

# Kun Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

506  
citations

623734

14  
h-index

713466

21  
g-index

33  
all docs

33  
docs citations

33  
times ranked

262  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental investigation of granular friction behaviors during reciprocating sliding. <i>Friction</i> , 2022, 10, 732-747.	6.4	6
2	Transient High Friction Dominated by High Shear Strength Residual Water Film. <i>Tribology Letters</i> , 2022, 70, 1.	2.6	4
3	A solution for mixed elastohydrodynamic lubrication modeling considering effects of solid particles and surface roughness. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2022, 236, 2272-2282.	1.8	3
4	Atomistic Insights Into Anti-Wear Mechanisms and Protective Tribofilm Formation in Polytetrafluoroethylene Composites. <i>Journal of Tribology</i> , 2022, 144, .	1.9	7
5	Transient Evolution of Rheological Properties of Dense Granular Inertial Flow Under Plane Shear. <i>Tribology Letters</i> , 2022, 70, 1.	2.6	4
6	Dead Weight Microtribometer Calibration for Improved Tolerance to Transducer Crosstalk and Cantilever Torsion. <i>Tribology Letters</i> , 2022, 70, 1.	2.6	2
7	Thermomechanical analysis on the frictional contact behavior of a high-strength steel 22MnB5 die steel H13 tribopair at 800°C by experiment and finite-element simulation. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2021, 235, 1958-1973.	1.8	1
8	Femtosecond laser-induced shape memory polymer micropillar with tunable wettability and reversible adhesion for underwater oil droplet lossless transfer. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	20
9	In Situ Tuning Underwater Bubble Movement on Slippery Lubricant-Infused Anisotropic Microgrooved Surface by Unidirectional Mechanical Strain. <i>Langmuir</i> , 2021, 37, 2140-2145.	3.5	11
10	Noncontact All-in-One In Situ Reversible Reconfiguration of Femtosecond Laser-Induced Shape Memory Magnetic Microcones for Multifunctional Liquid Droplet Manipulation and Information Encryption. <i>Advanced Functional Materials</i> , 2021, 31, 2100543.	14.9	51
11	Bioinspired Geometry-Gradient Metal Slippery Surface by One-Step Laser Ablation for Continuous Liquid Directional Self-Transport. <i>Langmuir</i> , 2021, 37, 5436-5444.	3.5	33
12	A Simple Analysis of Texture-Induced Friction Reduction Based on Surface Roughness Ratio. <i>Tribology Letters</i> , 2021, 69, 1.	2.6	3
13	Mechanochemical Effect of Filler Surface Functionality on Fluoropolymer Tribology. <i>Macromolecules</i> , 2021, 54, 6417-6429.	4.8	24
14	Underwater Drag Reduction and Buoyancy Enhancement on Biomimetic Antiabrasive Superhydrophobic Coatings. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 48270-48280.	8.0	40
15	Contactless Mechanical Power Transmission Through the High-Tc Superconducting Pinning Effect. <i>Journal of Superconductivity and Novel Magnetism</i> , 2021, 34, 3131-3140.	1.8	0
16	Mechanochemical functionality of graphene additives in ultralow wear polytetrafluoroethylene composites. <i>Carbon</i> , 2021, 184, 312-321.	10.3	23
17	Lateral and Normal Capillary Force Evolution of a Reciprocating Liquid Bridge. <i>Langmuir</i> , 2021, 37, 11737-11749.	3.5	9
18	The unrecognized importance of roughness directionality to polymer wear. <i>Wear</i> , 2021, 486-487, 204084.	3.1	9

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19	Investigation of hBN powder lubricating characteristics of die steel H13â€“ceramic Si <sub>3</sub> N <sub>4</sub> tribopair at 800â€“f. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2020, 234, 622-631.	1.8	22
20	Paradoxical Filler Size Effect on Composite Wear: Fillerâ€“Matrix Interaction and Its Tribochemical Consequences. Tribology Letters, 2020, 68, 1.	2.6	21
21	Interfacial Gradient and Its Role in Ultralow Wear Sliding. Journal of Physical Chemistry C, 2020, 124, 6188-6196.	3.1	32
22	Influence of surface topography on the friction and dynamic characteristics of spur gears. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2020, 234, 1892-1907.	1.8	5
23	Hybrid Wear-Reducing Micro-pits Counterface Texture Against Polymeric Solid Lubricants. Tribology Letters, 2020, 68, 1.	2.6	10
24	Effect of air supply speed on point contact sliding wear characteristics under oilâ€“air lubrication conditions. Lubrication Science, 2019, 31, 273-284.	2.1	5
25	Self-competing and Coupled Effect of Laser-Engraved Counterface Groove Depth and Density on Wear of Alumina PTFE. Tribology Letters, 2019, 67, 1.	2.6	14
26	The Competing Effects of Counterface Peaks and Valleys on the Wear and Transfer of Ultra-Low Wear Aluminaâ€“PTFE. Tribology Letters, 2018, 66, 1.	2.6	36
27	Characteristics of force chains in frictional interface during abrasive flow machining based on discrete element method. Advances in Manufacturing, 2018, 6, 355-375.	6.1	16
28	Measuring Evolution of Transfer Filmâ€“Substrate Interface Using Low Wear Alumina PTFE. Tribology Letters, 2018, 66, 1.	2.6	27
29	A fast method for moving object detection in video surveillance image. Signal, Image and Video Processing, 2017, 11, 841-848.	2.7	19
30	Low Wear Steel Counterface Texture Design: A Case Study Using Micro-pits Texture and Aluminaâ€“PTFE Nanocomposite. Tribology Letters, 2017, 65, 1.	2.6	22
31	Effects of Sliding Velocity and Normal Load on Tribological Characteristics in Powder Lubrication. Tribology Letters, 2011, 43, 213-219.	2.6	23
32	Role of capillary adhesion in the friction peak during the tacky transition. Friction, 0, , 1.	6.4	4