Giang D Nguyen

List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	Micromechanically inspired investigation of cemented granular materials: part Il— from experiments to modelling and back. Acta Geotechnica, 2023, 18, 57-75.	5.7	3
2	Localised failure of geomaterials: how to extract localisation band behaviour from macro test data. Geotechnique, 2022, 72, 596-609.	4.0	3
3	DEM modelling of unsaturated seepage flows through porous media. Computational Particle Mechanics, 2022, 9, 135-152.	3.0	11
4	A combined numerical-experimental approach to analyzing fracture initiation and development in brittle rocks. Computers and Geotechnics, 2022, 145, 104663.	4.7	2
5	Analysis of transition from diffuse to localized failure in sandstone and concrete using Digital Image correlation. Engineering Fracture Mechanics, 2022, 267, 108465.	4.3	6
6	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
7	Constitutive modelling of partially saturated soils: Hydro-mechanical coupling in a generic thermodynamics-based formulation. International Journal of Plasticity, 2021, 136, 102821.	8.8	11
8	Evaluation of the propensity of strain burst in brittle granite based on post-peak energy analysis. Underground Space (China), 2021, 6, 1-11.	7.5	38
9	Effect of Specimen Size on Localization using Digital Image Correlation. Lecture Notes in Mechanical Engineering, 2021, , 397-405.	0.4	1
10	Effect of particle rolling resistance on drained and undrained behaviour of silty sand. Acta Geotechnica, 2021, 16, 2657-2682.	5.7	19
11	Numerical investigation of the mechanism of granular flow impact on rigid control structures. Acta Geotechnica, 2021, 16, 2505-2527.	5.7	38
12	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
13	Shear yielding and failure of cold-reduced G450 sheet steel. Journal of Constructional Steel Research, 2021, 185, 106844.	3.9	2
14	Smoothed particle hydrodynamics (SPH) and its applications in geomechanics: From solid fracture to granular behaviour and multiphase flows in porous media. Computers and Geotechnics, 2021, 138, 104315.	4.7	89
15	Hybrid Discrete-Continuum Approach to Model Hydromechanical Behavior of Soil during Desiccation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	3.0	8
16	Capturing snapback in indirect tensile testing using AUSBIT - Adelaide University Snap-Back Indirect Tensile test. International Journal of Rock Mechanics and Minings Sciences, 2021, 147, 104897.	5.8	5
17	A general SPH framework for transient seepage flows through unsaturated porous media considering anisotropic diffusion. Computer Methods in Applied Mechanics and Engineering, 2021, 387, 114169.	6.6	24
18	A thermodynamics- and mechanism-based framework for constitutive models with evolving thickness of localisation band. International Journal of Solids and Structures, 2020, 187, 100-120	2.7	36

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19	Investigation of the compressive behavior and failure modes of unconfined and FRP-confined concrete using digital image correlation. Composite Structures, 2020, 252, 112642.	5.8	29
20	Strain burst vulnerability criterion based on energy-release rate. Engineering Fracture Mechanics, 2020, 237, 107232.	4.3	12
21	A combined theoretical-experimental approach for modelling ductile fracture of cold-reduced G450 steel sheet. International Journal of Solids and Structures, 2020, 200-201, 242-265.	2.7	5
22	A scalable parallel computing SPH framework for predictions of geophysical granular flows. Computers and Geotechnics, 2020, 121, 103474.	4.7	34
23	Simulation of mixedâ€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
24	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
25	Meshfree SPH modelling of shrinkage induced cracking in clayey soils. Lecture Notes in Civil Engineering, 2020, , 889-894.	0.4	5
26	Numerical predictions of post-flow behaviour of granular materials using an improved SPH model. Lecture Notes in Civil Engineering, 2020, , 895-900.	0.4	8
27	Predicting onset and orientation of localisation bands using a cohesive-frictional model. Lecture Notes in Civil Engineering, 2020, , 311-316.	0.4	1
28	Effects of material properties on the mobility of granular flow. Granular Matter, 2020, 22, 1.	2.2	30
29	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
30	Modelling 3D desiccation cracking in clayey soils using a size-dependent SPH computational approach. Computers and Geotechnics, 2019, 116, 103209.	4.7	44
31	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
32	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
33	A generic approach to modelling flexible confined boundary conditions in <scp>SPH</scp> and its application. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 1005-1031.	3.3	31
34	An experimental and theoretical stress-strain-damage correlation procedure for constitutive modelling of granite. International Journal of Rock Mechanics and Minings Sciences, 2019, 116, 1-12.	5.8	33
35	Block shear strength and behaviour of cold-reduced G450 steel bolted connections using DIC. Journal of Constructional Steel Research, 2019, 157, 151-160.	3.9	20
36	An empirical approach for the quantification of uniaxial compressive stress-strain of partially saturated granular media under high strain rates. Soil Dynamics and Earthquake Engineering, 2019, 120, 245-256.	3.8	6

