

Sebastian Stichel

List of Publications by Year in descending order

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74
papers

1,498
citations

361296
20
h-index

377752
34
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76
all docs

76
docs citations

76
times ranked

736
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved curving performance of an innovative two-axle vehicle: a reasonable feedforward active steering approach. <i>Vehicle System Dynamics</i> , 2022, 60, 516-539.	2.2	10
2	Study on active wheelset steering from the perspective of wheel wear evolution. <i>Vehicle System Dynamics</i> , 2022, 60, 906-929.	2.2	11
3	Vehicle running instability detection algorithm (<i>VRIDA</i>): A signal based onboard diagnostic method for detecting hunting instability of rail vehicles. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2022, 236, 262-274.	1.3	10
4	Rail RCF damage quantification and comparison for different damage models. <i>Railway Engineering Science</i> , 2022, 30, 23-40.	2.7	11
5	FEA of mechanical behaviour of insulated rail joints due to vertical cyclic wheel loadings. <i>Engineering Failure Analysis</i> , 2022, 133, 105966.	1.8	5
6	Problems, assumptions and solutions in locomotive design, traction and operational studies. <i>Railway Engineering Science</i> , 2022, 30, 265-288.	2.7	21
7	Wheel Wear Evolution of Solid-Axle Wheelset with Active Steering. , 2022, , .		0
8	Study of the Dynamic Performance of Pantograph at Speeds Close to the Critical Speed on Soft Catenary System. , 2022, , .		0
9	Prediction of rail surface damage in locomotive traction operations using laboratory-field measured and calibrated data. <i>Engineering Failure Analysis</i> , 2022, 135, 106165.	1.8	22
10	Estimating the marginal maintenance cost of different vehicle types on rail infrastructure. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2021, 235, 1191-1202.	1.3	2
11	Analysing the correlation between vehicle responses and track irregularities using dynamic simulations and measurements. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2020, 234, 170-182.	1.3	20
12	Tolerable longitudinal forces for freight trains in tight S-curves using three-dimensional multi-body simulations. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2020, 234, 454-467.	1.3	8
13	Wheel wear prediction on a high-speed train in China. <i>Vehicle System Dynamics</i> , 2020, 58, 1839-1858.	2.2	17
14	Assessment of running gear performance in relation to rolling contact fatigue of wheels and rails based on stochastic simulations. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2020, 234, 405-416.	1.3	8
15	Long term rail surface damage considering maintenance interventions. <i>Wear</i> , 2020, 460-461, 203462.	1.5	16
16	Active suspension in railway vehicles: a literature survey. <i>Railway Engineering Science</i> , 2020, 28, 3-35.	2.7	63
17	A boundary-condition-transfer method for shell-to-solid submodeling and its application in high-speed trains. <i>International Journal of Mechanical Sciences</i> , 2020, 177, 105542.	3.6	4
18	Gain Scaling for Active Wheelset Steering on Innovative Two-Axle Vehicle. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 57-66.	0.3	2

