Isabel Herreros

List of Publications by Year
in descending order

20	578	12	19
papers	citations	h-index	g-index

26	26	26	517
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Updated Lagrangian Taylor-SPH method for large deformation in dynamic problems. Applied Mathematical Modelling, 2020, 80, 238-256.	2.2	11
2	Rigid body motion in viscous flows using the finite element method. Physics of Fluids, 2020, 32, 123311.	1.6	8
3	Predicting dynamic fracture in viscoplastic materials using Taylor-SPH. International Journal of Impact Engineering, 2016, 87, 95-107.	2.4	6
4	Rungeâ€"Kutta vs Taylor-SPH: Two time integration schemes for SPH with application to Soil Dynamics. Applied Mathematical Modelling, 2013, 37, 3541-3563.	2.2	21
5	Discretization Techniques for Transient, Dynamic and Cyclic Problems in Geotechnical Engineering: Second Order Equation. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2012, , 329-361.	0.3	0
6	A two-steps time discretization scheme using the SPH method for shock wave propagation. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 1833-1845.	3.4	23
7	Taylor-SPH vs Taylor-Galerkin for shock waves in viscoplastic continua. European Journal of Computational Mechanics, 2011, 20, 281-308.	0.6	7
8	Modelling of fast catastrophic landslides and impulse waves induced by them in fjords, lakes and reservoirs. Engineering Geology, 2009, 109, 124-134.	2.9	70
9	Mathematical, Constitutive and Numerical Modelling of Catastrophic Landslides and Related Phenomena. Rock Mechanics and Rock Engineering, 2008, 41, 85-132.	2.6	21
10	An eulerian mixed formulation for viscoplastic materials. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 1924-1932.	3.4	1
11	Fractional-Step Finite Element Method for Calculation of 3-D Free Surface Problem Using Level Set Method. Journal of Hydrodynamics, 2006, 18, 742-747.	1.3	7
12	Application of level-set approach to moving interfaces and free surface problems in flow through porous media. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 1-25.	3.4	33
13	A Rungeâ€"Kutta, Taylorâ€"Galerkin scheme for hyperbolic systems with source terms. Application to shock wave propagation in viscoplastic geomaterials. International Journal for Numerical and Analytical Methods in Geomechanics, 2006, 30, 1337-1355.	1.7	18
14	Wave propagation and localization problems in saturated viscoplastic geomaterials. International Journal for Numerical Methods in Engineering, 2006, 68, 425-447.	1.5	14
15	Comparison of two mathematical models for solving the dam break problem using the FEM method. Computer Methods in Applied Mechanics and Engineering, 2005, 194, 3984-4005.	3.4	38
16	Numerical modelling of the propagation of fast landslides using the finite element method. International Journal for Numerical Methods in Engineering, 2004, 59, 755-794.	1.5	79
17	Numerical modelling of impulse wave generated by fast landslides. International Journal for Numerical Methods in Engineering, 2004, 59, 1633-1656.	1.5	81
18	Modelling of diffuse failure mechanisms of catastrophic landslides. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 2911-2939.	3.4	59

#	Article	IF	Citations
19	Simple Approximation to Bottom Friction for Bingham Fluid Depth Integrated Models. Journal of Hydraulic Engineering, 2004, 130, 149-155.	0.7	60
20	Modelling of Landslides: (II) Propagation. , 2004, , 319-367.		10