

Honghua Wu

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

1,430
citations

361296

20
h-index

395590

33
g-index

83
all docs

83
docs citations

83
times ranked

501
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and safety analysis of a 11-Waggon consist for transporting rails. Australian Journal of Mechanical Engineering, 2023, 21, 1474-1488.	1.5	5
2	Freight train air brake models. International Journal of Rail Transportation, 2023, 11, 1-49.	1.8	52
3	Curving resistance from wheel-rail interface. Vehicle System Dynamics, 2022, 60, 1018-1036.	2.2	10
4	Development and computational performance improvement of the wheel-rail coupling for heavy haul locomotive traction studies. Vehicle System Dynamics, 2022, 60, 156-183.	2.2	14
5	Identify severe track geometry defect combinations for maintenance planning. International Journal of Rail Transportation, 2022, 10, 95-113.	1.8	5
6	Dynamic performance of locomotive electric drive system under excitation from gear transmission and wheel-rail interaction. Vehicle System Dynamics, 2022, 60, 1806-1828.	2.2	26
7	Problems, assumptions and solutions in locomotive design, traction and operational studies. Railway Engineering Science, 2022, 30, 265-288.	2.7	21
8	Introduction of Rail Cleaning Effect into Locomotive Traction Study Based on Tribometer Measurements. , 2022, , .		1
9	Track Maintenance Reactions for Combined Track Defects. , 2022, , .		2
10	Adaptive simulation and integration method for wheel-rail contact problems in locomotive traction studies. Vehicle System Dynamics, 2022, 60, 4206-4225.	2.2	2
11	Prediction of rail surface damage in locomotive traction operations using laboratory-field measured and calibrated data. Engineering Failure Analysis, 2022, 135, 106165.	1.8	22
12	Parallel co-simulation of locomotive wheel wear and rolling contact fatigue in a heavy haul train operational environment. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2021, 235, 166-178.	1.3	9
13	Railway track longitudinal force model. Vehicle System Dynamics, 2021, 59, 155-170.	2.2	11
14	Fatigue life prediction for locomotive bogie frames using virtual prototype technique. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2021, 235, 1122-1131.	1.3	8
15	Rail Freight Vehicles. , 2021, , 423-435.		0
16	Implications of Lateral Coupler Forces for Rail Vehicle Curving Resistance. Journal of Computational and Nonlinear Dynamics, 2021, 16, .	0.7	5
17	Experimental prototyping of the adhesion braking control system design concept for a mechatronic bogie. Railway Engineering Science, 2021, 29, 15-29.	2.7	4
18	Estimation of Wheelset Natural Vibration Characteristics Based on Transfer Matrix Method with Various Elastic Beam Models. Shock and Vibration, 2021, 2021, 1-15.	0.3	0

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19	Analysis of positioning of wayside charging stations for hybrid locomotive consists in heavy haul train operations. <i>Railway Engineering Science</i> , 2021, 29, 285-298.	2.7	6
20	Parallel computing in railway research. <i>International Journal of Rail Transportation</i> , 2020, 8, 111-134.	1.8	35
21	Assessing wagon pack sizes in longitudinal train dynamics simulations. <i>Australian Journal of Mechanical Engineering</i> , 2020, 18, 277-287.	1.5	4
22	Parallel computing of wheel-rail contact. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2020, 234, 1109-1116.	1.3	4
23	Research on the compression stability mechanism and its optimisation of coupler with arc surface contact. <i>Vehicle System Dynamics</i> , 2020, 58, 1553-1574.	2.2	8
24	Train braking simulation with wheel-rail adhesion model. <i>Vehicle System Dynamics</i> , 2020, 58, 1226-1241.	2.2	16
25	Dynamic Characteristics of Metro Trains under Rescue Conditions. <i>Shock and Vibration</i> , 2020, 2020, 1-12.	0.3	0
26	Train energy simulation with locomotive adhesion model. <i>Railway Engineering Science</i> , 2020, 28, 75-84.	2.7	16
27	Fatigue life assessment methods for railway vehicle bogie frames. <i>Engineering Failure Analysis</i> , 2020, 116, 104725.	1.8	42
28	Real-time multibody modeling and simulation of a scaled bogie test rig. <i>Railway Engineering Science</i> , 2020, 28, 146-159.	2.7	13
29	Preface to special issue on parallel computing and co-simulation in railway research. <i>International Journal of Rail Transportation</i> , 2020, 8, 109-110.	1.8	0
30	Locomotive Adhesion Control+Rail Friction Field Measurements. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 433-441.	0.3	5
31	Modelling Complex Series Combinations of Draft Gear Springs. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 591-598.	0.3	2
32	Rapid Charging Energy Storage System for a Hybrid Freight Locomotive. , 2020, , .		5
33	Wheel-Rail Interface Condition Estimation via Acoustic Sensors. , 2020, , .		3
34	Simulation of Long Train Dynamics with the Consideration of Wheel-Rail Contact. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 466-473.	0.3	0
35	Innovative Methodology for Heavy Haul Train-Track Interaction Dynamics Issues. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 899-907.	0.3	1
36	Simulation of Track-Locomotive Interactions in the Longitudinal Direction. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 769-774.	0.3	0

