

Wenzhong Wang

List of Publications by Year in descending order

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41
papers

1,013
citations

567281

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434195

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all docs

46
docs citations

46
times ranked

624
citing authors

#	ARTICLE	IF	CITATIONS
1	Intermittent failure mechanism and stabilization of microscale electrical contact. <i>Friction</i> , 2023, 11, 538-545.	6.4	2
2	Functionalized graphene-oxide nanosheets with amino groups facilitate macroscale superlubricity. <i>Friction</i> , 2023, 11, 187-200.	6.4	9
3	Investigation on the oil transfer behaviors and the air-oil interfacial flow patterns in a ball bearing under different capillary conditions. <i>Friction</i> , 2023, 11, 228-245.	6.4	14
4	Influence of the cage on the migration and distribution of lubricating oil inside a ball bearing. <i>Friction</i> , 2022, 10, 1035-1045.	6.4	20
5	Oil redistribution and replenishment on stationary bearing inner raceway. <i>Tribology International</i> , 2022, 165, 107315.	5.9	8
6	Evolution and flow maps of the oil layer in successive rolling point contact systems: Bearing as a case. <i>Physics of Fluids</i> , 2022, 34, .	4.0	10
7	10.1063/5.0084464.3. , 2022, , .		0
8	Multilayer Coatings for Tribology: A Mini Review. <i>Nanomaterials</i> , 2022, 12, 1388.	4.1	24
9	Effects of electromagnetic fields on the contact of magneto-electro-elastic materials. <i>International Journal of Mechanical Sciences</i> , 2022, 223, 107283.	6.7	12
10	An Experimental Study on the Distribution and Migration of Lubricating Oil in Rolling Bearings at Low Speeds. <i>Tribology Transactions</i> , 2022, 65, 677-685.	2.0	2
11	Characteristic parameter to predict the lubricant outflow from porous polyimide retainer material. <i>Tribology International</i> , 2022, 173, 107596.	5.9	6
12	Liquid Superlubricity Enabled by the Synergy Effect of Graphene Oxide and Lithium Salts. <i>Materials</i> , 2022, 15, 3546.	2.9	3
13	Nanodiamond plates as macroscale solid lubricant: A "non-layered" two-dimension material. <i>Carbon</i> , 2022, 198, 119-131.	10.3	13
14	Observation of the oil flow in a ball bearing with a novel experiment method and simulation. <i>Tribology International</i> , 2022, 174, 107731.	5.9	10
15	Molecular Dynamics Simulations of Lubricant Recycling in Porous Polyimide Retainers of Bearing. <i>Langmuir</i> , 2021, 37, 2426-2435.	3.5	16
16	Molecular Dynamics Simulations of Lubricant Outflow in Porous Polyimide Retainers of Bearings. <i>Langmuir</i> , 2021, 37, 9162-9169.	3.5	12
17	Patterns of interfacial flow around a lubricated rolling point contact region. <i>Physics of Fluids</i> , 2021, 33, .	4.0	9
18	Slip status in lubricated point-contact based on layered oil slip lubrication model. <i>Tribology International</i> , 2020, 144, 106104.	5.9	4

#	ARTICLE	IF	CITATIONS
19	Nonlinear Dynamic Behavior of Angular Contact Ball Bearings under Microgravity and Gravity. International Journal of Mechanical Sciences, 2020, 183, 105782.	6.7	30
20	The effect of lubricant temperature on dynamic behavior in angular contact ball bearings. Mechanism and Machine Theory, 2020, 149, 103832.	4.5	39
21	Semi-analytic modelling of transversely isotropic magneto-electro-elastic materials under frictional sliding contact. Applied Mathematical Modelling, 2019, 75, 116-140.	4.2	14
22	Effect of the raceway defects on the nonlinear dynamic behavior of rolling bearing. Journal of Mechanical Science and Technology, 2019, 33, 2511-2525.	1.5	19
23	The effect of meso-structure and surface topography on the indentation variability of viscoelastic composite materials. Composite Structures, 2019, 220, 81-92.	5.8	7
24	Layered oil slip model for investigation of film thickness behaviours at high speed conditions. Tribology International, 2019, 131, 137-147.	5.9	17
25	Semi-analytical solution of three-dimensional steady state thermoelastic contact problem of multilayered material under friction heating. International Journal of Thermal Sciences, 2018, 127, 384-399.	4.9	28
26	Semi-analytic solution of three-dimensional temperature distribution in multilayered materials based on explicit frequency response functions. International Journal of Heat and Mass Transfer, 2018, 118, 208-222.	4.8	18
27	Controlled friction behaviors of gradient porous Cu-Zn composites storing ionic liquids under electric field. AIP Advances, 2018, 8, .	1.3	4
28	Solution of temperature distribution under frictional heating with consideration of material inhomogeneity. Tribology International, 2018, 126, 80-96.	5.9	11
29	Modeling of elastic finite-length space rolling-sliding contact problem. Tribology International, 2017, 113, 224-237.	5.9	13
30	Robust microscale superlubricity under high contact pressure enabled by graphene-coated microsphere. Nature Communications, 2017, 8, 14029.	12.8	235
31	Elastohydrodynamic Lubrication Analysis of Finite Line Contact Problem With Consideration of Two Free End Surfaces. Journal of Tribology, 2017, 139, .	1.9	11
32	Experimental study of EHL film thickness behaviour at high speed in ball-on-ring contacts. Tribology International, 2017, 113, 216-223.	5.9	12
33	The Effect of Oil Droplet on the Lubrication Performance. Journal of Tribology, 2016, 138, .	1.9	11
34	Modeling of Finite-Length Line Contact Problem With Consideration of Two Free-End Surfaces. Journal of Tribology, 2016, 138, .	1.9	17
35	Effect of race conformities in angular contact ball bearing. Tribology International, 2016, 104, 109-120.	5.9	17
36	Optical analysis of ball-on-ring mode test rig for oil film thickness measurement. Friction, 2016, 4, 324-334.	6.4	12

#	ARTICLE	IF	CITATIONS
37	Behaviors of a micro oil droplet in an EHL contact. Friction, 2016, 4, 359-368.	6.4	11
38	Temperature rise of double-row tapered roller bearings analyzed with the thermal network method. Tribology International, 2015, 87, 11-22.	5.9	50
39	Investigation of skidding in angular contact ball bearings under high speed. Tribology International, 2015, 92, 404-417.	5.9	99
40	The effect of surface roughness characteristics on the elastic-plastic contact performance. Tribology International, 2014, 79, 59-73.	5.9	40
41	Effects of Differential Scheme and Mesh Density on EHL Film Thickness in Point Contacts. Journal of Tribology, 2006, 128, 641-653.	1.9	124