

Hong Zheng

List of Publications by Year in descending order

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131
papers

6,212
citations

53660

45
h-index

79541

73
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131
all docs

131
docs citations

131
times ranked

2858
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.4	36
2	Three-dimensional numerical manifold formulation with continuous nodal gradients for dynamics of elasto-plastic porous media. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 388, 114203.	3.4	16
3	Comparative performance of eight ensemble learning approaches for the development of models of slope stability prediction. <i>Acta Geotechnica</i> , 2022, 17, 1477-1502.	2.9	41
4	A polygenic risk score improves risk stratification of coronary artery disease: a large-scale prospective Chinese cohort study. <i>European Heart Journal</i> , 2022, 43, 1702-1711.	1.0	58
5	Three-dimensional Porous Carbon Materials from Coix lacrymaeflora Shells for High-performance Supercapacitor. <i>ChemistrySelect</i> , 2022, 7, .	0.7	5
6	Dimension extending technique for constitutive integration of plasticity with hardening-softening behaviors. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 394, 114833.	3.4	4
7	Hydro-mechanical multiscale numerical manifold model of the three-dimensional heterogeneous poro-elasticity. <i>Applied Mathematical Modelling</i> , 2022, 110, 779-818.	2.2	12
8	A robust potential-based contact force solution approach for discontinuous deformation analysis of irregular convex polygonal block/particle systems. <i>Acta Geotechnica</i> , 2021, 16, 679-697.	2.9	9
9	A phase field numerical manifold method for crack propagation in quasi-brittle materials. <i>Engineering Fracture Mechanics</i> , 2021, 241, 107427.	2.0	39
10	A stability analysis of rock slopes using a nonlinear strength reduction numerical manifold method. <i>Computers and Geotechnics</i> , 2021, 129, 103864.	2.3	22
11	A coverage-based contact detection approach for irregular convex polygons in discontinuous deformation analysis. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2021, 45, 208-233.	1.7	24
12	Stability analysis of slopes using the vector sum numerical manifold method. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 345-352.	1.6	48
13	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.	2.6	27
14	Shear band static evolution by spatially mobilized plane criterion based Drucker-Prager model and numerical manifold method. <i>Computers and Geotechnics</i> , 2021, 132, 103962.	2.3	10
15	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.	2.0	33
16	Influence of soil non-homogeneity on shear band evolution investigated by the numerical manifold method combined with the assumed enhanced strain method. <i>Engineering Analysis With Boundary Elements</i> , 2021, 127, 1-7.	2.0	3
17	Determination of critical slip surface and safety factor of slope using the vector sum numerical manifold method and MAX-MIN ant colony optimization algorithm. <i>Engineering Analysis With Boundary Elements</i> , 2021, 127, 64-74.	2.0	15
18	Evaluation and prediction of slope stability using machine learning approaches. <i>Frontiers of Structural and Civil Engineering</i> , 2021, 15, 821-833.	1.2	30

