

# Zhen-bing Cai

## List of Publications by Year in descending order

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18  
papers

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citations

933447

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839539

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g-index

19  
all docs

19  
docs citations

19  
times ranked

331  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of fretting study on nuclear power equipment. Tribology International, 2020, 144, 106095.	5.9	97
2	Tribological properties of WS <sub>2</sub> /graphene nanocomposites as lubricating oil additives. RSC Advances, 2017, 7, 14060-14068.	3.6	61
3	Impact fretting wear behavior of 304 stainless steel thin-walled tubes under low-velocity. Tribology International, 2017, 105, 219-228.	5.9	38
4	Effect of ultrasonic surface rolling process on impact-sliding wear behavior of the 690 alloy. Tribology International, 2020, 147, 105600.	5.9	35
5	Characterization and lubrication performance of diesel soot nanoparticles as oil lubricant additives. RSC Advances, 2015, 5, 101965-101974.	3.6	31
6	Influence of diameter-thickness ratio on alloy Zr-4 tube under low-energy impact fretting wear. Materials Today Communications, 2016, 8, 79-90.	1.9	27
7	Impact-fretting wear behavior of Inconel 690 alloy tubes effected by pre-compressive stress. Journal of Alloys and Compounds, 2017, 724, 910-920.	5.5	23
8	Combined Effect of Textured Patterns and Graphene Flake Additives on Tribological Behavior under Boundary Lubrication. PLoS ONE, 2016, 11, e0152143.	2.5	21
9	Investigation on the impact wear behavior of 2.25Cr-1Mo steel at elevated temperature. Wear, 2021, 476, 203740.	3.1	14
10	Low-Velocity Impact Wear Behavior of Ball-to-Flat Contact Under Constant Kinetic Energy. Journal of Materials Engineering and Performance, 2017, 26, 5669-5679.	2.5	12
11	Evaluation of temperature-sensitive fatigue crack propagation of a high-speed railway wheel rim material. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 1815-1825.	3.4	10
12	Understanding hydration effects on mechanical and impacting properties of turtle shell. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 78, 116-123.	3.1	9
13	Effects of Temperature on the Fretting Wear Behavior of 2.25Cr-1Mo Tubes against Gr5C12 Rods. Materials, 2020, 13, 3388.	2.9	9
14	Influence of laser shock peening parameters on the abrasive wear behavior of TC4 titanium alloy under controlled cycling impact. Materials Research Express, 2019, 6, 096546.	1.6	5
15	Torsional fretting corrosion behaviours of Ti6Al4V alloys in Hank's simulated body fluid. Corrosion Engineering Science and Technology, 2019, 54, 298-309.	1.4	5
16	Experimental and Numerical Analysis on the Impact Wear Behavior of TP316H Steel. Materials, 2022, 15, 2881.	2.9	2
17	Torsional Fretting Wear Behavior of Duplex DLC Coatings Deposited on Ion Nitriding Treated LZ50 Steel. Journal of Bio- and Tribo-Corrosion, 2015, 1, 1.	2.6	1
18	Tribological behaviour of two kinds of typical hydrogel contact lenses in different lubricants. Biosurface and Biotribology, 2019, 5, 110-117.	1.5	1