Felix Schmid

List of Publications by Year
in descending order

35 papers	**691** citations	759233 **12** h-index	552781 **26** g-index
37 all docs	**37** docs citations	**37** times ranked	**532** citing authors

#	Article	IF	Citations
1	Voltage transient management for Alternating Current trains with vacuum circuit breakers. IET Electrical Systems in Transportation, 2022, 12, 1-14.	2.4	6
2	Carbon-reduction potential of electrification on China's railway transport: An analysis of three possible future scenarios. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2021, 235, 226-235.	2.0	7
3	A knowledge graph-based approach for exploring railway operational accidents. Reliability Engineering and System Safety, 2021, 207, 107352.	8.9	52
4	Understanding railway operational accidents using network theory. Reliability Engineering and System Safety, 2019, 189, 218-231.	8.9	44
5	Development issues for impact safety of rail vehicles: Robustness of crashworthy designs, effect of structural crashworthiness on passenger safety and behaviour characterisation of vehicle materials. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2018, 232, 461-470.	2.0	12
6	Optimised Headway Distance Moving Block with Capacity Analysis. , 2018, , .		5
7	Driving style for better fuel economy. Proceedings of the Institution of Civil Engineers: Transport, 2017, 170, 131-139.	0.6	3
8	Establishing the relationship between railway safety and operational performance. International Journal of Transport Development and Integration, 2017, 2, 98-114.	0.9	0
9	Delay management and energy consumption minimisation on a single-track railway. IET Intelligent Transport Systems, 2016, 10, 50-57.	3.0	12
10	A systems study of influential railway strategy documents. Proceedings of the Institution of Civil Engineers: Transport, 2016, 169, 272-282.	0.6	1
11	A systems approach to developing a new metro for megalopoleis. Proceedings of the Institution of Civil Engineers: Transport, 2016, 169, 249-261.	0.6	1
12	Evaluation of Permanent Magnet Motor energy saving technology for different types of railways. , 2016, , .		8
13	Application of system dynamics tools to model 24-hour metro systems: Integration of system engineering and operation management. , 2016, , .		0
14	Rail vehicle impact analysis: The instable propensity of structural responses and the critical scenarios of structural failure. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2016, 230, 681-696.	2.0	6
15	Analysis of the robustness of terminal turnaround arrangements for railways. IET Intelligent Transport Systems, 2016, 10, 41-49.	3.0	0
16	Standardised approach to energy consumption calculations for high-speed rail. IET Electrical Systems in Transportation, 2016, 6, 179-189.	2.4	7
17	Benchmarking and evaluation of railway operations performance. Journal of Rail Transport Planning and Management, 2015, 5, 274-293.	1.4	15
18	Modeling and Solving Real-Time Train Rescheduling Problems in Railway Bottleneck Sections. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 1896-1904.	8.0	22

#	Article	IF	Citations
19	Rail vehicle impact analysis: A critique of the suitability of the rigid wall model and the assumption of symmetrical behaviour. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2015, 229, 173-185.	2.0	7
20	An assessment of available measures to reduce traction energy use in railway networks. Energy Conversion and Management, 2015, 106, 1149-1165.	9.2	98
21	IEEE International Conference on Intelligent Rail Transportation [Conference Report]. IEEE Intelligent Transportation Systems Magazine, 2014, 6, 74-75.	3.8	0
22	A novel framework for supporting the design of moving block train control system schemes. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2014, 228, 784-793.	2.0	13
23	Managing incidents in a complex system: a railway case study. Cognition, Technology and Work, 2014, 16, 171-185.	3.0	11
24	A Topology-Based Model for Railway Train Control Systems. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 819-827.	8.0	30
25	Feasibility of discontinuous electrification on the Great Western Main Line determined by train simulation. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2013, 227, 296-306.	2.0	11
26	Applying metamodeling techniques in the design and optimization of train wheel detector. Sensor Review, 2012, 32, 327-336.	1.8	3
27	Overcoming barriers to transferring systems engineering practices into the rail sector. Systems Engineering, 2012, 15, 203-212.	2.7	12
28	Tangential force variation due to the bogie direction reversal procedure. Vehicle System Dynamics, 2007, 45, 359-373.	3.7	5
29	Unobserved Component models applied to the assessment of wear in railway points: A case study. European Journal of Operational Research, 2007, 176, 1703-1712.	5.7	41
30	A digital filter-based approach to the remote condition monitoring of railway turnouts. Reliability Engineering and System Safety, 2007, 92, 830-840.	8.9	44
31	RCM2 predictive maintenance of railway systems based on unobserved components models. Reliability Engineering and System Safety, 2004, 83, 103-110.	8.9	41
32	Wear assessment employing remote condition monitoring: a case study. Wear, 2003, 255, 1209-1220.	3.1	33
33	A reliability centered approach to remote condition monitoring. A railway points case study. Reliability Engineering and System Safety, 2003, 80, 33-40.	8.9	114
34	Multisensor Integration Methods in the Development of a Fault-Tolerant Train Navigation System. Journal of Navigation, 2003, 56, 385-398.	1.7	24
35	Special issue on freight: Part 2. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2001, 215, i-vii.	2.0	2