Chong

List of Publications by Year
in descending order

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51 papers	1,354 citations	304743 22 h-index	361022 35 g-index
55 all docs	55 docs citations	55 times ranked	709 citing authors

#	Article	IF	Citations
1	A SPH approach for large deformation analysis with hypoplastic constitutive model. Acta Geotechnica, 2015, 10, 703-717.	5.7	105
2	A stabilized TLâ€“WC SPH approach with GPU acceleration for three-dimensional fluidâ€“structure interaction. Journal of Fluids and Structures, 2019, 86, 329-353.	3.4	81
3	LOQUAT: an open-source GPU-accelerated SPH solver for geotechnical modeling. Acta Geotechnica, 2019, 14, 1269-1287.	5.7	76
4	Unified modelling of granular media with Smoothed Particle Hydrodynamics. Acta Geotechnica, 2016, 11, 1231-1247.	5.7	73
5	Multiphase SPH modeling of free surface flow in porous media with variable porosity. Computers and Geotechnics, 2017, 81, 239-248.	4.7	71
6	Dilatancy and compaction effects on the submerged granular column collapse. Physics of Fluids, 2017, 29, .	4.0	70
7	GPU-accelerated smoothed particle finite element method for large deformation analysis in geomechanics. Computers and Geotechnics, 2021, 129, 103856.	4.7	64
8	A Total Lagrangian SPH method for modelling damage and failure in solids. International Journal of Mechanical Sciences, 2019, 157-158, 498-511.	6.7	53
9	A fully resolved SPH-DEM method for heterogeneous suspensions with arbitrary particle shape. Powder Technology, 2021, 387, 509-526.	4.2	41
10	Numerical integration and FE implementation of a hypoplastic constitutive model. Acta Geotechnica, 2018, 13, 1265-1281.	5.7	40
11	Three-dimensional modeling of granular flow impact on rigid and deformable structures. Computers and Geotechnics, 2019, 112, 257-271.	4.7	39
12	Smoothed Particle Hydrodynamics Simulation of Water-Soil Mixture Flows. Journal of Hydraulic Engineering, 2016, 142, .	1.5	38
13	Threeâ€dimensional numerical analysis of concreteâ€faced rockfill dam using dualâ€mortar finite element method with mixed tangential contact constraints. International Journal for Numerical and Analytical Methods in Geomechanics, 2016, 40, 2100-2122.	3.3	35
14	A SPH framework for dynamic interaction between soil and rigid body system with hybrid contact method. International Journal for Numerical and Analytical Methods in Geomechanics, 2020, 44, 1446-1471.	3.3	35
15	Two-fluid smoothed particle hydrodynamics simulation of submerged granular column collapse. Mechanics Research Communications, 2017, 79, 15-23.	1.8	33
16	A thermodynamically consistent phase field model for mixed-mode fracture in rock-like materials. Computer Methods in Applied Mechanics and Engineering, 2022, 392, 114642.	6.6	33
17	Role of baffle shape on debris flow impact in step-pool channel: an SPH study. Landslides, 2020, 17, 2099-2111.	5.4	32
18	Modelling the timeâ€dependent behaviour of granular material with hypoplasticity. International Journal for Numerical and Analytical Methods in Geomechanics, 2018, 42, 1331-1345.	3.3	31