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37	A co-simulation approach for heavy haul long distance locomotive-track simulation studies. <i>Vehicle System Dynamics</i> , 2019, 57, 1363-1380.	2.2	30
38	Friction condition characterization for rail vehicle advanced braking system. <i>Mechanical Systems and Signal Processing</i> , 2019, 134, 106324.	4.4	25
39	Friction measurement and creep force modelling methodology for locomotive track damage studies. <i>Wear</i> , 2019, 432-433, 202932.	1.5	15
40	Review of adhesion estimation approaches for rail vehicles. <i>International Journal of Rail Transportation</i> , 2019, 7, 79-102.	1.8	22
41	Traction modelling in train dynamics. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2019, 233, 382-395.	1.3	13
42	Parallel Co-Simulation Method for Railway Vehicle-Track Dynamics. <i>Journal of Computational and Nonlinear Dynamics</i> , 2018, 13, .	0.7	22
43	Feasibility in assessing the dipped rail joint defects through dynamic response of heavy haul locomotive. <i>Journal of Modern Transportation</i> , 2018, 26, 96-106.	2.5	8
44	Methodology to optimize wedge suspensions of three-piece bogies of railway vehicles. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 565-581.	1.5	19
45	Parallel multiobjective optimisations of draft gear designs. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2018, 232, 744-758.	1.3	13
46	Comparison of locomotive energy storage systems for heavy-haul operation. <i>International Journal of Rail Transportation</i> , 2018, 6, 1-15.	1.8	20
47	International benchmarking of longitudinal train dynamics simulators: results. <i>Vehicle System Dynamics</i> , 2018, 56, 343-365.	2.2	50
48	Preload on draft gear in freight trains. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2018, 232, 1615-1624.	1.3	7
49	Practical Modelling and Simulation of Polymer Draft Gear Connections. , 2018, , .		4
50	Heavy Haul Locomotive Traction Performance under the Implications of In-Train Forces. , 2018, , .		0
51	System Dynamics of Distributed-Power Train under Failed Brake Communication. , 2018, , .		0
52	Advanced Co-Simulation Technique for the Study of Heavy Haul Train and Locomotive Dynamics Behavior. , 2018, , .		0
53	Emerging rail vehicle design and simulation in train operational environment. <i>Australian Journal of Mechanical Engineering</i> , 2018, 16, 83-83.	1.5	0
54	Implementation of a wheel-rail temperature model for locomotive traction studies. <i>International Journal of Rail Transportation</i> , 2017, 5, 1-15.	1.8	14

