

Hong Zheng

List of Publications by Year in descending order

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131
papers

6,212
citations

53794

45
h-index

79698

73
g-index

131
all docs

131
docs citations

131
times ranked

2858
citing authors

#	ARTICLE	IF	CITATIONS
1	Switching the Recognition Preference of Rhodamine B Spirolactam by Replacing One Atom: Design of Rhodamine B Thiohydrazide for Recognition of Hg(II) in Aqueous Solution. <i>Organic Letters</i> , 2006, 8, 859-861.	4.6	357
2	New strategies for some issues of numerical manifold method in simulation of crack propagation. <i>International Journal for Numerical Methods in Engineering</i> , 2014, 97, 986-1010.	2.8	234
3	Defect-Rich Adhesive Molybdenum Disulfide/rGO Vertical Heterostructures with Enhanced Nanozyme Activity for Smart Bacterial Killing Application. <i>Advanced Materials</i> , 2020, 32, e2005423.	21.0	207
4	Three-dimensional fracture propagation with numerical manifold method. <i>Engineering Analysis With Boundary Elements</i> , 2016, 72, 65-77.	3.7	200
5	Combined Finite-Discrete Element Method for Simulation of Hydraulic Fracturing. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 1389-1410.	5.4	184
6	Hydraulic fracturing modeling using the enriched numerical manifold method. <i>Applied Mathematical Modelling</i> , 2018, 53, 462-486.	4.2	173
7	Identification of risk loci and a polygenic risk score for lung cancer: a large-scale prospective cohort study in Chinese populations. <i>Lancet Respiratory Medicine</i> , 2019, 7, 881-891.	10.7	167
8	Fluorogenic and Chromogenic Rhodamine Spirolactam Based Probe for Nitric Oxide by Spiro Ring Opening Reaction. <i>Organic Letters</i> , 2008, 10, 2357-2360.	4.6	138
9	Complementarity problem arising from static growth of multiple cracks and MLS-based numerical manifold method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 295, 150-171.	6.6	137
10	Primal mixed solution to unconfined seepage flow in porous media with numerical manifold method. <i>Applied Mathematical Modelling</i> , 2015, 39, 794-808.	4.2	131
11	A practical procedure for searching critical slip surfaces of slopes based on the strength reduction technique. <i>Computers and Geotechnics</i> , 2009, 36, 1-5.	4.7	128
12	A fully coupled three-dimensional hydro-mechanical finite discrete element approach with real porous seepage for simulating 3D hydraulic fracturing. <i>Computers and Geotechnics</i> , 2018, 96, 73-89.	4.7	127
13	Investigation of the sequential excavation of a soil-rock-mixture slope using the numerical manifold method. <i>Engineering Geology</i> , 2019, 256, 93-109.	6.3	117
14	FDEM-flow3D: A 3D hydro-mechanical coupled model considering the pore seepage of rock matrix for simulating three-dimensional hydraulic fracturing. <i>Computers and Geotechnics</i> , 2017, 81, 212-228.	4.7	111
15	Modeling the entire progressive failure process of rock slopes using a strength-based criterion. <i>Computers and Geotechnics</i> , 2020, 126, 103726.	4.7	111
16	A coupled thermo-mechanical model based on the combined finite-discrete element method for simulating thermal cracking of rock. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2017, 91, 170-178.	5.8	106
17	The MLS-based numerical manifold method with applications to crack analysis. <i>International Journal of Fracture</i> , 2014, 190, 147-166.	2.2	103
18	Dual form of discontinuous deformation analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 305, 196-216.	6.6	88

