

Ha H Bui

List of Publications by Year in descending order

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64
papers

2,876
citations

186265
28
h-index

175258
52
g-index

64
all docs

64
docs citations

64
times ranked

1638
citing authors

#	ARTICLE	IF	CITATIONS
1	Lagrangian meshfree particles method (SPH) for large deformation and failure flows of geomaterial using elastic-plastic soil constitutive model. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2008, 32, 1537-1570.	3.3	539
2	Numerical simulation of soil-water interaction using smoothed particle hydrodynamics (SPH) method. <i>Journal of Terramechanics</i> , 2007, 44, 339-346.	3.1	174
3	An improved SPH method for saturated soils and its application to investigate the mechanisms of embankment failure: Case of hydrostatic pore-water pressure. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2013, 37, 31-50.	3.3	147
4	Experimental and numerical investigation of influence of air-voids on the compressive behaviour of foamed concrete. <i>Materials and Design</i> , 2017, 130, 103-119.	7.0	140
5	A new SPH-based approach to simulation of granular flows using viscous damping and stress regularisation. <i>Landslides</i> , 2017, 14, 69-81.	5.4	112
6	A cohesive damage-plasticity model for DEM and its application for numerical investigation of soft rock fracture properties. <i>International Journal of Plasticity</i> , 2017, 98, 175-196.	8.8	101
7	A coupled fluid-solid SPH approach to modelling flow through deformable porous media. <i>International Journal of Solids and Structures</i> , 2017, 125, 244-264.	2.7	100
8	A micromechanical investigation for the effects of pore size and its distribution on geopolymer foam concrete under uniaxial compression. <i>Engineering Fracture Mechanics</i> , 2019, 209, 228-244.	4.3	98
9	Smoothed particle hydrodynamics (SPH) and its applications in geomechanics: From solid fracture to granular behaviour and multiphase flows in porous media. <i>Computers and Geotechnics</i> , 2021, 138, 104315.	4.7	89
10	Modelling the dynamic failure of brittle rocks using a hybrid continuum-discrete element method with a mixed-mode cohesive fracture model. <i>International Journal of Impact Engineering</i> , 2016, 87, 146-155.	5.0	87
11	Serviceability design for geosynthetic reinforced column supported embankments. <i>Geotextiles and Geomembranes</i> , 2017, 45, 261-279.	4.6	87
12	Numerical modelling of laboratory soil desiccation cracking using UDEC with a mix-mode cohesive fracture model. <i>Engineering Geology</i> , 2016, 202, 14-23.	6.3	79
13	Numerical and experimental studies of gravity effect on the mechanism of lunar excavations. <i>Journal of Terramechanics</i> , 2009, 46, 115-124.	3.1	64
14	A novel computational approach for large deformation and post-failure analyses of segmental retaining wall systems. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2014, 38, 1321-1340.	3.3	56
15	Load-transfer platform behaviour in embankments supported on semi-rigid columns: implications of the ground reaction curve. <i>Canadian Geotechnical Journal</i> , 2017, 54, 1158-1175.	2.8	53
16	A new SPH-based continuum framework with an embedded fracture process zone for modelling rock fracture. <i>International Journal of Solids and Structures</i> , 2019, 159, 40-57.	2.7	50
17	A discrete element modelling approach for fatigue damage growth in cemented materials. <i>International Journal of Plasticity</i> , 2019, 112, 68-88.	8.8	49
18	Modelling 3D desiccation cracking in clayey soils using a size-dependent SPH computational approach. <i>Computers and Geotechnics</i> , 2019, 116, 103209.	4.7	44

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19	A thermodynamics-based cohesive model for discrete element modelling of fracture in cemented materials. <i>International Journal of Solids and Structures</i> , 2017, 117, 159-176.	2.7	42
20	Constitutive modelling of compaction localisation in porous sandstones. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2016, 83, 57-72.	5.8	40
21	Localised failure mechanism as the basis for constitutive modelling of geomaterials. <i>International Journal of Engineering Science</i> , 2018, 133, 284-310.	5.0	40
22	Numerical investigation of the mechanism of granular flow impact on rigid control structures. <i>Acta Geotechnica</i> , 2021, 16, 2505-2527.	5.7	38
23	A size-dependent constitutive modelling framework for localised failure analysis. <i>Computational Mechanics</i> , 2016, 58, 257-280.	4.0	37
24	Modelling jointed rock mass as a continuum with an embedded cohesive-frictional model. <i>Engineering Geology</i> , 2017, 228, 107-120.	6.3	37
25	A thermodynamics- and mechanism-based framework for constitutive models with evolving thickness of localisation band. <i>International Journal of Solids and Structures</i> , 2020, 187, 100-120.	2.7	36
26	A scalable parallel computing SPH framework for predictions of geophysical granular flows. <i>Computers and Geotechnics</i> , 2020, 121, 103474.	4.7	34
27	A generic approach to modelling flexible confined boundary conditions in <sc>SPH</sc> and its application. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2019, 43, 1005-1031.	3.3	31
28	A DEM approach to study desiccation processes in slurry soils. <i>Computers and Geotechnics</i> , 2020, 120, 103448.	4.7	31
29	Effects of material properties on the mobility of granular flow. <i>Granular Matter</i> , 2020, 22, 1.	2.2	30
30	Incorporation of micro-cracking and fibre bridging mechanisms in constitutive modelling of fibre reinforced concrete. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 133, 103732.	4.8	28
31	Simulation of mixed-mode fracture using SPH particles with an embedded fracture process zone. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2020, 44, 1417-1445.	3.3	28
32	Geosynthetic reinforced column supported embankments and the role of ground improvement installation effects. <i>Canadian Geotechnical Journal</i> , 2018, 55, 792-809.	2.8	25
33	Capturing pressure- and rate-dependent behaviour of rocks using a new damage-plasticity model. <i>International Journal of Impact Engineering</i> , 2017, 110, 208-218.	5.0	24
34	A general SPH framework for transient seepage flows through unsaturated porous media considering anisotropic diffusion. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 387, 114169.	6.6	24
35	Constitutive modelling of progressive localised failure in porous sandstones under shearing at high confining pressures. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2017, 93, 179-195.	5.8	23
36	Advanced Characteristics of Cement-Treated Materials with respect to Strength Performance and Damage Evolution. <i>Journal of Materials in Civil Engineering</i> , 2017, 29, .	2.9	22