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19	Investigation of rock slope stability using a 3D nonlinear strength-reduction numerical manifold method. <i>Engineering Geology</i> , 2021, 292, 106285.	2.9	49
20	Local refinement with arbitrary irregular meshes and implementation in numerical manifold method. <i>Engineering Analysis With Boundary Elements</i> , 2021, 132, 231-247.	2.0	10
21	Discontinuous deformation analysis with distributed bond for the modelling of rock deformation and failure. <i>Computers and Geotechnics</i> , 2021, 139, 104413.	2.3	18
22	An explicit representation of cracks in the variational phase field method for brittle fractures. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 387, 114127.	3.4	20
23	Some Displacement Boundary Inaccuracies in Numerical Manifold Method and Treatments. <i>Journal of Engineering Mechanics - ASCE</i> , 2021, 147, 04021105.	1.6	4
24	An Uzawa-type augmented Lagrangian numerical manifold method for frictional discontinuities in rock masses. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 148, 104970.	2.6	15
25	An improved numerical manifold method with multiple layers of mathematical cover systems for the stability analysis of soil-rock-mixture slopes. <i>Engineering Geology</i> , 2020, 264, 105373.	2.9	82
26	A high-order numerical manifold method with continuous stress/strain field. <i>Applied Mathematical Modelling</i> , 2020, 78, 576-600.	2.2	39
27	The virtual element method strength reduction technique for the stability analysis of stony soil slopes. <i>Computers and Geotechnics</i> , 2020, 119, 103349.	2.3	38
28	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.	3.7	30
29	Modeling the entire progressive failure process of rock slopes using a strength-based criterion. <i>Computers and Geotechnics</i> , 2020, 126, 103726.	2.3	111
30	Defect-Rich Adhesive Molybdenum Disulfide/rGO Vertical Heterostructures with Enhanced Nanozyme Activity for Smart Bacterial Killing Application. <i>Advanced Materials</i> , 2020, 32, e2005423.	11.1	207
31	Discontinuity Capture in One-Dimensional Space Using the Numerical Manifold Method with High-Order Legendre Polynomials. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 9123.	1.3	0
32	Tumor specific methylome in Chinese high-grade serous ovarian cancer characterized by gene expression profile and tumor genotype. <i>Gynecologic Oncology</i> , 2020, 158, 178-187.	0.6	4
33	Mathematical cover refinement of the numerical manifold method for the stability analysis of a soil-rock-mixture slope. <i>Engineering Analysis With Boundary Elements</i> , 2020, 116, 64-76.	2.0	15
34	The numerical manifold method for exterior problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 364, 112968.	3.4	20
35	A high-order three dimensional numerical manifold method with continuous stress/strain field. <i>Engineering Analysis With Boundary Elements</i> , 2020, 117, 309-320.	2.0	23
36	Novel displacement function for discontinuous deformation analysis based on mean value coordinates. <i>International Journal for Numerical Methods in Engineering</i> , 2020, 121, 4768-4792.	1.5	5

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37	Hydro-mechanical simulation of the saturated and semi-saturated porous soil-rock mixtures using the numerical manifold method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 370, 113238.	3.4	55
38	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.	2.2	30
39	Stability analysis of landslides using BEM and variational inequality based contact model. <i>Computers and Geotechnics</i> , 2020, 123, 103575.	2.3	9
40	Enriched mixed numerical manifold formulation with continuous nodal gradients for dynamics of fractured poroelasticity. <i>Applied Mathematical Modelling</i> , 2020, 86, 225-258.	2.2	29
41	A mixed three-node triangular element with continuous nodal stress for fully dynamic consolidation of porous media. <i>Engineering Analysis With Boundary Elements</i> , 2020, 113, 232-258.	2.0	17
42	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.	5.2	167
43	Numerical manifold method for dynamic consolidation of saturated porous media with three-field formulation. <i>International Journal for Numerical Methods in Engineering</i> , 2019, 120, 768-802.	1.5	25
44	Stability analysis of soil-rock-mixture slopes using the numerical manifold method. <i>Engineering Analysis With Boundary Elements</i> , 2019, 109, 153-160.	2.0	48
45	On the implementation of a hydro-mechanical coupling model in the numerical manifold method. <i>Engineering Analysis With Boundary Elements</i> , 2019, 109, 161-175.	2.0	13
46	Sequential excavation analysis of soil-rock-mixture slopes using an improved numerical manifold method with multiple layers of mathematical cover systems. <i>Engineering Geology</i> , 2019, 261, 105278.	2.9	50
47	Slope stability analysis using convergent strength reduction method. <i>Engineering Analysis With Boundary Elements</i> , 2019, 108, 402-410.	2.0	32
48	A mass lumping scheme for the 10-node tetrahedral element. <i>Engineering Analysis With Boundary Elements</i> , 2019, 106, 190-200.	2.0	4
49	Mixed multiscale three-node triangular elements for incompressible elasticity. <i>Engineering Computations</i> , 2019, 36, 2859-2886.	0.7	3
50	Variational inequality-based particle discontinuous deformation analysis. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2019, 43, 1995-2019.	1.7	13
51	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.	3.4	34
52	Investigation of the sequential excavation of a soil-rock-mixture slope using the numerical manifold method. <i>Engineering Geology</i> , 2019, 256, 93-109.	2.9	117
53	Reformulation of dynamic crack propagation using the numerical manifold method. <i>Engineering Analysis With Boundary Elements</i> , 2019, 105, 279-295.	2.0	88
54	A three-dimensional heat transfer and thermal cracking model considering the effect of cracks on heat transfer. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2019, 43, 1825-1853.	1.7	53