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19	New Methodology to Estimate Costs Caused by Rail Wear and RCF Depending on the Type of Running Gear. Lecture Notes in Mechanical Engineering, 2020, , 727-734.	0.3	0
20	Modelling of rough wheel-rail contact for physical damage calculations. Wear, 2019, 436-437, 202957.	1.5	2
21	On the railhead material damage of insulated rail joints: Is it by ratchetting or alternating plasticity?. International Journal of Fatigue, 2019, 128, 105197.	2.8	6
22	High-speed trains automatic operation with protection constraints: a resilient nonlinear gain-based feedback control approach. IEEE/CAA Journal of Automatica Sinica, 2019, 6, 992-999.	8.5	30
23	On Aerodynamic Load Transfer to the Flexible Carâ€œBody of a High Speed Train. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900423.	0.2	0
24	Application of tuned-mass system on railway catenary to improve dynamic performance. Engineering Structures, 2018, 165, 349-358.	2.6	9
25	Proposal for systematic studies of active suspension failures in rail vehicles. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2018, 232, 199-213.	1.3	7
26	Correlation of track irregularities and vehicle responses based on measured data. Vehicle System Dynamics, 2018, 56, 967-981.	2.2	37
27	Wheelset curving guidance using H^{∞} control. Vehicle System Dynamics, 2018, 56, 461-484.	2.2	12
28	Wheel life prediction model â€œ an alternative to the FASTSIM algorithm for RCF. Vehicle System Dynamics, 2018, 56, 1051-1071.	2.2	32
29	On integrated wheel and track damage prediction using vehicleâ€œtrack dynamic simulations. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2017, 231, 775-785.	1.3	9
30	Influence of AC system design on the realisation of tractive efforts by high adhesion locomotives. Vehicle System Dynamics, 2017, 55, 1241-1264.	2.2	16
31	Variation in predicting pantographâ€œcatenary interaction contact forces, numerical simulations and field measurements. Vehicle System Dynamics, 2017, 55, 1265-1282.	2.2	34
32	On the implementation of an auxiliary pantograph for speed increase on existing lines. Vehicle System Dynamics, 2016, 54, 1077-1097.	2.2	16
33	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
34	A wireless railway catenary structural monitoring system: Full-scale case study. Case Studies in Structural Engineering, 2016, 6, 22-30.	1.6	19
35	Implications of the operation of multiple pantographs on the soft catenary systems in Sweden. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2016, 230, 971-983.	1.3	16
36	Identification of system damping in railway catenary wire systems from full-scale measurements. Engineering Structures, 2016, 113, 71-78.	2.6	39

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37	On-track tests of active vertical suspension on a passenger train. <i>Vehicle System Dynamics</i> , 2015, 53, 798-811.	2.2	20
38	Dynamics of railway freight vehicles. <i>Vehicle System Dynamics</i> , 2015, 53, 995-1033.	2.2	57
39	Rail vehicle response to lateral carbody excitations imitating crosswind. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2015, 229, 34-47.	1.3	20
40	Prediction of RCF and wear evolution of iron-ore locomotive wheels. <i>Wear</i> , 2015, 338-339, 62-72.	1.5	23
41	CaPaSIM statement of methods. <i>Vehicle System Dynamics</i> , 2015, 53, 341-346.	2.2	17
42	The results of the pantograph-catenary interaction benchmark. <i>Vehicle System Dynamics</i> , 2015, 53, 412-435.	2.2	161
43	Preparation and Execution of On-track Tests with Active Vertical Secondary Suspension. <i>International Journal of Railway Technology</i> , 2015, 4, 29-46.	0.3	7
44	Wheel damage on the Swedish iron ore line investigated via multibody simulation. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2014, 228, 652-662.	1.3	11
45	Bogies towards higher speed on existing tracks. <i>International Journal of Rail Transportation</i> , 2014, 2, 40-49.	1.8	8
46	Influence of switches and crossings on wheel profile evolution in freight vehicles. <i>Vehicle System Dynamics</i> , 2014, 52, 317-337.	2.2	13
47	Finite difference adaptation of the decomposition of layered composite structures on irregular grid. <i>Journal of Composite Materials</i> , 2014, 48, 2427-2439.	1.2	4
48	Substitution of corrugated sheets in a railway vehicle's body structure by a multiple-requirement based selection process. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2014, 228, 143-157.	1.3	11
49	Green Train: concept and technology overview. <i>International Journal of Rail Transportation</i> , 2014, 2, 2-16.	1.8	11
50	Improving crosswind stability of fast rail vehicles using active secondary suspension. <i>Vehicle System Dynamics</i> , 2014, 52, 909-921.	2.2	22
51	Multi-functional design of a composite high-speed train body structure. <i>Structural and Multidisciplinary Optimization</i> , 2014, 50, 475-488.	1.7	19
52	Modelling and Simulation of Freight Wagon with Special attention to the Prediction of Track Damage. <i>International Journal of Railway Technology</i> , 2014, 3, 1-36.	0.3	14
53	Adoption of different pantographs' preloads to improve multiple collection and speed up existing lines. <i>Vehicle System Dynamics</i> , 2012, 50, 403-418.	2.2	27
54	Optimisation of Sandwich Panels for the Load Carrying Structure of High-Speed Rail Vehicles. <i>International Journal of Aerospace and Lightweight Structures (IJALS)</i> , 2012, 02, 19.	0.1	6

