Petter NÃ¥vik

List of Publications by Year
in descending order

20 papers	360 citations	932766 10 h-index	794141 19 g-index
20 all docs	20 docs citations	20 times ranked	241 citing authors

#	Article	IF	Citations
1	A detailed investigation of uplift and damping of a railway catenary span in traffic using a vision-based line-tracking system. Journal of Sound and Vibration, 2022, 527, 116875.	2.1	12
2	Modeling stiffness of connections and non-structural elements for dynamic response of taller glulam timber frame buildings. Engineering Structures, 2022, 261, 114209.	2.6	17
3	On the use of experimental modal analysis for system identification of a railway pantograph. International Journal of Rail Transportation, 2021, 9, 132-143.	1.8	6
4	Railway catenary tension force monitoring via the analysis of wave propagation in cables. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2021, 235, 494-504.	1.3	5
5	The Effects of Spatially Distributed Damping on the Contact Force in Railway Pantograph-Catenary Interactions. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	5
6	Identification of short-wavelength contact wire irregularities in electrified railway pantographâ€“catenary system. Mechanism and Machine Theory, 2021, 162, 104338.	2.7	23
7	Geometry deviation effects of railway catenaries on pantographâ€“catenary interaction: a case study in Norwegian Railway System. Railway Engineering Science, 2021, 29, 350.	2.7	12
8	Contact point lateral speed effects on contact strip wear in pantograph â€“ catenary interaction for railway operations under 15ÂkV 16.67ÂHz AC systems. Wear, 2021, 486-487, 204103.	1.5	3
9	A heuristic wear model for the contact strip and contact wire in pantograph â€“ Catenary interaction for railway operations under 15ÂkV 16.67ÂHz AC systems. Wear, 2020, 456-457, 203401.	1.5	12
10	Assessment of the High-Frequency Response in Railway Pantograph-Catenary Interaction Based on Numerical Simulation. IEEE Transactions on Vehicular Technology, 2020, 69, 10596-10605.	3.9	28
11	Development of an index for quantification of structural dynamic response in a railway catenary section. Engineering Structures, 2020, 222, 111154.	2.6	9
12	Contact Wire Irregularity Stochastics and Effect on High-speed Railway Pantograph-Catenary Interactions. IEEE Transactions on Instrumentation and Measurement, 2020, , 1-1.	2.4	82
13	Variation in predicting pantographâ€“catenary interaction contact forces, numerical simulations and field measurements. Vehicle System Dynamics, 2017, 55, 1265-1282.	2.2	34
14	Dynamic comparison of a railway catenary section upgrade by field measurement assessments. Procedia Engineering, 2017, 199, 2567-2572.	1.2	1
15	The use of dynamic response to evaluate and improve the optimization of existing soft railway catenary systems for higher speeds. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2016, 230, 1388-1396.	1.3	26
16	A wireless railway catenary structural monitoring system: Full-scale case study. Case Studies in Structural Engineering, 2016, 6, 22-30.	1.6	19
17	Identification of system damping in railway catenary wire systems from full-scale measurements. Engineering Structures, 2016, 113, 71-78.	2.6	39
18	Wireless Monitoring of the Dynamic Behavior of Railway Catenary Systems. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 129-139.	0.3	2

#	Article	IF	Citations
19	Dynamic assessment of existing soft catenary systems using modal analysis to explore higher train velocities: a case study of a Norwegian contact line system. Vehicle System Dynamics, 2015, 53, 756-774.	2.2	22
20	Uplift-Monitoring for Dynamic Assessment of Electrical Railway Contact Lines. Conference Proceedings of the Society for Experimental Mechanics, 2015, , 237-244.	0.3	3