

Jinjin Li

List of Publications by Year in descending order

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papers

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citations

94269

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96
all docs

96
docs citations

96
times ranked

1375
citing authors

#	ARTICLE	IF	CITATIONS
1	Superlubricity Behavior with Phosphoric Acidâ€“Water Network Induced by Rubbing. Langmuir, 2011, 27, 9413-9417.	1.6	173
2	Superlubricity of carbon nanostructures. Carbon, 2020, 158, 1-23.	5.4	163
3	Macroscale Superlubricity Enabled by the Synergy Effect of Graphene-Oxide Nanoflakes and Ethanediol. ACS Applied Materials & Interfaces, 2018, 10, 40863-40870.	4.0	131
4	Superlubricity Achieved with Mixtures of Acids and Glycerol. Langmuir, 2013, 29, 271-275.	1.6	126
5	Superlubricity of Graphite Induced by Multiple Transferred Graphene Nanoflakes. Advanced Science, 2018, 5, 1700616.	5.6	99
6	Superlubricity Achieved with Mixtures of Polyhydroxy Alcohols and Acids. Langmuir, 2013, 29, 5239-5245.	1.6	92
7	Macroscale superlubricity under extreme pressure enabled by the combination of graphene-oxide nanosheets with ionic liquid. Carbon, 2019, 151, 76-83.	5.4	86
8	Superlubricity of Graphite Sliding against Graphene Nanoflake under Ultrahigh Contact Pressure. Advanced Science, 2018, 5, 1800810.	5.6	85
9	Graphene lubrication. Applied Materials Today, 2020, 20, 100662.	2.3	84
10	Tribochemistry and Superlubricity Induced by Hydrogen Ions. Langmuir, 2012, 28, 15816-15823.	1.6	83
11	Superlubricity and Antiwear Properties of In Situ-Formed Ionic Liquids at Ceramic Interfaces Induced by Tribochemical Reactions. ACS Applied Materials & Interfaces, 2019, 11, 6568-6574.	4.0	76
12	Excellent Lubricating Behavior of Brasenia schreberi Mucilage. Langmuir, 2012, 28, 7797-7802.	1.6	74
13	Enhancement of friction performance enabled by a synergetic effect between graphene oxide and molybdenum disulfide. Carbon, 2019, 154, 266-276.	5.4	64
14	In-situ formation of tribofilm with Ti3C2Tx MXene nanoflakes triggers macroscale superlubricity. Tribology International, 2021, 154, 106695.	3.0	64
15	Investigation of the difference in liquid superlubricity between water- and oil-based lubricants. RSC Advances, 2015, 5, 63827-63833.	1.7	62
16	Superlubricity of Polyalkylene Glycol Aqueous Solutions Enabled by Ultrathin Layered Double Hydroxide Nanosheets. ACS Applied Materials & Interfaces, 2019, 11, 20249-20256.	4.0	62
17	Liquid Superlubricity of Polyethylene Glycol Aqueous Solution Achieved with Boric Acid Additive. Langmuir, 2018, 34, 3578-3587.	1.6	59
18	Hydrodynamic effect on the superlubricity of phosphoric acid between ceramic and sapphire. Friction, 2014, 2, 173-181.	3.4	58

