

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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75
all docs

75
docs citations

75
times ranked

585
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.	6.6	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.	6.6	16
3	Effect of confining pressure on deformation and strength of granite in confined direct tension tests. <i>Bulletin of Engineering Geology and the Environment</i> , 2022, 81, 1.	3.5	3
4	Investigating the influence of collision property and fragmentation on rock fall with 3D ETM modelling. <i>Arabian Journal of Geosciences</i> , 2022, 15, 1.	1.3	0
5	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
6	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
7	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
8	A phase field numerical manifold method for crack propagation in quasi-brittle materials. <i>Engineering Fracture Mechanics</i> , 2021, 241, 107427.	4.3	39
9	A stability analysis of rock slopes using a nonlinear strength reduction numerical manifold method. <i>Computers and Geotechnics</i> , 2021, 129, 103864.	4.7	22
10	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
11	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
12	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
13	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
14	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
15	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.	3.7	15
16	Tensile Strength and Fracture Surface Morphology of Granite Under Confined Direct Tension Test. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 4755-4769.	5.4	24
17	Investigation of rock slope stability using a 3D nonlinear strength-reduction numerical manifold method. <i>Engineering Geology</i> , 2021, 292, 106285.	6.3	49
18	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.	6.6	20

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19	Mesoscopic study of concrete with random aggregate model using phase field method. <i>Construction and Building Materials</i> , 2021, 310, 125199.	7.2	22
20	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.	5.8	15
21	A 3D thermal cracking model for rockbased on the combined finiteâ€“discrete element method. <i>Computational Particle Mechanics</i> , 2020, 7, 881-901.	3.0	41
22	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
23	A high-order numerical manifold method with continuous stress/strain field. <i>Applied Mathematical Modelling</i> , 2020, 78, 576-600.	4.2	39
24	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
25	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
26	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.	3.7	15
27	A high-order three dimensional numerical manifold method with continuous stress/strain field. <i>Engineering Analysis With Boundary Elements</i> , 2020, 117, 309-320.	3.7	23
28	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
29	Hydro-mechanical simulation of the saturated and semi-saturated porous soilâ€“rock mixtures using the numerical manifold method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 370, 113238.	6.6	55
30	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
31	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
32	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.	3.7	17
33	Numerical manifold method for dynamic consolidation of saturated porous media with threeâ€“field formulation. <i>International Journal for Numerical Methods in Engineering</i> , 2019, 120, 768-802.	2.8	25
34	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
35	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
36	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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37	A mass lumping scheme for the 10-node tetrahedral element. <i>Engineering Analysis With Boundary Elements</i> , 2019, 106, 190-200.	3.7	4
38	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
39	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
40	Reformulation of dynamic crack propagation using the numerical manifold method. <i>Engineering Analysis With Boundary Elements</i> , 2019, 105, 279-295.	3.7	88
41	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
42	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
43	A mass lumping scheme for the second-order numerical manifold method. <i>Computers and Structures</i> , 2019, 213, 23-39.	4.4	13
44	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
45	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
46	Numerical study of soil-rock mixture: Generation of random aggregate structure. <i>Science China Technological Sciences</i> , 2018, 61, 359-369.	4.0	72
47	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
48	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.	4.0	20
49	Hydraulic fracturing modeling using the enriched numerical manifold method. <i>Applied Mathematical Modelling</i> , 2018, 53, 462-486.	4.2	173
50	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
51	Modelling three dimensional dynamic problems using the four-node tetrahedral element with continuous nodal stress. <i>Science China Technological Sciences</i> , 2018, 61, 1889-1900.	4.0	2
52	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
53	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
54	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

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55	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
56	Application of the "FE-Meshfree"™ QUAD4 with continuous nodal stress using radial-polynomial basis functions for vibration and geometric nonlinear analyses. Engineering Analysis With Boundary Elements, 2017, 78, 31-48.	3.7	6
57	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
58	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.	4.0	36
59	Phreatic line calculation and stability analysis of slopes under the combined effect of reservoir water level fluctuations and rainfall. Canadian Geotechnical Journal, 2017, 54, 631-645.	2.8	59
60	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
61	A four-node tetrahedral element with continuous nodal stress. Computers and Structures, 2017, 191, 180-192.	4.4	6
62	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
63	An Enriched Edge-Based Smoothed FEM for Linear Elastic Fracture Problems. International Journal of Computational Methods, 2017, 14, 1750052.	1.3	9
64	A partition-of-unity based "FE-Meshfree"™ hexahedral element with continuous nodal stress. Computers and Structures, 2017, 178, 17-28.	4.4	21
65	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
66	Direct Approach to Treatment of Contact in Numerical Manifold Method. International Journal of Geomechanics, 2017, 17, .	2.7	80
67	Application of the three-node triangular element with continuous nodal stress for free vibration analysis. Computers and Structures, 2016, 169, 69-80.	4.4	14
68	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
69	Three-dimensional fracture propagation with numerical manifold method. Engineering Analysis With Boundary Elements, 2016, 72, 65-77.	3.7	200
70	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
71	Free and forced vibration analyses using the four-node quadrilateral element with continuous nodal stress. Engineering Analysis With Boundary Elements, 2016, 70, 1-11.	3.7	11
72	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

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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	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
75	A three-node triangular element with continuous nodal stress. Computers and Structures, 2014, 141, 46-58.	4.4	57