
36	The role of surface tension in microgravity slug flow. Chemical Engineering Science, 1996, 51, 695-700.	1.9	8

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37	Adiabatic flow distribution of gas and liquid in parallel pipesâ€"Effect of additional restrictions. Chemical Engineering Science, 2010, 65, 2552-2557.	1.9	8
38	Advances in Two-Phase Flow Mechanistic Modeling. , 1994, , .		6
39	On the concept of the â€œmixing cupâ€•temperature in flows with axial conduction. Canadian Journal of Chemical Engineering, 1972, 50, 421-424.	0.9	4
40	Absorption mass transfer in the presence of axial diffusion in convectiveâ€"diffusive flows. Chemical Engineering Science, 1973, 28, 1921-1929.	1.9	2
41	Transient flow of evaporating fluid in multiple parallel pipes, theory and experiments. International Journal of Heat and Mass Transfer, 2020, 161, 120287.	2.5	2
42	Flow of evaporating fluid in multiple parallel pipes-vertical downwards flow. International Journal of Heat and Mass Transfer, 2022, 189, 122729.	2.5	2
43	Flow Rate Maldistribution in Multi Heated Parallel Pipes. , 2010, , .		1
44	Liquid flowing downward in parallel pipes with evaporation. International Journal of Heat and Mass Transfer, 2019, 142, 118390.	2.5	1