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19	AFM Studies on Liquid Superlubricity between Silica Surfaces Achieved with Surfactant Micelles. <i>Langmuir</i> , 2016, 32, 5593-5599.	1.6	55
20	Contribution of a Tribo-Induced Silica Layer to Macroscale Superlubricity of Hydrated Ions. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20270-20277.	1.5	55
21	Advancements in superlubricity. <i>Science China Technological Sciences</i> , 2013, 56, 2877-2887.	2.0	54
22	Superlubricity of silicone oil achieved between two surfaces by running-in with acid solution. <i>RSC Advances</i> , 2015, 5, 30861-30868.	1.7	53
23	Investigation of machining Ti-6Al-4V with graphene oxide nanofluids: Tool wear, cutting forces and cutting vibration. <i>Journal of Manufacturing Processes</i> , 2020, 49, 35-49.	2.8	52
24	Macroscale Superlubricity Achieved on the Hydrophobic Graphene Coating with Glycerol. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18859-18869.	4.0	51
25	Electricity generation from the interaction of liquid–solid interface: a review. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8870-8895.	5.2	50
26	Investigation of running-in process in water-based lubrication aimed at achieving super-low friction. <i>Tribology International</i> , 2016, 102, 257-264.	3.0	49
27	Molecular behaviors in thin film lubrication—Part three: Superlubricity attained by polar and nonpolar molecules. <i>Friction</i> , 2019, 7, 625-636.	3.4	49
28	Macroscale superlubricity of Si-doped diamond-like carbon film enabled by graphene oxide as additives. <i>Carbon</i> , 2021, 176, 358-366.	5.4	48
29	Superlubricity of 1-Ethyl-3-methylimidazolium trifluoromethanesulfonate Ionic Liquid Induced by Tribochemical Reactions. <i>Langmuir</i> , 2018, 34, 5245-5252.	1.6	47
30	Origins of Superlubricity Promoted by Hydrated Multivalent Ions. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 184-190.	2.1	47
31	Tribochemical Behaviors of Onion-like Carbon Films as High-Performance Solid Lubricants with Variable Interfacial Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25535-25546.	4.0	46
32	Macroscale Superlubricity Achieved With Various Liquid Molecules: A Review. <i>Frontiers in Mechanical Engineering</i> , 2019, 5, .	0.8	46
33	Mechanism of Biological Liquid Superlubricity of <i>Brasenia schreberi</i> Mucilage. <i>Langmuir</i> , 2014, 30, 3811-3816.	1.6	45
34	Random occurrence of macroscale superlubricity of graphite enabled by tribo-transfer of multilayer graphene nanoflakes. <i>Carbon</i> , 2018, 138, 154-160.	5.4	45
35	Fluorinated Graphene: A Promising Macroscale Solid Lubricant under Various Environments. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40470-40480.	4.0	42
36	Investigations of the superlubricity of sapphire against ruby under phosphoric acid lubrication. <i>Friction</i> , 2014, 2, 164-172.	3.4	40

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37	Zwitterionic Hydrogel Incorporated Graphene Oxide Nanosheets with Improved Strength and Lubricity. <i>Langmuir</i> , 2019, 35, 11452-11462.	1.6	40
38	Hexadecane-containing sandwich structure based triboelectric nanogenerator with remarkable performance enhancement. <i>Nano Energy</i> , 2021, 87, 106198.	8.2	40
39	Superlubrication obtained with mixtures of hydrated ions and polyethylene glycol solutions in the mixed and hydrodynamic lubrication regimes. <i>Journal of Colloid and Interface Science</i> , 2020, 579, 479-488.	5.0	39
40	Investigation of Superlubricity Achieved by Polyalkylene Glycol Aqueous Solutions. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600531.	1.9	37
41	Molecular Origin of Superlubricity between Graphene and a Highly Hydrophobic Surface in Water. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2978-2984.	2.1	37
42	Origin of hydration lubrication of zwitterions on graphene. <i>Nanoscale</i> , 2018, 10, 16887-16894.	2.8	36
43	Tribo-Induced Interfacial Material Transfer of an Atomic Force Microscopy Probe Assisting Superlubricity in a WS ₂ /Graphene Heterojunction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4031-4040.	4.0	35
44	Tribological behavior of layered double hydroxides with various chemical compositions and morphologies as grease additives. <i>Friction</i> , 2021, 9, 952-962.	3.4	35
45	Investigations on the mechanism of superlubricity achieved with phosphoric acid solution by direct observation. <i>Journal of Applied Physics</i> , 2013, 114, 114901.	1.1	34
46	Synthesis and characterizations of zwitterionic copolymer hydrogels with excellent lubrication behavior. <i>Tribology International</i> , 2020, 143, 106026.	3.0	33
47	Shear-Induced Interfacial Structural Conversion Triggers Macroscale Superlubricity: From Black Phosphorus Nanoflakes to Phosphorus Oxide. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 31947-31956.	4.0	33
48	New achievements in superlubricity from international workshop on superlubricity: fundamental and applications. <i>Friction</i> , 2015, 3, 344-351.	3.4	32
49	Enhancement of friction performance of fluorinated graphene and molybdenum disulfide coating by microdimple arrays. <i>Carbon</i> , 2020, 167, 122-131.	5.4	32
50	Analysis of Measurement Inaccuracy in Superlubricity Tests. <i>Tribology Transactions</i> , 2013, 56, 141-147.	1.1	30
51	Macroscale superlubricity achieved between zwitterionic copolymer hydrogel and sapphire in water. <i>Materials and Design</i> , 2020, 188, 108441.	3.3	30
52	Reduction of friction stress of ethylene glycol by attached hydrogen ions. <i>Scientific Reports</i> , 2014, 4, 7226.	1.6	23
53	AFM Study on Superlubricity between Ti6Al4V/Polymer Surfaces Achieved with Liposomes. <i>Biomacromolecules</i> , 2019, 20, 1522-1529.	2.6	23
54	Graphene-induced reconstruction of the sliding interface assisting the improved lubricity of various tribo-couples. <i>Materials and Design</i> , 2020, 191, 108661.	3.3	23

