

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	Localised failure of geomaterials: how to extract localisation band behaviour from macro test data. <i>Geotechnique</i> , 2022, 72, 596-609.	4.0	3
2	DEM modelling of unsaturated seepage flows through porous media. <i>Computational Particle Mechanics</i> , 2022, 9, 135-152.	3.0	11
3	A combined numerical-experimental approach to analyzing fracture initiation and development in brittle rocks. <i>Computers and Geotechnics</i> , 2022, 145, 104663.	4.7	2
4	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
5	Modeling submerged granular flow across multiple regimes using the Eulerian-Eulerian approach with shear-induced volumetric behavior. <i>Physics of Fluids</i> , 2022, 34, .	4.0	2
6	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
7	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
8	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
9	Effect of Specimen Size on Localization using Digital Image Correlation. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 397-405.	0.4	1
10	Numerical investigation of the mechanism of granular flow impact on rigid control structures. <i>Acta Geotechnica</i> , 2021, 16, 2505-2527.	5.7	38
11	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
12	Modelling the influence of fines content on the instability of silty sands considering grain scale interactions. <i>International Journal of Plasticity</i> , 2021, 143, 103020.	8.8	5
13	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
14	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
15	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
16	Soil curling process and its influencing factors. <i>Canadian Geotechnical Journal</i> , 2020, 57, 408-422.	2.8	19
17	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
18	Macroscopic pedestrian flow simulation using Smoothed Particle Hydrodynamics (SPH). <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 111, 334-351.	7.6	16

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19	A scalable parallel computing SPH framework for predictions of geophysical granular flows. Computers and Geotechnics, 2020, 121, 103474.	4.7	34
20	A DEM approach to study desiccation processes in slurry soils. Computers and Geotechnics, 2020, 120, 103448.	4.7	31
21	Simulation of mixed-mode fracture using SPH particles with an embedded fracture process zone. International Journal for Numerical and Analytical Methods in Geomechanics, 2020, 44, 1417-1445.	3.3	28
22	An approach to calculating large strain accumulation for discrete element simulations of granular media. International Journal for Numerical and Analytical Methods in Geomechanics, 2020, 44, 1525-1547.	3.3	17
23	Meshfree SPH modelling of shrinkage induced cracking in clayey soils. Lecture Notes in Civil Engineering, 2020, , 889-894.	0.4	5
24	Predicting onset and orientation of localisation bands using a cohesive-frictional model. Lecture Notes in Civil Engineering, 2020, , 311-316.	0.4	1
25	Effects of material properties on the mobility of granular flow. Granular Matter, 2020, 22, 1.	2.2	30
26	A discrete element modelling approach for fatigue damage growth in cemented materials. International Journal of Plasticity, 2019, 112, 68-88.	8.8	49
27	Behavior of Geosynthetic-Reinforced Piled Embankments with Defective Piles. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, 04019090.	3.0	8
28	Incorporation of micro-cracking and fibre bridging mechanisms in constitutive modelling of fibre reinforced concrete. Journal of the Mechanics and Physics of Solids, 2019, 133, 103732.	4.8	28
29	Modelling 3D desiccation cracking in clayey soils using a size-dependent SPH computational approach. Computers and Geotechnics, 2019, 116, 103209.	4.7	44
30	A micromechanical investigation for the effects of pore size and its distribution on geopolymer foam concrete under uniaxial compression. Engineering Fracture Mechanics, 2019, 209, 228-244.	4.3	98
31	Discrete element method investigation of particle size distribution effects on the flexural properties of cement-treated base. Computers and Geotechnics, 2019, 113, 103096.	4.7	11
32	A generic approach to modelling flexible confined boundary conditions in <sc>SPH</sc> and its application. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 1005-1031.	3.3	31
33	A new SPH-based continuum framework with an embedded fracture process zone for modelling rock fracture. International Journal of Solids and Structures, 2019, 159, 40-57.	2.7	50
34	Kinematics of soil arching in piled embankments. Geotechnique, 2019, 69, 941-958.	4.0	22
35	Geosynthetic reinforced column supported embankments and the role of ground improvement installation effects. Canadian Geotechnical Journal, 2018, 55, 792-809.	2.8	25
36	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