#	ARTICLE	IF	CITATIONS
19	A hypoplastic constitutive model for debris materials. Acta Geotechnica, 2016, 11, 1217-1229.	5.7	29
20	Experimental Study on Loading-Creep Coupling Effect in Rockfill Material. International Journal of Geomechanics, 2017, 17, .	2.7	28
21	A mortar segment-to-segment contact method for stabilized total-Lagrangian smoothed particle hydrodynamics. Applied Mathematical Modelling, 2022, 107, 20-38.	4.2	25
22	A surface mesh represented discrete element method (SMR-DEM) for particles of arbitrary shape. Powder Technology, 2021, 377, 760-779.	4.2	23
23	Threeâ€dimensional simulations of tensile cracks in geomaterials by coupling meshless and finite element method. International Journal for Numerical and Analytical Methods in Geomechanics, 2015, 39, 135-154.	3.3	21
24	GPU-accelerated smoothed particle hydrodynamics modeling of granular flow. Powder Technology, 2020, 359, 94-106.	4.2	21
25	On three-dimensional SPH modelling of large-scale landslides. Canadian Geotechnical Journal, 2022, 59, 24-39.	2.8	19
26	Numerical evaluation of soft interâ€slab joint in concreteâ€faced rockfill dam with dual mortar finite element method. International Journal for Numerical and Analytical Methods in Geomechanics, 2018, 42, 781-805.	3.3	18
27	An improved predictive-corrective incompressible smoothed particle hydrodynamics method for fluid flow modelling. Journal of Hydrodynamics, 2019, 31, 654-668.	3.2	17
28	Combined constitutive model for creep and steady flow rate of frozen soil in an unconfined condition. Canadian Geotechnical Journal, 2017, 54, 907-914.	2.8	16
29	A multi-layer SPH method for generic waterâ€“soil dynamic coupling problems. Part I: Revisit, theory, and validation. Computer Methods in Applied Mechanics and Engineering, 2022, 396, 115106.	6.6	16
30	Simulations for three-dimensional landmine detonation using the SPH method. International Journal of Impact Engineering, 2019, 126, 40-49.	5.0	15
31	Numerical simulation of metal machining process with Eulerian and Total Lagrangian SPH. Engineering Analysis With Boundary Elements, 2020, 117, 269-283.	3.7	13
32	Unified constitutive model for granularâ€“fluid mixture in quasi-static and dense flow regimes. Acta Geotechnica, 2021, 16, 775-787.	5.7	13
33	A three-field dual mortar method for elastic problems with nonconforming mesh. Computer Methods in Applied Mechanics and Engineering, 2020, 362, 112870.	6.6	13
34	A dual mortar contact method for porous media and its application to clayâ€core rockfill dams. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 1744-1769.	3.3	12
35	Granular flow simulation in a centrifugal acceleration field. Geotechnique, 2020, 70, 894-905.	4.0	12
36	Investigation of Submerged Soil Excavation by High-Velocity Water Jet Using Two-Fluid Smoothed Particle Hydrodynamics Method. Journal of Hydraulic Engineering, 2019, 145, .	1.5	11

#	Article	IF	Citations
37	Large deformation analysis of geomaterials using stabilized total Lagrangian smoothed particle hydrodynamics. Engineering Analysis With Boundary Elements, 2022, 136, 252-265.	3.7	11
38	A Lagrangian differencing dynamics method for granular flow modeling. Computers and Geotechnics, 2021, 137, 104297.	4.7	10
39	Simulation of tensile cracking in earth structures with an adaptive RPIM-FEM coupled Method. KSCE Journal of Civil Engineering, 2014, 18, 2007-2018.	1.9	9
40	Simulations for the explosion in a water-filled tube including cavitation using the SPH method. Computational Particle Mechanics, 2019, 6, 515-527.	3.0	9
41	GPU-accelerated smoothed particle hydrodynamics modeling of jet formation and penetration capability of shaped charges. Journal of Fluids and Structures, 2020, 99, 103171.	3.4	9
42	Large Deformation Modeling of Soil-Machine Interaction in Clay. Springer Series in Geomechanics and Geoengineering, 2017, , 249-257.	0.1	5
43	Numerical modelling of interaction between aluminium structure and explosion in soil. Applied Mathematical Modelling, 2021, 99, 760-784.	4.2	5
44	Implementation of three-dimensional physical reflective boundary conditions in mesh-free particle methods for continuum fluid dynamics: Validation tests and case studies. Physics of Fluids, 2019, 31, 103606.	4.0	4
45	A PCISPH implementation using distributed multi-GPU acceleration for simulating industrial engineering applications. International Journal of High Performance Computing Applications, 2020, 34, 450-464.	3.7	3
46	A Eulerianâ€“Lagrangian Coupled Method for the Simulation of Submerged Granular Column Collapse. Journal of Marine Science and Engineering, 2021, 9, 617.	2.6	3
47	Lagrangian Differencing Dynamics for Time-Independent Non-Newtonian Materials. Materials, 2021, 14, 6210.	2.9	3
48	Numerical Simulation of Detonation and Brisance Performance of Aluminized HMX Using Densityâ€Adaptive SPH. Propellants, Explosives, Pyrotechnics, 2021, 46, 1800-1814.	1.6	3
49	Lagrangian meshfree particle method (SPH) based simulation for granular flow in a rotating drum with regularized Î¼(I) elastoplastic model. Powder Technology, 2022, 408, 117699.	4.2	3
50	Factors affecting accuracy of radial point interpolation meshfree method for 3-D solid mechanics. Journal of Central South University, 2013, 20, 3229-3246.	3.0	2
51	A GPU-Accelerated Three-Dimensional SPH Solver for Geotechnical Applications. Springer Series in Geomechanics and Geoengineering, 2018, , 398-401.	0.1	2