

Yongtao Yang

List of Publications by Year in descending order

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75
papers

2,832
citations

147801

31
h-index

182427

51
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all docs

75
docs citations

75
times ranked

585
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional fracture propagation with numerical manifold method. <i>Engineering Analysis With Boundary Elements</i> , 2016, 72, 65-77.	3.7	200
2	Hydraulic fracturing modeling using the enriched numerical manifold method. <i>Applied Mathematical Modelling</i> , 2018, 53, 462-486.	4.2	173
3	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
4	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
5	A zero-thickness cohesive element-based numerical manifold method for rock mechanical behavior with micro-Voronoi grains. <i>Engineering Analysis With Boundary Elements</i> , 2018, 96, 94-108.	3.7	102
6	Reformulation of dynamic crack propagation using the numerical manifold method. <i>Engineering Analysis With Boundary Elements</i> , 2019, 105, 279-295.	3.7	88
7	A rigorous and unified mass lumping scheme for higher-order elements. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 319, 491-514.	6.6	87
8	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.	4.3	83
9	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.	6.3	82
10	Direct Approach to Treatment of Contact in Numerical Manifold Method. <i>International Journal of Geomechanics</i> , 2017, 17, .	2.7	80
11	Numerical study of soil-rock mixture: Generation of random aggregate structure. <i>Science China Technological Sciences</i> , 2018, 61, 359-369.	4.0	72
12	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.	2.8	67
13	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.	4.4	64
14	Explicit Discontinuous Deformation Analysis Method with Lumped Mass Matrix for Highly Discrete Block System. <i>International Journal of Geomechanics</i> , 2018, 18, .	2.7	63
15	Phreatic line calculation and stability analysis of slopes under the combined effect of reservoir water level fluctuations and rainfall. <i>Canadian Geotechnical Journal</i> , 2017, 54, 631-645.	2.8	59
16	A three-node triangular element with continuous nodal stress. <i>Computers and Structures</i> , 2014, 141, 46-58.	4.4	57
17	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.	6.6	55
18	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.	6.3	50

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19	Modeling unconfined seepage flow in soil-rock mixtures using the numerical manifold method. <i>Engineering Analysis With Boundary Elements</i> , 2019, 108, 60-70.	3.7	50
20	Investigation of rock slope stability using a 3D nonlinear strength-reduction numerical manifold method. <i>Engineering Geology</i> , 2021, 292, 106285.	6.3	49
21	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.	3.3	48
22	Stability analysis of soil-rock-mixture slopes using the numerical manifold method. <i>Engineering Analysis With Boundary Elements</i> , 2019, 109, 153-160.	3.7	48
23	Stability analysis of slopes using the vector sum numerical manifold method. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 345-352.	3.5	48
24	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.	3.3	45
25	A 3D thermal cracking model for rock based on the combined finite-discrete element method. <i>Computational Particle Mechanics</i> , 2020, 7, 881-901.	3.0	41
26	A high-order numerical manifold method with continuous stress/strain field. <i>Applied Mathematical Modelling</i> , 2020, 78, 576-600.	4.2	39
27	A phase field numerical manifold method for crack propagation in quasi-brittle materials. <i>Engineering Fracture Mechanics</i> , 2021, 241, 107427.	4.3	39
28	A new contact potential based three-dimensional discontinuous deformation analysis method. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 127, 104206.	5.8	37
29	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
30	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
31	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
32	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
33	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
34	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
35	An edge-based smoothed numerical manifold method and its application to static, free and forced vibration analyses. <i>Engineering Analysis With Boundary Elements</i> , 2018, 86, 19-30.	3.7	27
36	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