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37	Localised failure mechanism as the basis for constitutive modelling of geomaterials. International Journal of Engineering Science, 2018, 133, 284-310.	5.0	40
38	A new SPH-based approach to simulation of granular flows using viscous damping and stress regularisation. Landslides, 2017, 14, 69-81.	5.4	112
39	Capturing pressure- and rate-dependent behaviour of rocks using a new damage-plasticity model. International Journal of Impact Engineering, 2017, 110, 208-218.	5.0	24
40	Constitutive modelling of progressive localised failure in porous sandstones under shearing at high confining pressures. International Journal of Rock Mechanics and Minings Sciences, 2017, 93, 179-195.	5.8	23
41	Experimental and numerical investigation of influence of air-voids on the compressive behaviour of foamed concrete. Materials and Design, 2017, 130, 103-119.	7.0	140
42	A coupled fluid-solid SPH approach to modelling flow through deformable porous media. International Journal of Solids and Structures, 2017, 125, 244-264.	2.7	100
43	Serviceability design for geosynthetic reinforced column supported embankments. Geotextiles and Geomembranes, 2017, 45, 261-279.	4.6	87
44	A thermodynamics-based cohesive model for discrete element modelling of fracture in cemented materials. International Journal of Solids and Structures, 2017, 117, 159-176.	2.7	42
45	Load-transfer platform behaviour in embankments supported on semi-rigid columns: implications of the ground reaction curve. Canadian Geotechnical Journal, 2017, 54, 1158-1175.	2.8	53
46	Modelling jointed rock mass as a continuum with an embedded cohesive-frictional model. Engineering Geology, 2017, 228, 107-120.	6.3	37
47	A cohesive damage-plasticity model for DEM and its application for numerical investigation of soft rock fracture properties. International Journal of Plasticity, 2017, 98, 175-196.	8.8	101
48	SPH Simulation of Strain Localisation in Geomaterials Using a Visco-Plastic Constitutive Model. , 2017, , .		8
49	Numerical Study of Particle Size Distribution Effect on the Failure of Asphalt Mixtures Using Discrete Element Method. , 2017, , .		3
50	Discrete Element Modelling of the Mechanical Behaviour of a Highly Porous Foamed Concrete. , 2017, , .		3
51	A Continuum Based Approach to Modelling Tensile Cracks in Soils. , 2017, , .		5
52	A Mesh-Free Continuum Based Computational Approach to Modelling Rock Fracture. , 2017, , .		7
53	Advanced Characteristics of Cement-Treated Materials with respect to Strength Performance and Damage Evolution. Journal of Materials in Civil Engineering, 2017, 29, .	2.9	22
54	A size-dependent constitutive modelling framework for localised failure analysis. Computational Mechanics, 2016, 58, 257-280.	4.0	37

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55	Modelling the dynamic failure of brittle rocks using a hybrid continuum-discrete element method with a mixed-mode cohesive fracture model. International Journal of Impact Engineering, 2016, 87, 146-155.	5.0	87
56	Constitutive modelling of compaction localisation in porous sandstones. International Journal of Rock Mechanics and Minings Sciences, 2016, 83, 57-72.	5.8	40
57	Numerical modelling of laboratory soil desiccation cracking using UDEC with a mix-mode cohesive fracture model. Engineering Geology, 2016, 202, 14-23.	6.3	79
58	Failure Mechanism of True 2D Granular Flows. Journal of Chemical Engineering of Japan, 2015, 48, 395-402.	0.6	19
59	A novel computational approach for large deformation and post-failure analyses of segmental retaining wall systems. International Journal for Numerical and Analytical Methods in Geomechanics, 2014, 38, 1321-1340.	3.3	56
60	An improved SPH method for saturated soils and its application to investigate the mechanisms of embankment failure: Case of hydrostatic pore-water pressure. International Journal for Numerical and Analytical Methods in Geomechanics, 2013, 37, 31-50.	3.3	147
61	Numerical Simulation of Granular Materials Based on Smoothed Particle Hydrodynamics (SPH). , 2009, , .		7
62	Numerical and experimental studies of gravity effect on the mechanism of lunar excavations. Journal of Terramechanics, 2009, 46, 115-124.	3.1	64
63	Lagrangian meshfree particles method (SPH) for large deformation and failure flows of geomaterial using elastic-plastic soil constitutive model. International Journal for Numerical and Analytical Methods in Geomechanics, 2008, 32, 1537-1570.	3.3	539
64	Numerical simulation of soil-water interaction using smoothed particle hydrodynamics (SPH) method. Journal of Terramechanics, 2007, 44, 339-346.	3.1	174