

# Marianne M Francois

## List of Publications by Year in descending order

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23  
papers

1,695  
citations

623734

14  
h-index

794594

19  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1193  
citing authors

#	ARTICLE	IF	CITATIONS
1	Portable data-parallel surface reconstruction on a uniform rectilinear grid. International Journal for Numerical Methods in Fluids, 2018, 86, 185-199.	1.6	0
2	Modeling multiphase flow: Spray breakup using volume of fluids in a dynamics LES FEM method. Numerical Heat Transfer, Part B: Fundamentals, 2017, 72, 285-299.	0.9	7
3	A hybrid incremental projection method for thermal-hydraulics applications. Journal of Computational Physics, 2016, 317, 382-404.	3.8	7
4	An interface reconstruction method based on an analytical formula for 3D arbitrary convex cells. Journal of Computational Physics, 2016, 305, 63-74.	3.8	28
5	Lattice Boltzmann modeling of self-propelled Leidenfrost droplets on ratchet surfaces. Soft Matter, 2016, 12, 302-312.	2.7	57
6	Recent Numerical and Algorithmic Advances within the Volume Tracking Framework for Modeling Interfacial Flows. Procedia IUTAM, 2015, 15, 270-277.	1.2	5
7	Lattice Boltzmann modeling of boiling heat transfer: The boiling curve and the effects of wettability. International Journal of Heat and Mass Transfer, 2015, 85, 787-796.	4.8	278
8	Volume-of-Fluid Interface Reconstruction Algorithms on Next-Generation Computer Architectures. , 2014, , .		1
9	Cross-code comparisons of mixing during the implosion of dense cylindrical and spherical shells. Journal of Computational Physics, 2014, 275, 154-173.	3.8	44
10	A comparative study of multimaterial Lagrangian and Eulerian methods with pressure relaxation. Computers and Fluids, 2013, 83, 126-136.	2.5	25
11	The global embedded interface formulation for interfacial mass transfer within a volume tracking framework. Computers and Fluids, 2013, 87, 102-114.	2.5	8
12	Interface curvature via volume fractions, heights, and mean values on nonuniform rectangular grids. Journal of Computational Physics, 2010, 229, 527-540.	3.8	33
13	Efficient simulation of surface tension-dominated flows through enhanced interface geometry interrogation. Journal of Computational Physics, 2010, 229, 7520-7544.	3.8	28
14	The Balanced-Force Volume Tracking Algorithm and Global Embedded Interface Formulation for Droplet Dynamics With Mass Transfer. , 2010, , .		5
15	A second-order accurate material-order-independent interface reconstruction technique for multi-material flow simulations. Journal of Computational Physics, 2009, 228, 731-745.	3.8	41
16	Material order-independent interface reconstruction using power diagrams. International Journal for Numerical Methods in Fluids, 2008, 56, 643-659.	1.6	20
17	A numerical method for interface reconstruction of triple points within a volume tracking algorithm. Mathematical and Computer Modelling, 2008, 48, 1957-1971.	2.0	13
18	A balanced-force algorithm for continuous and sharp interfacial surface tension models within a volume tracking framework. Journal of Computational Physics, 2006, 213, 141-173.	3.8	584

#	ARTICLE	IF	CITATIONS
19	Estimating curvature from volume fractions. Computers and Structures, 2005, 83, 425-434.	4.4	309
20	Assessment of volume of fluid and immersed boundary methods for droplet computations. International Journal for Numerical Methods in Fluids, 2004, 46, 109-125.	1.6	50
21	COMPUTATIONS OF DROP DYNAMICS WITH THE IMMERSSED BOUNDARY METHOD, PART 1: NUMERICAL ALGORITHM AND BUOYANCY-INDUCED EFFECT. Numerical Heat Transfer, Part B: Fundamentals, 2003, 44, 101-118.	0.9	60
22	COMPUTATIONS OF DROP DYNAMICS WITH THE IMMERSSED BOUNDARY METHOD, PART 2: DROP IMPACT AND HEAT TRANSFER. Numerical Heat Transfer, Part B: Fundamentals, 2003, 44, 119-143.	0.9	88
23	Balanced Force Implementation of the Continuum Surface Tension Force Method Into a Pressure Correction Algorithm. , 2003, , 537.		4