

Xiaoyang Xu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

17
papers

340
citations

11
h-index

17
g-index

17
ext. papers

387
ext. citations

3.4
avg, IF

4.18
L-index

#	Paper	IF	Citations
17	SPH simulations of three-dimensional non-Newtonian free surface flows. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013 , 256, 101-116	5.7	53
16	An improved weakly compressible SPH method for simulating free surface flows of viscous and viscoelastic fluids. <i>Computer Physics Communications</i> , 2016 , 201, 43-62	4.2	47
15	Numerical analysis of the impact of two droplets with a liquid film using an incompressible SPH method. <i>Journal of Engineering Mathematics</i> , 2014 , 85, 35-53	1.2	46
14	Numerical simulation of 3D-unsteady viscoelastic free surface flows by improved smoothed particle hydrodynamics method. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2012 , 177-178, 109-120	2.7	33
13	An improved SPH approach for simulating 3D dam-break flows with breaking waves. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016 , 311, 723-742	5.7	29
12	A SPH-based particle method for simulating 3D transient free surface flows of branched polymer melts. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013 , 202, 54-71	2.7	26
11	SPH simulations of 2D transient viscoelastic flows using Brownian configuration fields. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2014 , 208-209, 59-71	2.7	22
10	Modeling and simulation of injection molding process of polymer melt by a robust SPH method. <i>Applied Mathematical Modelling</i> , 2017 , 48, 384-409	4.5	21
9	A multiscale SPH method for simulating transient viscoelastic flows using bead-spring chain model. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016 , 229, 27-42	2.7	16
8	Extension of SPH to simulate non-isothermal free surface flows during the injection molding process. <i>Applied Mathematical Modelling</i> , 2019 , 73, 715-731	4.5	14
7	A technique to remove the tensile instability in weakly compressible SPH. <i>Computational Mechanics</i> , 2018 , 62, 963-990	4	13
6	Numerical simulation of the sequential coinjection molding process based on level set method. <i>Polymer Engineering and Science</i> , 2015 , 55, 1707-1719	2.3	8
5	SPH simulations of 3D dam-break flow against various forms of the obstacle: Toward an optimal design. <i>Ocean Engineering</i> , 2021 , 229, 108978	3.9	7
4	A modified SPH method to model the coalescence of colliding non-Newtonian liquid droplets. <i>International Journal for Numerical Methods in Fluids</i> , 2020 , 92, 372-390	1.9	3
3	Modeling of van der Waals force with smoothed particle hydrodynamics: Application to the rupture of thin liquid films. <i>Applied Mathematical Modelling</i> , 2020 , 83, 719-735	4.5	2
2	Development of SPH for simulation of non-isothermal viscoelastic free surface flows with application to injection molding. <i>Applied Mathematical Modelling</i> , 2022 , 104, 782-805	4.5	0
1	A new holographic metal/superconductor phase transition model. <i>Modern Physics Letters A</i> , 2015 , 30, 1550043	1.3	

