

# Xiao Yan

## List of Publications by Year in descending order

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37  
papers

1,488  
citations

361413

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h-index

345221

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37  
all docs

37  
docs citations

37  
times ranked

592  
citing authors

#	ARTICLE	IF	CITATIONS
1	Damage observation and assessment of the Longxi tunnel during the Wenchuan earthquake. <i>Tunnelling and Underground Space Technology</i> , 2016, 54, 102-116.	6.2	204
2	Seismic analysis of a long tunnel based on multi-scale method. <i>Engineering Structures</i> , 2013, 49, 572-587.	5.3	113
3	Analytical solution for longitudinal bending stiffness of shield tunnels. <i>Tunnelling and Underground Space Technology</i> , 2019, 83, 27-34.	6.2	112
4	Analytical solution for longitudinal seismic response of tunnel liners with sharp stiffness transition. <i>Tunnelling and Underground Space Technology</i> , 2018, 77, 103-114.	6.2	107
5	Multi-point shaking table test of a long tunnel subjected to non-uniform seismic loadings. <i>Bulletin of Earthquake Engineering</i> , 2018, 16, 1041-1059.	4.1	101
6	Multi-point shaking table test for long tunnels subjected to non-uniform seismic loadings“ Part I: Theory and validation. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 108, 177-186.	3.8	88
7	Multi-scale physical model of shield tunnels applied in shaking table test. <i>Soil Dynamics and Earthquake Engineering</i> , 2017, 100, 465-479.	3.8	66
8	Analytical Solution for an Infinite Euler-Bernoulli Beam on a Viscoelastic Foundation Subjected to Arbitrary Dynamic Loads. <i>Journal of Engineering Mechanics - ASCE</i> , 2014, 140, 542-551.	2.9	64
9	Shaking table tests on discrepant responses of shaft-tunnel junction in soft soil under transverse excitations. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 120, 345-359.	3.8	61
10	Analytical solution for long lined tunnels subjected to travelling loads. <i>Tunnelling and Underground Space Technology</i> , 2016, 58, 209-215.	6.2	59
11	Analytical solution for a finite Euler“Bernoulli beam with single discontinuity in section under arbitrary dynamic loads. <i>Applied Mathematical Modelling</i> , 2018, 60, 571-580.	4.2	58
12	Multi-point shaking table test design for long tunnels under non-uniform seismic loading. <i>Tunnelling and Underground Space Technology</i> , 2016, 59, 114-126.	6.2	56
13	Shaking table tests of transition tunnel connecting TBM and drill-and-blast tunnels. <i>Tunnelling and Underground Space Technology</i> , 2020, 96, 103197.	6.2	49
14	A multiscale coupling approach between discrete element method and finite difference method for dynamic analysis. <i>International Journal for Numerical Methods in Engineering</i> , 2015, 102, 1-21.	2.8	34
15	Numerical analysis of internal blast effects on underground tunnel in soils. <i>Structure and Infrastructure Engineering</i> , 2016, 12, 1090-1105.	3.7	28
16	1“ Shaking table test of segmental tunnel in sand under near-fault motions. <i>Tunnelling and Underground Space Technology</i> , 2021, 115, 104080.	6.2	27
17	Full 3D seismic analysis of a long-distance water conveyance tunnel. <i>Structure and Infrastructure Engineering</i> , 2014, 10, 128-140.	3.7	26
18	Analytical solution for longitudinal seismic response of long tunnels subjected to Rayleigh waves. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2020, 44, 1371-1385.	3.3	26

#	ARTICLE	IF	CITATIONS
19	Shaking table tests on the intersection of cross passage and twin tunnels. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 124, 136-150.	3.8	25
20	Analytical solution for deep circular tunnels covered by an isolation coating layer subjected to far-field shear stresses. <i>Tunnelling and Underground Space Technology</i> , 2021, 115, 104026.	6.2	23
21	Pseudo-static simplified analytical solution for seismic response of deep tunnels with arbitrary cross-section shapes. <i>Computers and Geotechnics</i> , 2021, 137, 104306.	4.7	18
22	Seismic mitigation for immersion joints: Design and validation. <i>Tunnelling and Underground Space Technology</i> , 2017, 67, 39-51.	6.2	17
23	Cyclic loading behavior of a repaired subway station after fire exposure. <i>Tunnelling and Underground Space Technology</i> , 2019, 84, 210-217.	6.2	17
24	Shaking table tests on shaft-tunnel junction under longitudinal excitations. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 132, 106055.	3.8	16
25	Analytical Solution for Dynamic Response of Underground Rectangular Fluid Tank Subjected to Arbitrary Dynamic Loads. <i>Journal of Engineering Mechanics - ASCE</i> , 2020, 146, .	2.9	15
26	Analytical solution for dynamic responses of the vertical shaft in a shaft-tunnel junction under transverse loads. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 126, 105779.	3.8	14
27	Analytical solutions for seismic responses of shaft-tunnel junction under longitudinal excitations. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 131, 106033.	3.8	13
28	Mode-based equivalent multi-degree-of-freedom system for one-dimensional viscoelastic response analysis of layered soil deposit. <i>Earthquake Engineering and Engineering Vibration</i> , 2018, 17, 103-124.	2.3	10
29	Analytical Solution for Seismic Response of Deep Tunnels with Arbitrary Cross-Section Shape in Saturated Orthotropic Rock. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 5863-5878.	5.4	9
30	Analytical solution for vibrations of a curved tunnel on viscoelastic foundation excited by arbitrary dynamic loads. <i>Tunnelling and Underground Space Technology</i> , 2022, 120, 104307.	6.2	6
31	A stochastic second-order and two-scale thermo-mechanical model for strength prediction of concrete materials. <i>International Journal for Numerical Methods in Engineering</i> , 2016, 108, 885-901.	2.8	5
32	An approach for predicting multi-support seismic underground motions in layered saturated soil under surface water. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 115, 104-118.	3.8	5
33	Analytical Solution for Vibrations of a Modified Timoshenko Beam on Visco-Pasternak Foundation Under Arbitrary Excitations. <i>International Journal of Structural Stability and Dynamics</i> , 2022, 22, .	2.4	5
34	Experimental Study on Vertical Shear Behaviors of an Immersion Joint with Steel Shear Keys. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5056.	2.5	4
35	Analytical Solution for Longitudinal Dynamic Responses of Long Tunnels under Arbitrary Excitations. <i>International Journal of Structural Stability and Dynamics</i> , 2021, 21, .	2.4	4
36	Dynamic responses of long tunnels in layered viscoelastic ground subjected to inclined SH waves. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 141, 106469.	3.8	3

#	ARTICLE	IF	CITATIONS
37	Quasi-Static Test Study on Seismic Behavior of Large-Section Fabricated Utility Tunnel. Shock and Vibration, 2022, 2022, 1-8.	0.6	0