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37	Construct "FE-Meshfree"™ Quad4 using mean value coordinates. Engineering Analysis With Boundary Elements, 2015, 59, 78-88.	3.7	25
38	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
39	A partition-of-unity based "FE-Meshfree"™ triangular element with radial-polynomial basis functions for static and free vibration analysis. Engineering Analysis With Boundary Elements, 2016, 65, 18-38.	3.7	24
40	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
41	Tensile Strength and Fracture Surface Morphology of Granite Under Confined Direct Tension Test. Rock Mechanics and Rock Engineering, 2021, 54, 4755-4769.	5.4	24
42	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
43	A stability analysis of rock slopes using a nonlinear strength reduction numerical manifold method. Computers and Geotechnics, 2021, 129, 103864.	4.7	22
44	Mesoscopic study of concrete with random aggregate model using phase field method. Construction and Building Materials, 2021, 310, 125199.	7.2	22
45	A partition-of-unity based "FE-Meshfree"™ hexahedral element with continuous nodal stress. Computers and Structures, 2017, 178, 17-28.	4.4	21
46	A hybrid "FE-Meshless"™ QUAD4 with continuous nodal stress using radial-polynomial basis functions. Engineering Analysis With Boundary Elements, 2015, 53, 73-85.	3.7	20
47	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
48	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
49	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
50	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
51	Improved numerical manifold method (iNMM)"An extra-DOF free and interpolating NMM with continuous nodal stress. Engineering Analysis With Boundary Elements, 2017, 84, 117-128.	3.7	15
52	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
53	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
54	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

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55	Application of the three-node triangular element with continuous nodal stress for free vibration analysis. <i>Computers and Structures</i> , 2016, 169, 69-80.	4.4	14
56	Smoothed numerical manifold method with physical patch-based smoothing domains for linear elasticity. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 515-547.	2.8	14
57	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.	3.7	13
58	A mass lumping scheme for the second-order numerical manifold method. <i>Computers and Structures</i> , 2019, 213, 23-39.	4.4	13
59	An extended numerical manifold method for unsaturated soil-water interaction analysis at micro-scale. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2021, 45, 1500-1525.	3.3	12
60	Hydro-mechanical multiscale numerical manifold model of the three-dimensional heterogeneous poro-elasticity. <i>Applied Mathematical Modelling</i> , 2022, 110, 779-818.	4.2	12
61	Free and forced vibration analyses using the four-node quadrilateral element with continuous nodal stress. <i>Engineering Analysis With Boundary Elements</i> , 2016, 70, 1-11.	3.7	11
62	A Simplified Solution for Calculating the Phreatic Line and Slope Stability during a Sudden Drawdown of the Reservoir Water Level. <i>Geofluids</i> , 2018, 2018, 1-14.	0.7	11
63	An Enriched Edge-Based Smoothed FEM for Linear Elastic Fracture Problems. <i>International Journal of Computational Methods</i> , 2017, 14, 1750052.	1.3	9
64	Assessing the Stability of Slopes Using Vector-Sum-Based Numerical Manifold Method and Pattern Search Algorithm. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 3659-3673.	5.4	9
65	Unfitted finite element method for fully coupled poroelasticity with stabilization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 397, 115132.	6.6	8
66	Application of the "FE-Meshfree"™ QUAD4 with continuous nodal stress using radial-polynomial basis functions for vibration and geometric nonlinear analyses. <i>Engineering Analysis With Boundary Elements</i> , 2017, 78, 31-48.	3.7	6
67	A four-node tetrahedral element with continuous nodal stress. <i>Computers and Structures</i> , 2017, 191, 180-192.	4.4	6
68	Three dimensional vibration analyses using an eight-node hexahedral element with continuous nodal stress. <i>Computers and Structures</i> , 2019, 212, 58-71.	4.4	5
69	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.	2.8	5
70	A mass lumping scheme for the 10-node tetrahedral element. <i>Engineering Analysis With Boundary Elements</i> , 2019, 106, 190-200.	3.7	4
71	A partition-of-unity based three-node triangular element with continuous nodal stress using radial-polynomial basis functions. <i>Science China Technological Sciences</i> , 2017, 60, 1518-1536.	4.0	3
72	Four-Node Quadrilateral Element with Continuous Nodal Stress for Geometrical Nonlinear Analysis. <i>International Journal of Computational Methods</i> , 2018, 15, 1850005.	1.3	3

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73	Effect of confining pressure on deformation and strength of granite in confined direct tension tests. Bulletin of Engineering Geology and the Environment, 2022, 81, 1.	3.5	3
74	Modelling three dimensional dynamic problems using the four-node tetrahedral element with continuous nodal stress. Science China Technological Sciences, 2018, 61, 1889-1900.	4.0	2
75	Investigating the influence of collision property and fragmentation on rock fall with 3D ETM modelling. Arabian Journal of Geosciences, 2022, 15, 1.	1.3	0