

# Zhigang Liu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8319383/publications.pdf>

Version: 2024-02-01

8  
papers

354  
citations

1307594  
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1588992  
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8  
all docs

8  
docs citations

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times ranked

222  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear analysis of wind-induced vibration of high-speed railway catenary and its influence on pantograph-catenary interaction. <i>Vehicle System Dynamics</i> , 2016, 54, 723-747.	3.7	81
2	Active control of contact force for high-speed railway pantograph-catenary based on multi-body pantograph model. <i>Mechanism and Machine Theory</i> , 2017, 115, 35-59.	4.5	67
3	Nonlinear modelling of high-speed catenary based on analytical expressions of cable and truss elements. <i>Vehicle System Dynamics</i> , 2015, 53, 1455-1479.	3.7	56
4	A methodology to study high-speed pantograph-catenary interaction with realistic contact wire irregularities. <i>Mechanism and Machine Theory</i> , 2020, 152, 103940.	4.5	45
5	Dynamic Performance of High-Speed Railway Overhead Contact Line Interacting With Pantograph Considering Local Dropper Defect. <i>IEEE Transactions on Vehicular Technology</i> , 2020, 69, 5958-5967.	6.3	43
6	Detection of Contact Wire Irregularities Using a Quadratic Time-Frequency Representation of the Pantograph-Catenary Contact Force. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016, 65, 1385-1397.	4.7	42
7	Sliding Mode Control with PD Sliding Surface for High-Speed Railway Pantograph-Catenary Contact Force under Strong Stochastic Wind Field. <i>Shock and Vibration</i> , 2017, 2017, 1-16.	0.6	19
8	A Comparative Study on the Wind Deflection of Railway Overhead Contact Line Based on Empirical Formula and Finite Element Approach. <i>Shock and Vibration</i> , 2021, 2021, 1-9.	0.6	1