

Petter NÅvik

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

360
citations

933264

10
h-index

794469

19
g-index

20
all docs

20
docs citations

20
times ranked

241
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Identification of system damping in railway catenary wire systems from full-scale measurements. Engineering Structures, 2016, 113, 71-78.	2.6	39
3	Variation in predicting pantographâ€“catenary interaction contact forces, numerical simulations and field measurements. Vehicle System Dynamics, 2017, 55, 1265-1282.	2.2	34
4	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
5	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
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	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
8	A wireless railway catenary structural monitoring system: Full-scale case study. Case Studies in Structural Engineering, 2016, 6, 22-30.	1.6	19
9	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
10	A heuristic wear model for the contact strip and contact wire in pantograph â€“ Catenary interaction for railway operations under 15kV 16.67Hz AC systems. Wear, 2020, 456-457, 203401.	1.5	12
11	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
12	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
13	Development of an index for quantification of structural dynamic response in a railway catenary section. Engineering Structures, 2020, 222, 111154.	2.6	9
14	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
15	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
16	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
17	Uplift-Monitoring for Dynamic Assessment of Electrical Railway Contact Lines. Conference Proceedings of the Society for Experimental Mechanics, 2015, , 237-244.	0.3	3
18	Contact point lateral speed effects on contact strip wear in pantograph â€“ catenary interaction for railway operations under 15kV 16.67Hz AC systems. Wear, 2021, 486-487, 204103.	1.5	3

#	ARTICLE	IF	CITATIONS
19	Wireless Monitoring of the Dynamic Behavior of Railway Catenary Systems. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 129-139.	0.3	2
20	Dynamic comparison of a railway catenary section upgrade by field measurement assessments. Procedia Engineering, 2017, 199, 2567-2572.	1.2	1