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37	Kinematics of soil arching in piled embankments. <i>Geotechnique</i> , 2019, 69, 941-958.	4.0	22
38	Failure Mechanism of True 2D Granular Flows. <i>Journal of Chemical Engineering of Japan</i> , 2015, 48, 395-402.	0.6	19
39	Soil curling process and its influencing factors. <i>Canadian Geotechnical Journal</i> , 2020, 57, 408-422.	2.8	19
40	An approach to calculating large strain accumulation for discrete element simulations of granular media. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2020, 44, 1525-1547.	3.3	17
41	Experimental and numerical investigations of non-standardised semi-circular bending test for asphalt concrete mixtures. <i>International Journal of Pavement Engineering</i> , 2021, 22, 960-972.	4.4	17
42	Macroscopic pedestrian flow simulation using Smoothed Particle Hydrodynamics (SPH). <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 111, 334-351.	7.6	16
43	Discrete element method investigation of particle size distribution effects on the flexural properties of cement-treated base. <i>Computers and Geotechnics</i> , 2019, 113, 103096.	4.7	11
44	Constitutive modelling of partially saturated soils: Hydro-mechanical coupling in a generic thermodynamics-based formulation. <i>International Journal of Plasticity</i> , 2021, 136, 102821.	8.8	11
45	DEM modelling of unsaturated seepage flows through porous media. <i>Computational Particle Mechanics</i> , 2022, 9, 135-152.	3.0	11
46	A modified cohesive damage-plasticity model for distinct lattice spring model on rock fracturing. <i>Computers and Geotechnics</i> , 2021, 135, 104152.	4.7	11
47	SPH Simulation of Strain Localisation in Geomaterials Using a Visco-Plastic Constitutive Model. , 2017, , .		8
48	Behavior of Geosynthetic-Reinforced Piled Embankments with Defective Piles. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019, 145, 04019090.	3.0	8
49	Hybrid Discrete-Continuum Approach to Model Hydromechanical Behavior of Soil during Desiccation. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021, 147, .	3.0	8
50	Experimental and Numerical Investigation of the Load-Bearing Mechanisms of Piles Socketed in Soft Rocks. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 5555-5576.	5.4	8
51	Numerical Simulation of Granular Materials Based on Smoothed Particle Hydrodynamics (SPH). , 2009, , .		7
52	A Mesh-Free Continuum Based Computational Approach to Modelling Rock Fracture. , 2017, , .		7
53	Analysis of transition from diffuse to localized failure in sandstone and concrete using Digital Image correlation. <i>Engineering Fracture Mechanics</i> , 2022, 267, 108465.	4.3	6
54	A Continuum Based Approach to Modelling Tensile Cracks in Soils. , 2017, , .		5

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55	Modelling the influence of fines content on the instability of silty sands considering grain scale interactions. International Journal of Plasticity, 2021, 143, 103020.	8.8	5
56	Meshfree SPH modelling of shrinkage induced cracking in clayey soils. Lecture Notes in Civil Engineering, 2020, , 889-894.	0.4	5
57	Numerical Study of Particle Size Distribution Effect on the Failure of Asphalt Mixtures Using Discrete Element Method. , 2017, , .		3
58	Discrete Element Modelling of the Mechanical Behaviour of a Highly Porous Foamed Concrete. , 2017, , .		3
59	Localised failure of geomaterials: how to extract localisation band behaviour from macro test data. Geotechnique, 2022, 72, 596-609.	4.0	3
60	A combined numerical-experimental approach to analyzing fracture initiation and development in brittle rocks. Computers and Geotechnics, 2022, 145, 104663.	4.7	2
61	Modeling submerged granular flow across multiple regimes using the Eulerian-Eulerian approach with shear-induced volumetric behavior. Physics of Fluids, 2022, 34, .	4.0	2
62	The Roles and Effects of Friction in Cohesive Zone Modelling: A Thermodynamics-Based Formulation. Lecture Notes in Civil Engineering, 2018, , 288-296.	0.4	1
63	Effect of Specimen Size on Localization using Digital Image Correlation. Lecture Notes in Mechanical Engineering, 2021, , 397-405.	0.4	1
64	Predicting onset and orientation of localisation bands using a cohesive-frictional model. Lecture Notes in Civil Engineering, 2020, , 311-316.	0.4	1