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37	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
38	Influence of dry density and confinement environment on the high strain rate response of partially saturated sand. International Journal of Impact Engineering, 2018, 116, 65-78.	5.0	16
39	Effects of Thermal Damage on Strain Burst Mechanism for Brittle Rocks Under True-Triaxial Loading Conditions. Rock Mechanics and Rock Engineering, 2018, 51, 1657-1682.	5.4	103
40	A smoothed particle hydrodynamics framework for modelling multiphase interactions at meso-scale. Computational Mechanics, 2018, 62, 1071-1085.	4.0	16
41	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
42	Localised failure mechanism as the basis for constitutive modelling of geomaterials. International Journal of Engineering Science, 2018, 133, 284-310.	5.0	40
43	Influence of deviatoric stress on rockburst occurrence: An experimental study. International Journal of Mining Science and Technology, 2018, 28, 763-766.	10.3	24
44	Coarse-grained modeling of multiphase interactions at microscale. Journal of Chemical Physics, 2018, 149, 124505.	3.0	4
45	Evaluation of cement sheath integrity subject to enhanced pressure. Journal of Petroleum Science and Engineering, 2018, 170, 1-13.	4.2	53
46	Experimental Study on the Damage Evolution of Brittle Rock Under Triaxial Confinement with Full Circumferential Strain Control. Rock Mechanics and Rock Engineering, 2018, 51, 3321-3341.	5.4	65
47	A thermodynamics-based model for brittle to ductile behaviour and localised failure of porous rocks. International Journal of Solids and Structures, 2018, 152-153, 161-184.	2.7	16
48	Failure Analysis of a Cold-Rolled Steel Tensile Specimen Using a Damage-Plasticity Model. Lecture Notes in Civil Engineering, 2018, , 131-141.	0.4	0
49	A new SPH-based approach to simulation of granular flows using viscous damping and stress regularisation. Landslides, 2017, 14, 69-81.	5.4	112
50	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
51	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
52	A thermodynamics-based formulation for constitutive modelling using damage mechanics and plasticity theory. Engineering Structures, 2017, 143, 22-39.	5.3	18
53	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
54	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

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55	A kinematically enhanced constitutive model for elastic and inelastic analysis of unidirectional fibre reinforced composite materials. International Journal of Mechanical Sciences, 2017, 126, 171-185.	6.7	7
56	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
57	Uniaxial compressive behavior of partially saturated granular media under high strain rates. International Journal of Impact Engineering, 2017, 102, 156-168.	5.0	22
58	Modelling jointed rock mass as a continuum with an embedded cohesive-frictional model. Engineering Geology, 2017, 228, 107-120.	6.3	37
59	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
60	Residual opening of hydraulic fractures created using the channel fracturing technique. International Journal of Rock Mechanics and Minings Sciences, 2017, 100, 124-137.	5.8	7
61	SPH Simulation of Strain Localisation in Geomaterials Using a Visco-Plastic Constitutive Model. , 2017, , .		8
62	Numerical Study of Particle Size Distribution Effect on the Failure of Asphalt Mixtures Using Discrete Element Method. , 2017, , .		3
63	Discrete Element Modelling of the Mechanical Behaviour of a Highly Porous Foamed Concrete. , 2017, ,		3
64	A Continuum Based Approach to Modelling Tensile Cracks in Soils. , 2017, , .		5
65	A Mesh-Free Continuum Based Computational Approach to Modelling Rock Fracture. , 2017, , .		7
66	Influence of specimen dimensions on bursting behaviour of rocks under true triaxial loading condition. , 2017, , .		2
67	A size-dependent constitutive modelling framework for localised failure analysis. Computational Mechanics, 2016, 58, 257-280.	4.0	37
68	Ligand-mediated adhesive mechanics of two static, deformed spheres. European Physical Journal E, 2016, 39, 95.	1.6	6
69	Constitutive modelling of compaction localisation in porous sandstones. International Journal of Rock Mechanics and Minings Sciences, 2016, 83, 57-72.	5.8	40
70	An application of breakage mechanics for predicting energy–size reduction relationships in comminution. Powder Technology, 2016, 287, 121-130.	4.2	16
71	On the evaluation of stress intensity factor from displacement field affected by 3D corner singularity. International Journal of Solids and Structures, 2016, 78-79, 131-137.	2.7	19
72	A numerical study of bioinspired nacre-like composite plates under blast loading. Composite Structures, 2015, 126, 329-336.	5.8	54

