Rolf Dollevoet

List of Publications by Year
in descending order

29 papers	984 citations	361413 20 h-index	580821 25 g-index
29 all docs	29 docs citations	29 times ranked	700 citing authors

#	Article	IF	Citations
1	A Bayesian Network Approach for Condition Monitoring of High-Speed Railway Catenaries. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4037-4051.	8.0	22
2	Influence of Microstructure on Mechanical Properties of Bainitic Steels in Railway Applications. Metals, 2019, 9, 778.	2.3	29
3	Entropy-Based Local Irregularity Detection for High-Speed Railway Catenaries With Frequent Inspections. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3536-3547.	4.7	31
4	Development of a New Downscale Setup for Wheel-Rail Contact Experiments under Impact Loading Conditions. Experimental Techniques, 2018, 42, 1-17.	1.5	24
5	A Condition-Based Maintenance Methodology for Rails in Regional Railway Networks Using Evolutionary Multiobjective Optimization. , 2018, , .		2
6	A decision support approach for condition-based maintenance of rails based on big data analysis. Transportation Research Part C: Emerging Technologies, 2018, 95, 185-206.	7.6	52
7	Analysis of the evolvement of contact wire wear irregularity in railway catenary based on historical data. Vehicle System Dynamics, 2018, 56, 1207-1232.	3.7	27
8	An Integrated Approach for Characterizing the Dynamic Behavior of the Wheel–Rail Interaction at Crossings. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2332-2344.	4.7	11
9	An approach to determine a critical size for rolling contact fatigue initiating from rail surface defects. International Journal of Rail Transportation, 2017, 5, 16-37.	2.7	43
10	Wheel–Rail Impact at Crossings: Relating Dynamic Frictional Contact to Degradation. Journal of Computational and Nonlinear Dynamics, 2017, 12, .	1.2	21
11	Robust and Predictive Fuzzy Key Performance Indicators for Condition-Based Treatment of Squats in Railway Infrastructures. Journal of Infrastructure Systems, 2017, 23, .	1.8	18
12	A Big Data Analysis Approach for Rail Failure Risk Assessment. Risk Analysis, 2017, 37, 1495-1507.	2.7	86
13	Identification of the catenary structure wavelength using pantograph head acceleration measurements. , 2017, , .		6
14	Evaluating Degradation at Railway Crossings Using Axle Box Acceleration Measurements. Sensors, 2017, 17, 2236.	3.8	46
15	New Insights into the Short Pitch Corrugation Enigma Based on 3D-FE Coupled Dynamic Vehicle-Track Modeling of Frictional Rolling Contact. Applied Sciences (Switzerland), 2017, 7, 807.	2.5	40
16	Ensemble EMD-Based Automatic Extraction of the Catenary Structure Wavelength From the Pantograph–Catenary Contact Force. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 2272-2283.	4.7	24
17	Health condition monitoring of insulated joints based on axle box acceleration measurements. Engineering Structures, 2016, 123, 225-235.	5.3	56
18	Modelling of non-steady-state transition from single-point to two-point rolling contact. Tribology International, 2016, 101, 152-163.	5.9	22

#	Article	IF	Citations
19	Robust optimisation of railway crossing geometry. Vehicle System Dynamics, 2016, 54, 617-637.	3.7	11
20	3D FE modelling and validation of frictional contact with partial slip in compression–shift–rolling evolution. International Journal of Rail Transportation, 2016, 4, 20-36.	2.7	28
21	Influence of wheel–rail contact modelling on vehicle dynamic simulation. Vehicle System Dynamics, 2015, 53, 1190-1203.	3.7	26
22	Lagrangian Explicit Finite Element Modeling for Spin-Rolling Contact. Journal of Tribology, 2015, 137, .	1.9	18
23	Parametric study of axle box acceleration at squats. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2015, 229, 841-851.	2.0	28
24	Improvements in Axle Box Acceleration Measurements for the Detection of Light Squats in Railway Infrastructure. IEEE Transactions on Industrial Electronics, 2015, 62, 4385-4397.	7.9	74
25	Dutch research results on wheel/rail interface management: 2001–2013 and beyond. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2014, 228, 642-651.	2.0	20
26	Axle box acceleration for health monitoring of insulated joints: A case study in the Netherlands. , 2014, , .		9
27	Automatic Detection of Squats in Railway Infrastructure. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1980-1990.	8.0	157
28	The vertical and the longitudinal dynamic responses of the vehicle–track system to squat-type short wavelength irregularity. Vehicle System Dynamics, 2013, 51, 1918-1937.	3.7	38
29	Monitoring the railway infrastructure: Detection of surface defects using wavelets. , 2013, , .		15