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55	Numerical determination of the effective permeability coefficient of soil-rock mixtures using the numerical manifold method. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2019, 43, 381-414.	1.7	45
56	Modeling unconfined seepage flow in soil-rock mixtures using the numerical manifold method. <i>Engineering Analysis With Boundary Elements</i> , 2019, 108, 60-70.	2.0	50
57	A mass lumping scheme for the second-order numerical manifold method. <i>Computers and Structures</i> , 2019, 213, 23-39.	2.4	13
58	Numerical manifold method for vibration analysis of Kirchhoff's plates of arbitrary geometry. <i>Applied Mathematical Modelling</i> , 2019, 66, 695-727.	2.2	59
59	Global method for stability analysis of anchored slopes. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2019, 43, 124-137.	1.7	17
60	Boundary settings for the seismic dynamic response analysis of rock masses using the numerical manifold method. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2018, 42, 1095-1122.	1.7	48
61	Variational inequality-based framework of discontinuous deformation analysis. <i>International Journal for Numerical Methods in Engineering</i> , 2018, 115, 358-394.	1.5	20
62	The linear analysis of thin shell problems using the numerical manifold method. <i>Thin-Walled Structures</i> , 2018, 124, 366-383.	2.7	32
63	Numerical study of soil-rock mixture: Generation of random aggregate structure. <i>Science China Technological Sciences</i> , 2018, 61, 359-369.	2.0	72
64	Ba doping to Improve the Cycling Stability of $\text{LiNi}_{0.5}\text{Mn}_{0.5}\text{O}_2$ Cathode Materials for Batteries Operating at High Voltage. <i>Energy Technology</i> , 2018, 6, 1302-1309.	1.8	10
65	A high order numerical manifold method and its application to linear elastic continuous and fracture problems. <i>Science China Technological Sciences</i> , 2018, 61, 346-358.	2.0	20
66	Three-dimensional discontinuous deformation analysis based on strain-rotation decomposition. <i>Computers and Geotechnics</i> , 2018, 95, 191-210.	2.3	31
67	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.	2.3	127
68	Hydraulic fracturing modeling using the enriched numerical manifold method. <i>Applied Mathematical Modelling</i> , 2018, 53, 462-486.	2.2	173
69	Mechanisms of Interaction Between an Arch Dam and Abutment Slope Using Physical Model Tests. <i>Rock Mechanics and Rock Engineering</i> , 2018, 51, 2483-2504.	2.6	13
70	A Three-Node Triangular Element with Continuous Nodal Stress (Trig3-CNS) for Geometry Nonlinear Solid Mechanics Problems. <i>International Journal of Computational Methods</i> , 2018, 15, 1850022.	0.8	8
71	Explicit Discontinuous Deformation Analysis Method with Lumped Mass Matrix for Highly Discrete Block System. <i>International Journal of Geomechanics</i> , 2018, 18, .	1.3	63
72	On generation of lumped mass matrices in partition of unity based methods. <i>International Journal for Numerical Methods in Engineering</i> , 2017, 112, 1040-1069.	1.5	67