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19	Reformulation of dynamic crack propagation using the numerical manifold method. Engineering Analysis With Boundary Elements, 2019, 105, 279-295.	3.7	88
20	A rigorous and unified mass lumping scheme for higher-order elements. Computer Methods in Applied Mechanics and Engineering, 2017, 319, 491-514.	6.6	87
21	A two-dimensional coupled hydro-mechanical finite-discrete model considering porous media flow for simulating hydraulic fracturing. International Journal of Rock Mechanics and Minings Sciences, 2016, 88, 115-128.	5.8	86
22	A three-node triangular element fitted to numerical manifold method with continuous nodal stress for crack analysis. Engineering Fracture Mechanics, 2016, 162, 51-75.	4.3	83
23	An improved numerical manifold method with multiple layers of mathematical cover systems for the stability analysis of soil-rock-mixture slopes. Engineering Geology, 2020, 264, 105373.	6.3	82
24	Direct Approach to Treatment of Contact in Numerical Manifold Method. International Journal of Geomechanics, 2017, 17, .	2.7	80
25	Numerical manifold space of Hermitian form and application to Kirchhoff's thin plate problems. International Journal for Numerical Methods in Engineering, 2013, 95, 721-739.	2.8	78
26	A three-dimensional rigorous method for stability analysis of landslides. Engineering Geology, 2012, 145-146, 30-40.	6.3	73
27	Numerical study of soil-rock mixture: Generation of random aggregate structure. Science China Technological Sciences, 2018, 61, 359-369.	4.0	72
28	Three-Dimensional Hydromechanical Model of Hydraulic Fracturing with Arbitrarily Discrete Fracture Networks using Finite-Discrete Element Method. International Journal of Geomechanics, 2017, 17, .	2.7	71
29	Discontinuous deformation analysis based on complementary theory. Science in China Series D: Earth Sciences, 2009, 52, 2547-2554.	0.9	68
30	On generation of lumped mass matrices in partition of unity based methods. International Journal for Numerical Methods in Engineering, 2017, 112, 1040-1069.	2.8	67
31	A four-node quadrilateral element fitted to numerical manifold method with continuous nodal stress for crack analysis. Computers and Structures, 2016, 177, 69-82.	4.4	64
32	Explicit Discontinuous Deformation Analysis Method with Lumped Mass Matrix for Highly Discrete Block System. International Journal of Geomechanics, 2018, 18, .	2.7	63
33	Parameter inversion and deformation mechanism of Sanmending landslide in the Three Gorges Reservoir region under the combined effect of reservoir water level fluctuation and rainfall. Engineering Geology, 2016, 205, 133-145.	6.3	59
34	Numerical manifold method for vibration analysis of Kirchhoff's plates of arbitrary geometry. Applied Mathematical Modelling, 2019, 66, 695-727.	4.2	59
35	A polygenic risk score improves risk stratification of coronary artery disease: a large-scale prospective Chinese cohort study. European Heart Journal, 2022, 43, 1702-1711.	2.2	58
36	Hydro-mechanical simulation of the saturated and semi-saturated porous soil-rock mixtures using the numerical manifold method. Computer Methods in Applied Mechanics and Engineering, 2020, 370, 113238.	6.6	55

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37	Huangtupo landslide stability under water level fluctuations of the Three Gorges reservoir. Landslides, 2016, 13, 1167-1179.	5.4	53
38	A three-dimensional heat transfer and thermal cracking model considering the effect of cracks on heat transfer. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 1825-1853.	3.3	53
39	Sequential excavation analysis of soil-rock-mixture slopes using an improved numerical manifold method with multiple layers of mathematical cover systems. Engineering Geology, 2019, 261, 105278.	6.3	50
40	Modeling unconfined seepage flow in soil-rock mixtures using the numerical manifold method. Engineering Analysis With Boundary Elements, 2019, 108, 60-70.	3.7	50
41	Mixed linear complementarity formulation of discontinuous deformation analysis. International Journal of Rock Mechanics and Minings Sciences, 2015, 75, 23-32.	5.8	49
42	Investigation of rock slope stability using a 3D nonlinear strength-reduction numerical manifold method. Engineering Geology, 2021, 292, 106285.	6.3	49
43	Boundary settings for the seismic dynamic response analysis of rock masses using the numerical manifold method. International Journal for Numerical and Analytical Methods in Geomechanics, 2018, 42, 1095-1122.	3.3	48
44	Stability analysis of soil-rock-mixture slopes using the numerical manifold method. Engineering Analysis With Boundary Elements, 2019, 109, 153-160.	3.7	48
45	Stability analysis of slopes using the vector sum numerical manifold method. Bulletin of Engineering Geology and the Environment, 2021, 80, 345-352.	3.5	48
46	A global procedure for stability analysis of slopes based on the Morgenstern-Price assumption and its applications. Computers and Geotechnics, 2016, 80, 97-106.	4.7	47
47	Exact imposition of essential boundary condition and material interface continuity in Galerkin-based meshless methods. International Journal for Numerical Methods in Engineering, 2017, 110, 637-660.	2.8	45
48	Numerical determination of the effective permeability coefficient of soil-rock mixtures using the numerical manifold method. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 381-414.	3.3	45
49	Comparative performance of eight ensemble learning approaches for the development of models of slope stability prediction. Acta Geotechnica, 2022, 17, 1477-1502.	5.7	41
50	Improved Bell's method for the stability analysis of slopes. International Journal for Numerical and Analytical Methods in Geomechanics, 2009, 33, 1673-1689.	3.3	39
51	A high-order numerical manifold method with continuous stress/strain field. Applied Mathematical Modelling, 2020, 78, 576-600.	4.2	39
52	A phase field numerical manifold method for crack propagation in quasi-brittle materials. Engineering Fracture Mechanics, 2021, 241, 107427.	4.3	39
53	The virtual element method strength reduction technique for the stability analysis of stony soil slopes. Computers and Geotechnics, 2020, 119, 103349.	4.7	38
54	Dysregulation of CUL4A and CUL4B Ubiquitin Ligases in Lung Cancer. Journal of Biological Chemistry, 2017, 292, 2966-2978.	3.4	37

