

Xiao Hong

List of Publications by Year in descending order

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24
papers

254
citations

1040056

9
h-index

996975

15
g-index

24
all docs

24
docs citations

24
times ranked

125
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of ballast breakage in ballast bed when using under sleeper pads. Geomechanics and Geoengineering, 2022, 17, 677-688.	1.8	6
2	The impact of wheel polygonisation to the railway corrugation. Vehicle System Dynamics, 2022, 60, 2636-2657.	3.7	4
3	Mechanical behaviour and energy evolution of polyurethane-mixed ballast under revised bonding constitutive model. Construction and Building Materials, 2022, 320, 126260.	7.2	9
4	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
5	Experimental study and discrete element analysis on lateral resistance of windblown sand railway. Transportation Geotechnics, 2022, 34, 100740.	4.5	9
6	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
7	Investigating the effect of different bonding areas on the lateral resistance of polyurethane-mixed ballast using the discrete element method. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2021, 235, 133-142.	2.0	2
8	Research on ballast breakage under tamping operation based on DEM-MBD coupling approach. Construction and Building Materials, 2021, 272, 121810.	7.2	23
9	Construction and Thinking of Track Engineering. , 2021, , .		0
10	Interface damage and arching mechanism of CRTS II slab track under temperature load. Construction and Building Materials, 2021, 291, 123258.	7.2	33
11	Field Investigation and Rapid Deterioration Analysis of Heavy Haul Corrugation. Applied Sciences (Switzerland), 2021, 11, 6317.	2.5	1
12	Field test and numerical analysis of Insulated rail joints in heavy-haul railway. Construction and Building Materials, 2021, 298, 123905.	7.2	10
13	Experimental study and discrete element analysis on dynamic mechanical behaviour of railway ballast bed in windblown sand areas. Construction and Building Materials, 2021, 304, 124669.	7.2	11
14	Mechanical behavior and deformation mechanism of ballast bed with various fouling materials. Journal of Central South University, 2021, 28, 2857-2874.	3.0	7
15	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
16	Analysis on mechanical characteristics of welded joint with a new reinforced device in high-speed railway. Advances in Mechanical Engineering, 2020, 12, 168781402096720.	1.6	3
17	Discrete element modeling of polyurethane-stabilized ballast under monotonic and cyclic triaxial loading. Construction and Building Materials, 2020, 255, 119370.	7.2	9
18	Analysis of the initiation and propagation of fatigue cracks in the CRTS II slab track inter-layer using FE-SAFE and XFEM. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2019, 233, 678-690.	2.0	12

#	ARTICLE	IF	CITATIONS
19	Initiation and development of rail corrugation based on track vibration in metro systems. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2018, 232, 2228-2243.	2.0	28
20	Fatigue damage analysis and life prediction of e-clip in railway fasteners based on ABAQUS and FE-SAFE. Advances in Mechanical Engineering, 2018, 10, 168781401876724.	1.6	20
21	Analysis of mechanical properties of polyurethane-mixed ballast based on energy method. Construction and Building Materials, 2018, 182, 10-19.	7.2	27
22	Study on the numerical optimization of rail profiles for heavy haul railways. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2017, 231, 649-665.	2.0	9
23	The fractures of e-type fastening clips used in the subway: Theory and experiment. Engineering Failure Analysis, 2017, 81, 57-68.	4.0	27
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