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73	A decomposition technique of generalized degrees of freedom for mixedmode crack problems. International Journal for Numerical Methods in Engineering, 2017, 112, 803-831.	1.5	15
74	A rigorous and unified mass lumping scheme for higher-order elements. Computer Methods in Applied Mechanics and Engineering, 2017, 319, 491-514.	3.4	87
75	Modeling complex crack problems using the three-node triangular element fitted to numerical manifold method with continuous nodal stress. Science China Technological Sciences, 2017, 60, 1537-1547.	2.0	36
76	Discontinuous deformation analysis based on strain-rotation decomposition. International Journal of Rock Mechanics and Minings Sciences, 2017, 92, 19-29.	2.6	27
77	A coupled thermo-mechanical model based on the combined finite-discrete element method for simulating thermal cracking of rock. International Journal of Rock Mechanics and Minings Sciences, 2017, 91, 170-178.	2.6	106
78	Dysregulation of CUL4A and CUL4B Ubiquitin Ligases in Lung Cancer. Journal of Biological Chemistry, 2017, 292, 2966-2978.	1.6	37
79	A four-node tetrahedral element with continuous nodal stress. Computers and Structures, 2017, 191, 180-192.	2.4	6
80	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.	0.8	2
81	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.	2.0	3
82	Three-Dimensional Hydromechanical Model of Hydraulic Fracturing with Arbitrarily Discrete Fracture Networks using Finite-Discrete Element Method. International Journal of Geomechanics, 2017, 17, .	1.3	71
83	An Enriched Edge-Based Smoothed FEM for Linear Elastic Fracture Problems. International Journal of Computational Methods, 2017, 14, 1750052.	0.8	9
84	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.	2.4	24
85	Direct Approach to Treatment of Contact in Numerical Manifold Method. International Journal of Geomechanics, 2017, 17, .	1.3	80
86	FDEM-flow3D: A 3D hydro-mechanical coupled model considering the pore seepage of rock matrix for simulating three-dimensional hydraulic fracturing. Computers and Geotechnics, 2017, 81, 212-228.	2.3	111
87	Exact imposition of essential boundary condition and material interface continuity in Galerkinâ€based meshless methods. International Journal for Numerical Methods in Engineering, 2017, 110, 637-660.	1.5	45
88	A global procedure for stability analysis of slopes based on the Morgenstern-Price assumption and its applications. Computers and Geotechnics, 2016, 80, 97-106.	2.3	47
89	A domain decomposition based method for two-dimensional linear elastic fractures. Engineering Analysis With Boundary Elements, 2016, 66, 34-48.	2.0	20
90	Parameter inversion and deformation mechanism of Sanmendong landslide in the Three Gorges Reservoir region under the combined effect of reservoir water level fluctuation and rainfall. Engineering Geology, 2016, 205, 133-145.	2.9	59

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91	MiR-502/SET8 regulatory circuit in pathobiology of breast cancer. <i>Cancer Letters</i> , 2016, 376, 259-267.	3.2	36
92	A four-node quadrilateral element fitted to numerical manifold method with continuous nodal stress for crack analysis. <i>Computers and Structures</i> , 2016, 177, 69-82.	2.4	64
93	Dual form of discontinuous deformation analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 305, 196-216.	3.4	88
94	A two-dimensional coupled hydro-mechanical finite-discrete model considering porous media flow for simulating hydraulic fracturing. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2016, 88, 115-128.	2.6	86
95	Three-dimensional fracture propagation with numerical manifold method. <i>Engineering Analysis With Boundary Elements</i> , 2016, 72, 65-77.	2.0	200
96	A three-node triangular element fitted to numerical manifold method with continuous nodal stress for crack analysis. <i>Engineering Fracture Mechanics</i> , 2016, 162, 51-75.	2.0	83
97	Huangtupo landslide stability under water level fluctuations of the Three Gorges reservoir. <i>Landslides</i> , 2016, 13, 1167-1179.	2.7	53
98	Sâ€“R decomposition based numerical manifold method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 304, 452-478.	3.4	32
99	Combined Finite-Discrete Element Method for Simulation of Hydraulic Fracturing. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 1389-1410.	2.6	184
100	Two-dimensional numerical manifold method with multilayer covers. <i>Science China Technological Sciences</i> , 2016, 59, 515-530.	2.0	25
101	Urban-rural disparity of overweight/obesity distribution and its potential trend with breast cancer among Chinese women. <i>Oncotarget</i> , 2016, 7, 56608-56618.	0.8	18
102	A functional single nucleotide polymorphism of SET8 is prognostic for breast cancer. <i>Oncotarget</i> , 2016, 7, 34277-34287.	0.8	18
103	Condensed form of complementarity formulation for discontinuous deformation analysis. <i>Science China Technological Sciences</i> , 2015, 58, 1509-1519.	2.0	18
104	Hybrid Analytical and MLS-Based NMM for the Determination of Generalized Stress Intensity Factors. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-9.	0.6	3
105	Construct â€“FE-Meshfreeâ€“™ Quad4 using mean value coordinates. <i>Engineering Analysis With Boundary Elements</i> , 2015, 59, 78-88.	2.0	25
106	Mixed linear complementarity formulation of discontinuous deformation analysis. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2015, 75, 23-32.	2.6	49
107	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.	3.4	137
108	Altered expression and loss of heterozygosity of the migration and invasion inhibitory protein (MIIP) gene in breast cancer. <i>Oncology Reports</i> , 2015, 33, 2771-2778.	1.2	9

