Xiaoyang Xu

List of Publications by Year in Descending Order

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