

Xiao Hong

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

254
citations

1040056

9
h-index

996975

15
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24
all docs

24
docs citations

24
times ranked

125
citing authors

#	ARTICLE	IF	CITATIONS
1	Interface damage and arching mechanism of CRTS II slab track under temperature load. <i>Construction and Building Materials</i> , 2021, 291, 123258.	7.2	33
2	Initiation and development of rail corrugation based on track vibration in metro systems. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2018, 232, 2228-2243.	2.0	28
3	The fractures of e-type fastening clips used in the subway: Theory and experiment. <i>Engineering Failure Analysis</i> , 2017, 81, 57-68.	4.0	27
4	Analysis of mechanical properties of polyurethane-mixed ballast based on energy method. <i>Construction and Building Materials</i> , 2018, 182, 10-19.	7.2	27
5	Research on ballast breakage under tamping operation based on DEM-MBD coupling approach. <i>Construction and Building Materials</i> , 2021, 272, 121810.	7.2	23
6	Fatigue damage analysis and life prediction of e-clip in railway fasteners based on ABAQUS and FE-SAFE. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401876724.	1.6	20
7	Analysis of the initiation and propagation of fatigue cracks in the CRTS II slab track inter-layer using FE-SAFE and XFEM. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2019, 233, 678-690.	2.0	12
8	Experimental study and discrete element analysis on dynamic mechanical behaviour of railway ballast bed in windblown sand areas. <i>Construction and Building Materials</i> , 2021, 304, 124669.	7.2	11
9	Field test and numerical analysis of Insulated rail joints in heavy-haul railway. <i>Construction and Building Materials</i> , 2021, 298, 123905.	7.2	10
10	Study on the numerical optimization of rail profiles for heavy haul railways. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2017, 231, 649-665.	2.0	9
11	Discrete element modeling of polyurethane-stabilized ballast under monotonic and cyclic triaxial loading. <i>Construction and Building Materials</i> , 2020, 255, 119370.	7.2	9
12	Mechanical behaviour and energy evolution of polyurethane-mixed ballast under revised bonding constitutive model. <i>Construction and Building Materials</i> , 2022, 320, 126260.	7.2	9
13	Experimental study and discrete element analysis on lateral resistance of windblown sand railway. <i>Transportation Geotechnics</i> , 2022, 34, 100740.	4.5	9
14	Mechanical behavior and deformation mechanism of ballast bed with various fouling materials. <i>Journal of Central South University</i> , 2021, 28, 2857-2874.	3.0	7
15	Analysis of ballast breakage in ballast bed when using under sleeper pads. <i>Geomechanics and Geoengineering</i> , 2022, 17, 677-688.	1.8	6
16	The impact of wheel polygonisation to the railway corrugation. <i>Vehicle System Dynamics</i> , 2022, 60, 2636-2657.	3.7	4
17	Analysis on mechanical characteristics of welded joint with a new reinforced device in high-speed railway. <i>Advances in Mechanical Engineering</i> , 2020, 12, 168781402096720.	1.6	3
18	Investigating the effect of different bonding areas on the lateral resistance of polyurethane-mixed ballast using the discrete element method. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2021, 235, 133-142.	2.0	2

#	ARTICLE	IF	CITATIONS
19	Temperature Effect of Concrete Hydration Heat under Atmospheric Wind Based on Fluid-Solid Coupling. KSCE Journal of Civil Engineering, 2022, 26, 1177-1187.	1.9	2
20	Frequency spectrum and fatigue analysis of T-bolt fracture in DT III fastener based on Refined Model. Science Progress, 2020, 103, 36850420950132.	1.9	1
21	Field Investigation and Rapid Deterioration Analysis of Heavy Haul Corrugation. Applied Sciences (Switzerland), 2021, 11, 6317.	2.5	1
22	The influence of construction residual stress and sextuple-line train load on the high-speed railway frame structure. Construction and Building Materials, 2022, 324, 126646.	7.2	1
23	Construction and Thinking of Track Engineering. , 2021, , .		0
24	Field testing and performance optimization of a weld reinforcement device in heavy haul railways'. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 0, , 095440972210910.	2.0	0