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55	MiR-502/SET8 regulatory circuit in pathobiology of breast cancer. <i>Cancer Letters</i> , 2016, 376, 259-267.	7.2	36
56	Modeling complex crack problems using the three-node triangular element fitted to numerical manifold method with continuous nodal stress. <i>Science China Technological Sciences</i> , 2017, 60, 1537-1547.	4.0	36
57	Numerical manifold computational homogenization for hydro-dynamic analysis of discontinuous heterogeneous porous media. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 388, 114254.	6.6	36
58	Enriched three-field numerical manifold formulation for dynamics of fractured saturated porous media. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 353, 217-252.	6.6	34
59	Modelling the stability of a soil-rock-mixture slope based on the digital image technology and strength reduction numerical manifold method. <i>Engineering Analysis With Boundary Elements</i> , 2021, 126, 45-54.	3.7	33
60	Sâ€R decomposition based numerical manifold method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 304, 452-478.	6.6	32
61	The linear analysis of thin shell problems using the numerical manifold method. <i>Thin-Walled Structures</i> , 2018, 124, 366-383.	5.3	32
62	Slope stability analysis using convergent strength reduction method. <i>Engineering Analysis With Boundary Elements</i> , 2019, 108, 402-410.	3.7	32
63	Eigenvalue Problem from the Stability Analysis of Slopes. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2009, 135, 647-656.	3.0	31
64	Three-dimensional discontinuous deformation analysis based on strain-rotation decomposition. <i>Computers and Geotechnics</i> , 2018, 95, 191-210.	4.7	31
65	Searching for critical slip surfaces of slopes using stress fields by numerical manifold method. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2020, 12, 1313-1325.	8.1	30
66	Kinetic analysis of polyhedral block system using an improved potential-based penalty function approach for explicit discontinuous deformation analysis. <i>Applied Mathematical Modelling</i> , 2020, 82, 314-335.	4.2	30
67	Evaluation and prediction of slope stability using machine learning approaches. <i>Frontiers of Structural and Civil Engineering</i> , 2021, 15, 821-833.	2.9	30
68	Enriched mixed numerical manifold formulation with continuous nodal gradients for dynamics of fractured poroelasticity. <i>Applied Mathematical Modelling</i> , 2020, 86, 225-258.	4.2	29
69	Discontinuous deformation analysis based on strain-rotation decomposition. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2017, 92, 19-29.	5.8	27
70	Modeling Wave Propagation in Rock Masses Using the Contact Potential-Based Three-Dimensional Discontinuous Deformation Analysis Method. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 2465-2490.	5.4	27
71	DISCONTINUOUS DEFORMATION ANALYSIS BASED ON VARIATIONAL INEQUALITY THEORY. <i>International Journal of Computational Methods</i> , 2011, 08, 193-208.	1.3	26
72	miR-485-5p Binding Site SNP rs8752 in HPGD Gene Is Associated with Breast Cancer Risk. <i>PLoS ONE</i> , 2014, 9, e102093.	2.5	26

