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Three-dimensional centrifuge and numerical modeling of the interaction between perpendicularly crossing tunnels

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#	Paper	IF	Citations
94	Three-dimensional centrifuge modelling of pile group responses to side-by-side twin tunnelling. <i>Tunnelling and Underground Space Technology</i> , 2014 , 43, 350-361	5.7	41
93	Centrifuge modeling of large-diameter underground pipes subjected to heavy traffic loads. <i>Canadian Geotechnical Journal</i> , 2014 , 51, 353-368	3.2	27
92	The state-of-the-art centrifuge modelling of geotechnical problems at HKUST. <i>Journal of Zhejiang University: Science A</i> , 2014 , 15, 1-21	2.1	52
91	Effects of piggyback twin tunnelling on a pile group: 3D centrifuge tests and numerical modelling. <i>Geotechnique</i> , 2015 , 65, 38-51	3.4	41
90	Effects of construction sequence and cover depth on crossing-tunnel interaction. <i>Canadian Geotechnical Journal</i> , 2015 , 52, 851-867	3.2	32
89	Effects of Pillar Depth and Shielding on the Interaction of Crossing Multitunnels. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2015 , 141, 04015021	3.4	22
88	Influence of sand density and retaining wall stiffness on three-dimensional responses of tunnel to basement excavation. <i>Canadian Geotechnical Journal</i> , 2015 , 52, 1811-1829	3.2	48
87	Settlement and load transfer mechanism of pile group due to side-by-side twin tunnelling. <i>Computers and Geotechnics</i> , 2015 , 64, 105-119	4.4	42
86	Effects of twin tunnels construction beneath existing shield-driven twin tunnels. <i>Tunnelling and Underground Space Technology</i> , 2015 , 45, 128-137	5.7	92
85	Three-dimensional numerical parametric study of the influence of basement excavation on existing tunnel. <i>Computers and Geotechnics</i> , 2015 , 63, 146-158	4.4	81
84	Influence of aspect ratio of basement on three-dimensional tunnel responses due to overlying excavation. <i>Japanese Geotechnical Society Special Publication</i> , 2016 , 2, 1583-1588	0.2	
83	Three-dimensional influence zone of new tunnel excavation crossing underneath existing tunnel. <i>Japanese Geotechnical Society Special Publication</i> , 2016 , 2, 1513-1518	0.2	1
82	A comparative study of the different responses of circular and horseshoe-shaped tunnels to an advancing tunnel underneath. <i>Geotechnique Letters</i> , 2016 , 6, 168-175	1.7	12
81	Three-Dimensional Centrifuge Modeling of Ground and Pipeline Response to Tunnel Excavation. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2016 , 142, 04016054	3.4	30
80	Effects of twin-tunnel excavation on an existing horseshoe-shaped tunnel considering the influence of a settlement joint. <i>Canadian Geotechnical Journal</i> , 2017 , 54, 1346-1355	3.2	13
79	Responses of pipeline to side-by-side twin tunnelling at different depths: 3D centrifuge tests and numerical modelling. <i>Tunnelling and Underground Space Technology</i> , 2017 , 66, 157-173	5.7	33
78	Effect of an Existing Tunnel Shape on Crossing Tunnels Interaction. 2017 ,		1

77	Centrifuge modelling of twin-tunnelling induced ground movements in loess strata. <i>Arabian Journal of Geosciences</i> , 2017 , 10, 1	1.8	47
76	A new method for predicting ground settlement caused by twin-tunneling under-crossing an existing tunnel. <i>Environmental Earth Sciences</i> , 2017 , 76, 1	2.9	14
75	Internal deformation monitoring for centrifuge slope model with embedded FBG arrays. <i>Landslides</i> , 2017 , 14, 407-417	6.6	11
74	The effects of existing horseshoe-shaped tunnel sizes on circular crossing tunnel interactions: Three-dimensional numerical analyses. <i>Tunnelling and Underground Space Technology</i> , 2018 , 77, 68-79	5.7	37
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72	Numerische Modellierung der Berfahrung von bestehenden U-Bahntunneln am Beispiel des Transportsiels Wallring. <i>Geotechnik</i> , 2018 , 41, 197-211	0.2	
71	Settlement and Load Transfer Mechanism of Pipeline Due to Twin Stacked Tunneling with Different Construction Sequences. <i>KSCE Journal of Civil Engineering</i> , 2018 , 22, 3810-3817	1.9	9
70	Construction Mechanical Mechanism of Shallow Subway Tunnel Group with Large-Span Variable Cross Section. <i>Geotechnical and Geological Engineering</i> , 2018 , 36, 3879-3891	1.5	3
69	Mechanical responses of existing tunnel due to new tunnelling below without clearance. <i>Tunnelling and Underground Space Technology</i> , 2018 , 80, 44-52	5.7	38
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65	Behaviour of existing tunnel due to new tunnel construction below. <i>Computers and Geotechnics</i> , 2019 , 110, 71-81	4.4	31
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52	Investigation on deformation behavior and failure mechanism of a segmental ring in shield tunnels based on elaborate numerical simulation. <i>Engineering Failure Analysis</i> , 2020 , 117, 104960	3.2	9
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42	Settlement characteristics of large-diameter shield excavation below existing subway in close vicinity. <i>Journal of Central South University</i> , 2021 , 28, 882-897	2.1	27

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- 4 Discontinuous mechanical behaviors of existing shield tunnel with stiffness reduction at longitudinal joints. ○
- 3 Theoretical analysis on the deformation of existing tunnel caused by under-crossing of large-diameter slurry shield considering construction factors. **2023**, 133, 104913 1
- 2 Soil arching evolution caused by shield tunneling in deep saturated ground. **2023**, 40, 100966 ○
- 1 Influence of Tunnel Excavation on the Deformation of a Frame Building. **2023**, 13, 810 ○