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55	Mechanism of Superlubricity Conversion with Polyalkylene Glycol Aqueous Solutions. <i>Langmuir</i> , 2019, 35, 11784-11790.	1.6	22
56	The role of water lubrication in critical state fault slip. <i>Engineering Geology</i> , 2020, 271, 105606.	2.9	20
57	Superlubricity Achieved with Zwitterionic Brushes in Diverse Conditions Induced by Shear Actions. <i>Macromolecules</i> , 2021, 54, 5719-5727.	2.2	20
58	Superlubricity of Si ₃ N ₄ sliding against SiO ₂ under linear contact conditions in phosphoric acid solutions. <i>Science China Technological Sciences</i> , 2013, 56, 1678-1684.	2.0	19
59	Graphene Nanoflakes: Superlubricity of Graphite Induced by Multiple Transferred Graphene Nanoflakes (<i>Adv. Sci.</i> 3/2018). <i>Advanced Science</i> , 2018, 5, 1870018.	5.6	19
60	Nonlinear Frictional Energy Dissipation between Silica-Adsorbed Surfactant Micelles. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2258-2262.	2.1	18
61	Investigation of the lubrication properties and synergistic interaction of biocompatible liposome-polymer complexes applicable to artificial joints. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 178, 469-478.	2.5	18
62	Microscale superlubricity at multiple gold-graphite heterointerfaces under ambient conditions. <i>Carbon</i> , 2020, 161, 827-833.	5.4	18
63	Two-dimensional molybdenum carbide (MXene) as an efficient nanoadditive for achieving superlubricity under ultrahigh pressure. <i>Friction</i> , 2023, 11, 369-382.	3.4	18
64	Superlow Friction of Graphite Induced by the Self-Assembly of Sodium Dodecyl Sulfate Molecular Layers. <i>Langmuir</i> , 2017, 33, 12596-12601.	1.6	17
65	Water-based superlubricity in vacuum. <i>Friction</i> , 2019, 7, 192-198.	3.4	17
66	Fabrication of a graphene layer probe to measure force interactions in layered heterojunctions. <i>Nanoscale</i> , 2020, 12, 5435-5443.	2.8	17
67	Temporary or permanent liquid superlubricity failure depending on shear-induced evolution of surface topography. <i>Tribology International</i> , 2021, 161, 107076.	3.0	17
68	Fluorination to enhance superlubricity performance between self-assembled monolayer and graphite in water. <i>Journal of Colloid and Interface Science</i> , 2021, 596, 44-53.	5.0	15
69	Liquid-based nanogenerator fabricated by a self-assembled fluoroalkyl monolayer with high charge density for energy harvesting. <i>Matter</i> , 2022, 5, 1466-1480.	5.0	15
70	Alkyl-functionalized black phosphorus nanosheets triggers macroscale superlubricity on diamond-like carbon film. <i>Chemical Engineering Journal</i> , 2022, 449, 137764.	6.6	15
71	Electricity generation by sliding an ionic solution droplet on a self-assembled reduced graphene oxide film. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12735-12743.	5.2	14
72	Quantum dots of graphene oxide as nano-additives trigger macroscale superlubricity with an extremely short running-in period. <i>Materials Today Nano</i> , 2022, 18, 100219.	2.3	14