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55	Active lateral secondary suspension with \hat{z} control to improve ride comfort: simulations on a full-scale model. <i>Vehicle System Dynamics</i> , 2011, 49, 1409-1422.	2.2	42
56	Industrial implementation of novel procedures for the prediction of railway wheel surface deterioration. <i>Wear</i> , 2011, 271, 203-209.	1.5	7
57	Modelling of suspension components in a rail vehicle dynamics context. <i>Vehicle System Dynamics</i> , 2011, 49, 1021-1072.	2.2	186
58	Orthotropic Models of Corrugated Sheets in Finite Element Analysis. <i>ISRN Mechanical Engineering</i> , 2011, 2011, 1-9.	0.9	18
59	Ride Comfort Improvements in a High-Speed Train with Active Secondary Suspension. <i>Journal of Mechanical Systems for Transportation and Logistics</i> , 2010, 3, 206-215.	0.2	24
60	Dynamics of a High-Speed Rail Vehicle Negotiating Curves at Unsteady Crosswind. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2010, 224, 567-579.	1.3	32
61	Measurements and simulations of rail vehicle dynamics with respect to overturning risk. <i>Vehicle System Dynamics</i> , 2010, 48, 97-112.	2.2	27
62	353620 RIDE COMFORT IMPROVEMENTS IN A HIGH-SPEED TRAIN WITH ACTIVE SECONDARY SUSPENSION(Vehicle,Technical Session). <i>The Proceedings of International Symposium on Seed-up and Service Technology for Railway and Maglev Systems STECH</i> , 2009, 2009, _353620-1_-_353620-7_.	0.0	2
63	Investigation of the risk for rolling contact fatigue on wheels of different passenger trains. <i>Vehicle System Dynamics</i> , 2008, 46, 317-327.	2.2	7
64	New simulation model for freight wagons with UIC link suspension. <i>Vehicle System Dynamics</i> , 2008, 46, 695-704.	2.2	20
65	Vehicle dynamics of a high-speed passenger car due to aerodynamics inside tunnels. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2007, 221, 527-545.	1.3	19
66	Influence of link suspension characteristics variation on two-axle freight wagon dynamics. <i>Vehicle System Dynamics</i> , 2006, 44, 415-423.	2.2	6
67	Experimental and theoretical analysis of freight wagon link suspension. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2006, 220, 361-372.	1.3	9
68	Quasi-static modelling of wheel-rail reactions due to crosswind effects for various types of high-speed rolling stock. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2004, 218, 133-148.	1.3	23
69	Limit Cycle Behaviour and Chaotic Motions of Two-Axle Freight Wagons with Friction Damping. <i>Multibody System Dynamics</i> , 2002, 8, 243-255.	1.7	25
70	How to Improve the Running behaviour of Freight Wagons with UIC-Link Suspension. <i>Vehicle System Dynamics</i> , 1999, 33, 394-405.	2.2	12
71	On freight wagon dynamics and track deterioration. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 1999, 213, 243-254.	1.3	24
72	Fatigue Life Prediction for an S-Train Bogie. <i>Vehicle System Dynamics</i> , 1998, 29, 390-403.	2.2	7

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73	Direct Covariance Analysis for the Calculation of Creepages and Creep-Forces for Various Bogies on Straight Track with Random Irregularities. Vehicle System Dynamics, 1994, 23, 237-251.	2.2	8
74	Long freight trains & long-term rail surface damage – a systems perspective. Vehicle System Dynamics, 0, , 1-24.	2.2	8