

Kun Liu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Noncontact All-in-One 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
2	Underwater Drag Reduction and Buoyancy Enhancement on Biomimetic Antiabrasive Superhydrophobic Coatings. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 48270-48280.	8.0	40
3	The Competing Effects of Counterface Peaks and Valleys on the Wear and Transfer of Ultra-Low Wear Alumina-PTFE. <i>Tribology Letters</i> , 2018, 66, 1.	2.6	36
4	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
5	Interfacial Gradient and Its Role in Ultralow Wear Sliding. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6188-6196.	3.1	32
6	Measuring Evolution of Transfer Film-Substrate Interface Using Low Wear Alumina PTFE. <i>Tribology Letters</i> , 2018, 66, 1.	2.6	27
7	Mechanochemical Effect of Filler Surface Functionality on Fluoropolymer Tribology. <i>Macromolecules</i> , 2021, 54, 6417-6429.	4.8	24
8	Effects of Sliding Velocity and Normal Load on Tribological Characteristics in Powder Lubrication. <i>Tribology Letters</i> , 2011, 43, 213-219.	2.6	23
9	Mechanochemical functionality of graphene additives in ultralow wear polytetrafluoroethylene composites. <i>Carbon</i> , 2021, 184, 312-321.	10.3	23
10	Low Wear Steel Counterface Texture Design: A Case Study Using Micro-pits Texture and Alumina-PTFE Nanocomposite. <i>Tribology Letters</i> , 2017, 65, 1.	2.6	22
11	Investigation of hBN powder lubricating characteristics of die steel H13-ceramic Si ₃ N ₄ tribopair at 800 °C. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2020, 234, 622-631.	1.8	22
12	Paradoxical Filler Size Effect on Composite Wear: Filler-Matrix Interaction and Its Tribochemical Consequences. <i>Tribology Letters</i> , 2020, 68, 1.	2.6	21
13	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
14	A fast method for moving object detection in video surveillance image. <i>Signal, Image and Video Processing</i> , 2017, 11, 841-848.	2.7	19
15	Characteristics of force chains in frictional interface during abrasive flow machining based on discrete element method. <i>Advances in Manufacturing</i> , 2018, 6, 355-375.	6.1	16
16	Self-competing and Coupled Effect of Laser-Engraved Counterface Groove Depth and Density on Wear of Alumina PTFE. <i>Tribology Letters</i> , 2019, 67, 1.	2.6	14
17	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
18	Hybrid Wear-Reducing Micro-pits Counterface Texture Against Polymeric Solid Lubricants. <i>Tribology Letters</i> , 2020, 68, 1.	2.6	10

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19	Lateral and Normal Capillary Force Evolution of a Reciprocating Liquid Bridge. <i>Langmuir</i> , 2021, 37, 11737-11749.	3.5	9
20	The unrecognized importance of roughness directionality to polymer wear. <i>Wear</i> , 2021, 486-487, 204084.	3.1	9
21	Atomistic Insights Into Anti-Wear Mechanisms and Protective Tribofilm Formation in Polytetrafluoroethylene Composites. <i>Journal of Tribology</i> , 2022, 144, .	1.9	7
22	Experimental investigation of granular friction behaviors during reciprocating sliding. <i>Friction</i> , 2022, 10, 732-747.	6.4	6
23	Effect of air supply speed on point contact sliding wear characteristics under oil-air lubrication conditions. <i>Lubrication Science</i> , 2019, 31, 273-284.	2.1	5
24	Influence of surface topography on the friction and dynamic characteristics of spur gears. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2020, 234, 1892-1907.	1.8	5
25	Role of capillary adhesion in the friction peak during the tacky transition. <i>Friction</i> , 0, , 1.	6.4	4
26	Transient High Friction Dominated by High Shear Strength Residual Water Film. <i>Tribology Letters</i> , 2022, 70, 1.	2.6	4
27	Transient Evolution of Rheological Properties of Dense Granular Inertial Flow Under Plane Shear. <i>Tribology Letters</i> , 2022, 70, 1.	2.6	4
28	A Simple Analysis of Texture-Induced Friction Reduction Based on Surface Roughness Ratio. <i>Tribology Letters</i> , 2021, 69, 1.	2.6	3
29	A solution for mixed elasto-hydrodynamic 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
30	Dead Weight Microtribometer Calibration for Improved Tolerance to Transducer Crosstalk and Cantilever Torsion. <i>Tribology Letters</i> , 2022, 70, 1.	2.6	2
31	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
32	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