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73	Construct "FE-Meshfree"™ Quad4 using mean value coordinates. Engineering Analysis With Boundary Elements, 2015, 59, 78-88.	3.7	25
74	Two-dimensional numerical manifold method with multilayer covers. Science China Technological Sciences, 2016, 59, 515-530.	4.0	25
75	Numerical manifold method for dynamic consolidation of saturated porous media with three-field formulation. International Journal for Numerical Methods in Engineering, 2019, 120, 768-802.	2.8	25
76	A high order local approximation free from linear dependency with quadrilateral mesh as mathematical cover and applications to linear elastic fractures. Computers and Structures, 2017, 178, 1-16.	4.4	24
77	A cover-based contact detection approach for irregular convex polygons in discontinuous deformation analysis. International Journal for Numerical and Analytical Methods in Geomechanics, 2021, 45, 208-233.	3.3	24
78	MRT-LBM-based numerical simulation of seepage flow through fractal fracture networks. Science China Technological Sciences, 2013, 56, 3115-3122.	4.0	23
79	A high-order three dimensional numerical manifold method with continuous stress/strain field. Engineering Analysis With Boundary Elements, 2020, 117, 309-320.	3.7	23
80	A global procedure for evaluating stability of three-dimensional slopes. Natural Hazards, 2012, 61, 1083-1098.	3.4	22
81	A stability analysis of rock slopes using a nonlinear strength reduction numerical manifold method. Computers and Geotechnics, 2021, 129, 103864.	4.7	22
82	A domain decomposition based method for two-dimensional linear elastic fractures. Engineering Analysis With Boundary Elements, 2016, 66, 34-48.	3.7	20
83	Variational inequality-based framework of discontinuous deformation analysis. International Journal for Numerical Methods in Engineering, 2018, 115, 358-394.	2.8	20
84	A high order numerical manifold method and its application to linear elastic continuous and fracture problems. Science China Technological Sciences, 2018, 61, 346-358.	4.0	20
85	The numerical manifold method for exterior problems. Computer Methods in Applied Mechanics and Engineering, 2020, 364, 112968.	6.6	20
86	An explicit representation of cracks in the variational phase field method for brittle fractures. Computer Methods in Applied Mechanics and Engineering, 2021, 387, 114127.	6.6	20
87	Condensed form of complementarity formulation for discontinuous deformation analysis. Science China Technological Sciences, 2015, 58, 1509-1519.	4.0	18
88	Discontinuous deformation analysis with distributed bond for the modelling of rock deformation and failure. Computers and Geotechnics, 2021, 139, 104413.	4.7	18
89	Urban-rural disparity of overweight/obesity distribution and its potential trend with breast cancer among Chinese women. Oncotarget, 2016, 7, 56608-56618.	1.8	18
90	A functional single nucleotide polymorphism of SET8 is prognostic for breast cancer. Oncotarget, 2016, 7, 34277-34287.	1.8	18

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91	Global method for stability analysis of anchored slopes. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 124-137.	3.3	17
92	A mixed three-node triangular element with continuous nodal stress for fully dynamic consolidation of porous media. Engineering Analysis With Boundary Elements, 2020, 113, 232-258.	3.7	17
93	Three-dimensional numerical manifold formulation with continuous nodal gradients for dynamics of elasto-plastic porous media. Computer Methods in Applied Mechanics and Engineering, 2022, 388, 114203.	6.6	16
94	A practical solution for KKT systems. Numerical Algorithms, 2007, 46, 105-119.	1.9	15
95	A decomposition technique of generalized degrees of freedom for mixedmode crack problems. International Journal for Numerical Methods in Engineering, 2017, 112, 803-831.	2.8	15
96	Mathematical cover refinement of the numerical manifold method for the stability analysis of a soil-rock-mixture slope. Engineering Analysis With Boundary Elements, 2020, 116, 64-76.	3.7	15
97	Determination of critical slip surface and safety factor of slope using the vector sum numerical manifold method and MAX-MIN ant colony optimization algorithm. Engineering Analysis With Boundary Elements, 2021, 127, 64-74.	3.7	15
98	An Uzawa-type augmented Lagrangian numerical manifold method for frictional discontinuities in rock masses. International Journal of Rock Mechanics and Minings Sciences, 2021, 148, 104970.	5.8	15
99	Mechanisms of Interaction Between an Arch Dam and Abutment Slope Using Physical Model Tests. Rock Mechanics and Rock Engineering, 2018, 51, 2483-2504.	5.4	13
100	On the implementation of a hydro-mechanical coupling model in the numerical manifold method. Engineering Analysis With Boundary Elements, 2019, 109, 161-175.	3.7	13
101	Variational inequality-based particle discontinuous deformation analysis. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 1995-2019.	3.3	13
102	A mass lumping scheme for the second-order numerical manifold method. Computers and Structures, 2019, 213, 23-39.	4.4	13
103	Hydro-mechanical multiscale numerical manifold model of the three-dimensional heterogeneous poro-elasticity. Applied Mathematical Modelling, 2022, 110, 779-818.	4.2	12
104	Ba ²⁺ -doping to Improve the Cycling Stability of LiNi _{0.5} Mn _{0.5} O ₂ Cathode Materials for Batteries Operating at High Voltage. Energy Technology, 2018, 6, 1302-1309.	3.8	10
105	Shear band static evolution by spatially mobilized plane criterion based Drucker-Prager model and numerical manifold method. Computers and Geotechnics, 2021, 132, 103962.	4.7	10
106	Local refinement with arbitrary irregular meshes and implementation in numerical manifold method. Engineering Analysis With Boundary Elements, 2021, 132, 231-247.	3.7	10
107	Altered expression and loss of heterozygosity of the migration and invasion inhibitory protein (MIIP) gene in breast cancer. Oncology Reports, 2015, 33, 2771-2778.	2.6	9
108	An Enriched Edge-Based Smoothed FEM for Linear Elastic Fracture Problems. International Journal of Computational Methods, 2017, 14, 1750052.	1.3	9

