

# Jie Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

545  
citations

687363

13  
h-index

713466

21  
g-index

25  
all docs

25  
docs citations

25  
times ranked

184  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative analysis of the effect of different nose lengths on train aerodynamic performance under crosswind. <i>Journal of Fluids and Structures</i> , 2018, 78, 69-85.	3.4	68
2	Effect of increased linings on micro-pressure waves in a high-speed railway tunnel. <i>Tunnelling and Underground Space Technology</i> , 2016, 52, 62-70.	6.2	54
3	Investigation of bogie positions on the aerodynamic drag and near wake structure of a high-speed train. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2019, 185, 41-53.	3.9	49
4	A study of snow accumulating on the bogie and the effects of deflectors on the de-icing performance in the bogie region of a high-speed train. <i>Cold Regions Science and Technology</i> , 2018, 148, 121-130.	3.5	43
5	Wave effects in a realistic tunnel induced by the passage of high-speed trains. <i>Tunnelling and Underground Space Technology</i> , 2019, 86, 224-235.	6.2	39
6	Impact of bogie cavity shapes and operational environment on snow accumulating on the bogies of high-speed trains. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2018, 176, 211-224.	3.9	34
7	Field measurements of the interior and exterior aerodynamic pressure induced by a metro train passing through a tunnel. <i>Sustainable Cities and Society</i> , 2020, 53, 101928.	10.4	34
8	Field study on high-speed train induced fluctuating pressure on a bridge noise barrier. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2018, 177, 157-166.	3.9	30
9	Impact of increased linings on pressure transients induced by a train passing through a tunnel. <i>Sustainable Cities and Society</i> , 2019, 45, 314-323.	10.4	23
10	Detached eddy simulation of flow characteristics around railway embankments and the layout of anemometers. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2019, 193, 103968.	3.9	21
11	Numerical study on the anti-snow performance of deflectors in the bogie region of a high-speed train using the discrete phase model. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2019, 233, 141-159.	2.0	18
12	An LES Investigation of the Near-Wake Flow Topology of a Simplified Heavy Vehicle. <i>Flow, Turbulence and Combustion</i> , 2019, 102, 389-415.	2.6	17
13	Numerical study of snow accumulation on the bogies of a high-speed train using URANS coupled with discrete phase model. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2018, 183, 295-314.	3.9	16
14	Performance of a turbine driven by train-induced wind in a tunnel. <i>Tunnelling and Underground Space Technology</i> , 2018, 82, 416-427.	6.2	16
15	Impact of rotation of wheels and bogie cavity shapes on snow accumulating on the bogies of high-speed trains. <i>Cold Regions Science and Technology</i> , 2019, 159, 58-70.	3.5	15
16	Effect of bogie fairings on the flow behaviours and aerodynamic performance of a high-speed train. <i>Vehicle System Dynamics</i> , 2020, 58, 890-910.	3.7	13
17	Location of anemometer along Lanzhou-Xinjiang railway. <i>Journal of Central South University</i> , 2014, 21, 3698-3704.	3.0	12
18	An improved delayed detached eddy simulation study of the bogie cavity length effects on the aerodynamic performance of a high-speed train. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2020, 234, 2386-2401.	2.1	12

#	ARTICLE	IF	CITATIONS
19	Investigation of the wake flow of a simplified heavy vehicle with different aspect ratios. Physics of Fluids, 2022, 34, .	4.0	12
20	Anti-snow performance of snow shields designed for brake calipers of a high-speed train. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2019, 233, 121-140.	2.0	11
21	A numerical investigation on the improvement of anti-snow performance of the bogies of a high-speed train. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2020, 234, 1319-1334.	2.0	8
22	Experimental Investigation on Mechanical Behavior of Y-shaped Steel and Concrete Composite Joints. , 2008, , .		0
23	Research of Risk Assessment Technology for Long-span Bridge. IABSE Symposium Report, 2010, , .	0.0	0
24	Response to the discussion by C. Baker on "Field study on high-speed train induced fluctuating pressure on a bridge noise barrier" by Xiong et al. (2018). Journal of Wind Engineering and Industrial Aerodynamics, 2019, 185, 55-56.	3.9	0
25	Seismic Performance and Failure Mechanism Study of Double Deck Bridges by Pushover Analysis. IABSE Symposium Report, 2017, , .	0.0	0