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55	Longitudinal train dynamics. <i>Vehicle System Dynamics</i> , 2017, 55, 449-449.	2.2	8
56	International benchmarking of longitudinal train dynamics simulators: benchmarking questions. <i>Vehicle System Dynamics</i> , 2017, 55, 450-463.	2.2	32
57	Parallel Computing Scheme for Three-Dimensional Long Train System Dynamics. <i>Journal of Computational and Nonlinear Dynamics</i> , 2017, 12, .	0.7	20
58	Railway Air Brake Model and Parallel Computing Scheme. <i>Journal of Computational and Nonlinear Dynamics</i> , 2017, 12, .	0.7	19
59	Modelling, simulation and applications of longitudinal train dynamics. <i>Vehicle System Dynamics</i> , 2017, 55, 1498-1571.	2.2	85
60	An air brake model for longitudinal train dynamics studies. <i>Vehicle System Dynamics</i> , 2017, 55, 517-533.	2.2	55
61	Simulated Comparison of Energy Storage Systems for Heavy Haul Locomotives. , 2017, , .		1
62	Locomotive Studies Utilizing Multibody and Train Dynamics. , 2017, , .		3
63	Rail Cleaning Process and its Influence on Locomotive Performance. , 2017, , .		2
64	Comparisons of draft gear damping mechanisms. <i>Vehicle System Dynamics</i> , 2017, 55, 501-516.	2.2	24
65	Modelling polymer draft gears. <i>Vehicle System Dynamics</i> , 2016, 54, 1208-1225.	2.2	30
66	Applications of particle swarm optimization in the railway domain. <i>International Journal of Rail Transportation</i> , 2016, 4, 167-190.	1.8	48
67	Longitudinal train dynamics: an overview. <i>Vehicle System Dynamics</i> , 2016, 54, 1688-1714.	2.2	134
68	Parallel Computing Enables Whole-Trip Train Dynamics Optimizations. <i>Journal of Computational and Nonlinear Dynamics</i> , 2016, 11, .	0.7	18
69	Computing Schemes for Longitudinal Train Dynamics: Sequential, Parallel and Hybrid. <i>Journal of Computational and Nonlinear Dynamics</i> , 2015, 10, .	0.7	22
70	Advanced dynamic modelling for friction draft gears. <i>Vehicle System Dynamics</i> , 2015, 53, 475-492.	2.2	49
71	Longitudinal dynamics and energy analysis for heavy haul trains. <i>Journal of Modern Transportation</i> , 2014, 22, 127-136.	2.5	46
72	Stabilizing mechanism and running behavior of couplers on heavy haul trains. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2014, 27, 1211-1218.	1.9	6

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73	A review of dynamics modelling of friction draft gear. <i>Vehicle System Dynamics</i> , 2014, 52, 733-758.	2.2	76
74	A review of dynamics modelling of friction wedge suspensions. <i>Vehicle System Dynamics</i> , 2014, 52, 1389-1415.	2.2	34
75	Analysis of the rotation angle of a coupler used on heavy haul locomotives. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2014, 228, 835-844.	1.3	9
76	Methodology for Optimization of Friction Draft Gear Design. , 2014, , .		2
77	Coupler jackknifing and derailments of locomotives on tangent track. <i>Vehicle System Dynamics</i> , 2013, 51, 1784-1800.	2.2	41
78	Coupler rotation behaviour and its effect on heavy haul trains. <i>Vehicle System Dynamics</i> , 2013, 51, 1818-1838.	2.2	34
79	Large DOF Coupler/Draft Gear System Models for Rail Vehicles. <i>Applied Mechanics and Materials</i> , 2012, 197, 381-385.	0.2	1
80	The Curving Behaviour of Heavy-Haul Locomotive Couplers. <i>Applied Mechanics and Materials</i> , 0, 197, 409-414.	0.2	2
81	Characterising stochastic friction in railway draft gear. <i>Vehicle System Dynamics</i> , 0, , 1-13.	2.2	1
82	Hill-starting a heavy haul train with a 24-axle locomotive. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 0, , 095440972110082.	1.3	1
83	Long freight trains & long-term rail surface damage – a systems perspective. <i>Vehicle System Dynamics</i> , 0, , 1-24.	2.2	8