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73	Editorial note — On the aims & scope and priority areas in Materials & Design. Materials and Design, 2015, 88, 1377-1380.	7.0	16
74	A nonlocal coupled damage-plasticity model for the analysis of ductile failure. International Journal of Plasticity, 2015, 64, 56-75.	8.8	73
75	Numerical investigation of the impact behaviour of bioinspired nacre-like aluminium composite plates. Composites Science and Technology, 2014, 96, 13-22.	7.8	113
76	A thermodynamics-based cohesive model for interface debonding and friction. International Journal of Solids and Structures, 2014, 51, 647-659.	2.7	42
77	A thermomechanical constitutive model for cemented granular materials with quantifiable internal variables. Part II – Validation and localization analysis. Journal of the Mechanics and Physics of Solids, 2014, 70, 382-405.	4.8	59
78	A thermomechanical constitutive model for cemented granular materials with quantifiable internal variables. Part l—Theory. Journal of the Mechanics and Physics of Solids, 2014, 70, 281-296.	4.8	76
79	A constitutive modelling framework featuring two scales of behaviour: Fundamentals and applications to quasi-brittle failure. Engineering Fracture Mechanics, 2014, 115, 221-240.	4.3	37
80	The propagation of compaction bands in porous rocks based on breakage mechanics. Journal of Geophysical Research: Solid Earth, 2013, 118, 2049-2066.	3.4	42
81	A Micromechanics Based Model for Cemented Granular Materials. Springer Series in Geomechanics and Geoengineering, 2013, , 527-534.	0.1	5
82	Crack Modelling Using the Material Point Method and a Strong Discontinuity Approach. Key Engineering Materials, 2012, 525-526, 513-516.	0.4	1
83	A generic approach to constitutive modelling of composite delamination under mixed-mode loading conditions. Composites Science and Technology, 2012, 72, 269-277.	7.8	10
84	On the partition of fracture energy in constitutive modelling of quasi-brittle materials. Engineering Fracture Mechanics, 2012, 79, 225-244.	4.3	15
85	Compaction bands due to grain crushing in porous rocks: A theoretical approach based on breakage mechanics. Journal of Geophysical Research, 2011, 116, .	3.3	73
86	A damage model with evolving nonlocal interactions. International Journal of Solids and Structures, 2011, 48, 1544-1559.	2.7	42
87	A stressâ€return algorithm for nonlocal constitutive models of softening materials. International Journal for Numerical Methods in Engineering, 2010, 82, 637-670.	2.8	10
88	Nonlocal regularisation of a model based on breakage mechanics for granular materials. International Journal of Solids and Structures, 2010, 47, 1350-1360.	2.7	25
89	Steady state permeability profiles surrounding penetrating piles in crushable granular media. , 2010, , 789-795.		1
90	The Energetics of Cataclasis Based on Breakage Mechanics. Pure and Applied Geophysics, 2009, 166, 1693-1724.	1.9	96

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91	Consistent tangent stiffness for local-nonlocal damage modelling of metals. Procedia Engineering, 2009, 1, 177-180.	1.2	7
92	A coupled damage–plasticity model for concrete based on thermodynamic principles: Part I: model formulation and parameter identification. International Journal for Numerical and Analytical Methods in Geomechanics, 2008, 32, 353-389.	3.3	44
93	A coupled damage–plasticity model for concrete based on thermodynamic principles: Part II: nonâ€local regularization and numerical implementation. International Journal for Numerical and Analytical Methods in Geomechanics, 2008, 32, 391-413.	3.3	25
94	A thermodynamic approach to non-local damage modelling of concrete. International Journal of Solids and Structures, 2008, 45, 1918-1934.	2.7	25
95	Development of an approach to constitutive modelling of concrete: Isotropic damage coupled with plasticity. International Journal of Solids and Structures, 2008, 45, 5483-5501.	2.7	56
96	Metrics for evaluating linear features. Geophysical Research Letters, 2008, 35, .	4.0	6
97	Non-local damage modelling of concrete: a procedure for the determination of model parameters. International Journal for Numerical and Analytical Methods in Geomechanics, 2007, 31, 867-891.	3.3	23
98	A One-Dimensional Nonlocal Damage-Plasticity Model for Ductile Materials. International Journal of Fracture, 2007, 144, 53-60.	2.2	13
99	The analysis of deformation size effects using multiple gauge length extensometry and the essential work of rupture concept. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 423, 192-198.	5.6	13
100	Damage-Plasticity Modelling of Concrete: Calibration of Parameters using Separation of Fracture Energy. International Journal of Fracture, 2006, 139, 325-332.	2.2	7
101	Analysis of Essential Work of Rupture using Non-local Damage-plasticity Modelling. International Journal of Fracture, 2005, 135, L19-L26.	2.2	16
102	Finite-Element Modelling of the Impact Behaviour of Aluminium Nacre-Like Composite. Applied Mechanics and Materials, 0, 566, 457-462.	0.2	3
103	A computationally efficient SPH framework for unsaturated soils and its application to predicting the entire rainfall-induced slope failure process. Geotechnique, 0, , 1-19.	4.0	8