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73	Speed dependence of liquid superlubricity stability with H ₃ PO ₄ solution. RSC Advances, 2017, 7, 49337-49343.	1.7	13
74	Investigation on the Nanomechanics of Liposome Adsorption on Titanium Alloys: Temperature and Loading Effects. Polymers, 2018, 10, 383.	2.0	13
75	Boundary Slip of Oil Molecules at MoS ₂ Homojunctions Governing Superlubricity. ACS Applied Materials & Interfaces, 2022, 14, 8644-8653.	4.0	13
76	Effect of Immersion Duration on Shear Behavior of Granite Fractures. Rock Mechanics and Rock Engineering, 2021, 54, 4809-4823.	2.6	12
77	Gradual degeneration of liquid superlubricity: Transition from superlubricity to ordinary lubrication, and lubrication failure. Tribology International, 2019, 130, 352-358.	3.0	11
78	Potential-Dependent Friction on a Graphitic Surface in Ionic Solution. Journal of Physical Chemistry C, 2020, 124, 23745-23751.	1.5	11
79	Effect of pH on the liquid superlubricity between Si ₃ N ₄ and glass achieved with phosphoric acid. RSC Advances, 2014, 4, 45735-45741.	1.7	10
80	Cationic Surfactant Micelles Lubricate Graphitic Surface in Water. Langmuir, 2019, 35, 11108-11113.	1.6	10
81	Cylindrical bearing inspired oil enhanced rolling friction based nanogenerator. Nano Energy, 2022, 99, 107372.	8.2	10
82	Functionalized graphene-oxide nanosheets with amino groups facilitate macroscale superlubricity. Friction, 2023, 11, 187-200.	3.4	9
83	Improvement of Load Bearing Capacity of Nanoscale Superlow Friction by Synthesized Fluorinated Surfactant Micelles. ACS Applied Nano Materials, 2018, 1, 953-959.	2.4	8
84	Normal and Frictional Force Hysteresis between Self-Assembled Fluorosurfactant Micelle Arrays at the Nanoscale. Advanced Materials Interfaces, 2018, 5, 1700802.	1.9	7
85	Insight into the Lubrication Behavior of Phospholipids Pre-adsorbed on Silica Surfaces at Different Adsorption Temperatures. Langmuir, 2020, 36, 13477-13484.	1.6	6
86	Synergy of phospholipid and hyaluronan based super-lubricated hydrogels. Applied Materials Today, 2022, 27, 101499.	2.3	5
87	Extremely low friction on gold surface with surfactant molecules induced by surface potential. Friction, 2023, 11, 513-523.	3.4	3
88	Relationship between the size of SiO ₂ nanospheres and the structure colour. Micro and Nano Letters, 2011, 6, 527.	0.6	2
89	Self-Retraction of Surfactant Droplets on a Superhydrophilic Surface. Langmuir, 2018, 34, 15388-15395.	1.6	2
90	Friction Process of Superlubricity. , 2012, , .		1

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91	Liquid superlubricity with 2D material additives. , 2021, , 167-187.		1
92	Superlubricity of water-based lubricants. , 2021, , 333-357.		1
93	Relationship between the size of SiO ₂ nano spheres and the structure color. , 2011, , .		0
94	Superlubricity Mechanism of Brasenia Schreberi Mucilage. , 2012, , .		0