Kensuke Yokoi

List of Publications by Year
in descending order

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27	1,018	567281 15	552781 26
papers	citations	h-index	g-index

28	28	28	819
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Numerical studies of the influence of the dynamic contact angle on a droplet impacting on a dry surface. Physics of Fluids, 2009, 21, .	4.0	239
2	Efficient implementation of THINC scheme: A simple and practical smoothed VOF algorithm. Journal of Computational Physics, 2007, 226, 1985-2002.	3.8	185
3	A practical numerical framework for free surface flows based on CLSVOF method, multi-moment methods and density-scaled CSF model: Numerical simulations of droplet splashing. Journal of Computational Physics, 2013, 232, 252-271.	3.8	98
4	A density-scaled continuum surface force model within a balanced force formulation. Journal of Computational Physics, 2014, 278, 221-228.	3.8	68
5	Role of the Dynamic Contact Angle on Splashing. Physical Review Letters, 2019, 122, 228001.	7.8	64
6	Numerical studies of droplet splashing on a dry surface: triggering a splash with the dynamic contact angle. Soft Matter, 2011, 7, 5120.	2.7	60
7	A Numerical Method for Free-Surface Flows and Its Application to Droplet Impact on a Thin Liquid Layer. Journal of Scientific Computing, 2008, 35, 372-396.	2.3	49
8	Three-dimensional numerical simulation of flows with complex geometries in a regular Cartesian grid and its application to blood flow in cerebral artery with multiple aneurysms. Journal of Computational Physics, 2005, 202, 1-19.	3.8	40
9	Mechanism of structure formation in circular hydraulic jumps: numerical studies of strongly deformed free-surface shallow flows. Physica D: Nonlinear Phenomena, 2002, 161, 202-219.	2.8	34
10	Coarse graining DEM simulations of a powder die-filling system. Powder Technology, 2020, 371, 83-95.	4.2	34
11	A numerical study of the transition in the circular hydraulic jump. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 257, 153-157.	2.1	20
12	Numerical method for complex moving boundary problems in a Cartesian fixed grid. Physical Review E, 2002, 65, 055701.	2.1	17
13	Relationships between a roller and a dynamic pressure distribution in circular hydraulic jumps. Physical Review E, 2000, 61, R1016-R1019.	2.1	16
14	An efficient multi-dimensional implementation of VSIAM3 and its applications to free surface flows. Physics of Fluids, 2017, 29, .	4.0	16
15	Numerical method for a moving solid object in flows. Physical Review E, 2003, 67, 045701.	2.1	15
16	A fifth-order high-resolution shock-capturing scheme based on modified weighted essentially non-oscillatory method and boundary variation diminishing framework for compressible flows and compressible two-phase flows. Physics of Fluids, 2021, 33, .	4.0	11
17	Numerical method for interaction between multiparticle and complex structures. Physical Review E, 2005, 72, 046713.	2.1	10
18	A variational approach to multi-phase motion of gas, liquid and solid based on the level set method. Computer Physics Communications, 2009, 180, 1145-1149.	7.5	10

#	Article	IF	Citations
19	Constrained Interpolation Profile Conservative Semi-Lagrangian Scheme Based on Third-Order Polynomial Functions and Essentially Non-Oscillatory (CIP-CSL3ENO) Scheme. Communications in Computational Physics, 2017, 22, 765-788.	1.7	6
20	A fully conservative highâ€order upwind multiâ€moment method using moments in both upwind and downwind cells. International Journal for Numerical Methods in Fluids, 2016, 82, 493-511.	1.6	5
21	Density-Scaled Balanced Continuum Surface Force Model with a Level Set Based Curvature Interpolation Technique. International Journal of Computational Methods, 2016, 13, 1641004.	1.3	5
22	Efficient Implementation of Volume/Surface Integrated Average-Based Multi-Moment Method. International Journal of Computational Methods, 2017, 14, 1750010.	1.3	5
23	A Non-oscillatory Multi-Moment Finite Volume Scheme with Boundary Gradient Switching. Journal of Scientific Computing, 2017, 72, 1146-1168.	2.3	4
24	Boundary variation diminished conservative semi-Lagrangian method for both compressible and incompressible flows. Physics of Fluids, 2021, 33, .	4.0	4
25	Numerical Method for Interaction Among Multi-particle, Fluid and Arbitrary Shape Structure. Journal of Scientific Computing, 2011, 46, 166-181.	2.3	2
26	Publisherâ€™s Note: Numerical method for complex moving boundary problems in a Cartesian fixed grid [Phys. Rev. E65, 055701 (2002)]. Physical Review E, 2002, 65, .	2.1	1
27	Numerical Studies of Hydraulic Jump Phenomena with Largely Deformed Interfaces. Progress of Theoretical Physics Supplement, 2000, 138, 708-709.	0.1	0