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109	Primal mixed solution to unconfined seepage flow in porous media with numerical manifold method. Applied Mathematical Modelling, 2015, 39, 794-808.	2.2	131
110	miR-485-5p Binding Site SNP rs8752 in HPGD Gene Is Associated with Breast Cancer Risk. PLoS ONE, 2014, 9, e102093.	1.1	26
111	New strategies for some issues of numerical manifold method in simulation of crack propagation. International Journal for Numerical Methods in Engineering, 2014, 97, 986-1010.	1.5	234
112	The MLS-based numerical manifold method with applications to crack analysis. International Journal of Fracture, 2014, 190, 147-166.	1.1	103
113	MRT-LBM-based numerical simulation of seepage flow through fractal fracture networks. Science China Technological Sciences, 2013, 56, 3115-3122.	2.0	23
114	Extremum solutions to the limit equilibrium method subjected to physical admissibility. Natural Hazards, 2013, 65, 79-96.	1.6	5
115	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.	1.5	78
116	A three-dimensional rigorous method for stability analysis of landslides. Engineering Geology, 2012, 145-146, 30-40.	2.9	73
117	A global procedure for evaluating stability of three-dimensional slopes. Natural Hazards, 2012, 61, 1083-1098.	1.6	22
118	A nonlinear complementarity approach for elastoplastic problems by BEM without internal cells. Engineering Analysis With Boundary Elements, 2011, 35, 313-318.	2.0	8
119	Cauchy problem of three-dimensional critical slip surfaces of slopes. International Journal for Numerical and Analytical Methods in Geomechanics, 2011, 35, 519-527.	1.7	8
120	DISCONTINUOUS DEFORMATION ANALYSIS BASED ON VARIATIONAL INEQUALITY THEORY. International Journal of Computational Methods, 2011, 08, 193-208.	0.8	26
121	Improved Bell's method for the stability analysis of slopes. International Journal for Numerical and Analytical Methods in Geomechanics, 2009, 33, 1673-1689.	1.7	39
122	A practical procedure for searching critical slip surfaces of slopes based on the strength reduction technique. Computers and Geotechnics, 2009, 36, 1-5.	2.3	128
123	Performance of pentacene-based organic field effect transistors using different polymer gate dielectrics. Optoelectronics Letters, 2009, 5, 409-412.	0.4	0
124	Global analysis on slope stability and its engineering application. Science in China Series D: Earth Sciences, 2009, 52, 507-512.	0.9	8
125	Discontinuous deformation analysis based on complementary theory. Science in China Series D: Earth Sciences, 2009, 52, 2547-2554.	0.9	68
126	Eigenvalue Problem from the Stability Analysis of Slopes. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 647-656.	1.5	31

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127	Fluorogenic and Chromogenic Rhodamine Spirolactam Based Probe for Nitric Oxide by Spiro Ring Opening Reaction. <i>Organic Letters</i> , 2008, 10, 2357-2360.	2.4	138
128	A practical solution for KKT systems. <i>Numerical Algorithms</i> , 2007, 46, 105-119.	1.1	15
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 [<i>Computers and Geotechnics</i> 33 (2006) 188-195]. <i>Computers and Geotechnics</i> , 2007, 34, 126.	2.3	0
130	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.	2.4	357
131	Improved Gauss Seidel based projection contraction algorithm for the mixed complementarity problem in contact problem. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 0, , .	1.7	1