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109	Stability analysis of landslides using BEM and variational inequality based contact model. Computers and Geotechnics, 2020, 123, 103575.	4.7	9
110	A robust potential-based contact force solution approach for discontinuous deformation analysis of irregular convex polygonal block/particle systems. Acta Geotechnica, 2021, 16, 679-697.	5.7	9
111	Global analysis on slope stability and its engineering application. Science in China Series D: Earth Sciences, 2009, 52, 507-512.	0.9	8
112	A nonlinear complementarity approach for elastoplastic problems by BEM without internal cells. Engineering Analysis With Boundary Elements, 2011, 35, 313-318.	3.7	8
113	Cauchy problem of three-dimensional critical slip surfaces of slopes. International Journal for Numerical and Analytical Methods in Geomechanics, 2011, 35, 519-527.	3.3	8
114	A Three-Node Triangular Element with Continuous Nodal Stress (Trig3-CNS) for Geometry Nonlinear Solid Mechanics Problems. International Journal of Computational Methods, 2018, 15, 1850022.	1.3	8
115	A four-node tetrahedral element with continuous nodal stress. Computers and Structures, 2017, 191, 180-192.	4.4	6
116	Extremum solutions to the limit equilibrium method subjected to physical admissibility. Natural Hazards, 2013, 65, 79-96.	3.4	5
117	Novel displacement function for discontinuous deformation analysis based on mean value coordinates. International Journal for Numerical Methods in Engineering, 2020, 121, 4768-4792.	2.8	5
118	Three-Dimensional Porous Carbon Materials from Coix lacryma-jobi L. Shells for High-Performance Supercapacitor. ChemistrySelect, 2022, 7, .	1.5	5
119	A mass lumping scheme for the 10-node tetrahedral element. Engineering Analysis With Boundary Elements, 2019, 106, 190-200.	3.7	4
120	Tumor specific methylome in Chinese high-grade serous ovarian cancer characterized by gene expression profile and tumor genotype. Gynecologic Oncology, 2020, 158, 178-187.	1.4	4
121	Some Displacement Boundary Inaccuracies in Numerical Manifold Method and Treatments. Journal of Engineering Mechanics - ASCE, 2021, 147, 04021105.	2.9	4
122	Dimension extending technique for constitutive integration of plasticity with hardening-softening behaviors. Computer Methods in Applied Mechanics and Engineering, 2022, 394, 114833.	6.6	4
123	Hybrid Analytical and MLS-Based NMM for the Determination of Generalized Stress Intensity Factors. Mathematical Problems in Engineering, 2015, 2015, 1-9.	1.1	3
124	A partition-of-unity based three-node triangular element with continuous nodal stress using radial-polynomial basis functions. Science China Technological Sciences, 2017, 60, 1518-1536.	4.0	3
125	Mixed multiscale three-node triangular elements for incompressible elasticity. Engineering Computations, 2019, 36, 2859-2886.	1.4	3
126	Influence of soil non-homogeneity on shear band evolution investigated by the numerical manifold method combined with the assumed enhanced strain method. Engineering Analysis With Boundary Elements, 2021, 127, 1-7.	3.7	3

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127	Xylenol Orange-Functionalized Halloysite Nanotubes as a Novel Adsorbent for Selective Solid-phase Extraction and Determination of Trace Noble Elements. Journal of the Chinese Chemical Society, 2017, 64, 953-961.	1.4	2
128	Improved Gauss Seidel based projectionâ€“contraction algorithm for the mixed complementarity problem in contact problem. International Journal for Numerical and Analytical Methods in Geomechanics, 0, , .	3.3	1
129	Reply to “Comments on “On two definitions of the factor of safety commonly used in the finite element slope stability analysis” by Hong Zheng, L.G. Tham and Defu Liu,” by R. Baker [Computers and Geotechnics 33 (2006) 188â€“195]. Computers and Geotechnics, 2007, 34, 126.	4.7	0
130	Performance of pentacene-based organic field effect transistors using different polymer gate dielectrics. Optoelectronics Letters, 2009, 5, 409-412.	0.8	0
131	Discontinuity Capture in One-Dimensional Space Using the Numerical Manifold Method with High-Order Legendre Polynomials. Applied Sciences (Switzerland), 2020, 10, 9123.	2.5	0