

Jianbin Luo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

379
papers

8,934
citations

45
h-index

73
g-index

394
ext. papers

11,309
ext. citations

5.4
avg, IF

6.85
L-index

#	Paper	IF	Citations
379	The relationship between surface structure and super-lubrication performance based on 2D MOFs. <i>Applied Materials Today</i> , 2022 , 26, 101382	6.6	0
378	A smart healable anticorrosion coating with enhanced loading of benzotriazole enabled by ultra-highly exfoliated graphene and mussel-inspired chemistry. <i>Carbon</i> , 2022 , 187, 439-450	10.4	1
377	Wear in-situ self-healing polymer composites incorporated with bifunctional microcapsules. <i>Composites Part B: Engineering</i> , 2022 , 232, 109566	10	5
376	Coupling effect of boundary tribofilm and hydrodynamic film. <i>Cell Reports Physical Science</i> , 2022 , 3, 100768	7.8	3
375	High-quality ultra-flat reduced graphene oxide nanosheets with super-robust lubrication performances. <i>Chemical Engineering Journal</i> , 2022 , 438, 135620	14.7	1
374	Coupled Optimization of Groove Texture for Parallel Ring-Ring Friction Pairs: Theory and Experiments. <i>Tribology Letters</i> , 2022 , 70, 1	2.8	0
373	Visualizing ultrafast defect-controlled interlayer electron-phonon coupling in van der Waals heterostructures.. <i>Advanced Materials</i> , 2022 , e2106955	24	1
372	Superlubricity under ultrahigh contact pressure enabled by partially oxidized black phosphorus nanosheets. <i>Npj 2D Materials and Applications</i> , 2021 , 5,	8.8	12
371	The transients in the evaporation of sessile liquid droplets and the applicability of the steady-state approximation. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 169, 120946	4.9	0
370	In situ synthesis of Mn ₃ O ₄ /graphene nanocomposite and its application as a lubrication additive at high temperatures. <i>Applied Surface Science</i> , 2021 , 546, 149019	6.7	10
369	Macroscale superlubricity of Si-doped diamond-like carbon film enabled by graphene oxide as additives. <i>Carbon</i> , 2021 , 176, 358-366	10.4	11
368	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	9.5	4
367	Modified graphene as novel lubricating additive with high dispersion stability in oil. <i>Friction</i> , 2021 , 9, 143-154	5.6	18
366	Tribological behavior of layered double hydroxides with various chemical compositions and morphologies as grease additives. <i>Friction</i> , 2021 , 9, 952-962	5.6	8
365	An investigation on the tribological behaviors of steel/copper and steel/steel friction pairs via lubrication with a graphene additive. <i>Friction</i> , 2021 , 9, 228-238	5.6	14
364	Micro/atomic-scale vibration induced superlubricity. <i>Friction</i> , 2021 , 9, 1163-1174	5.6	5
363	Vibration-induced superlubricity 2021 , 53-70		

362	Toward micro- and nanoscale robust superlubricity by 2D materials 2021 , 131-144		0
361	Energy dissipation through phonon and electron behaviors of superlubricity in 2D materials 2021 , 145-166		
360	Liquid superlubricity with 2D material additives 2021 , 167-187		1
359	Tribo-induced interfacial nanostructures stimulating superlubricity in amorphous carbon films 2021 , 289-307		
358	Superlubricity of water-based lubricants 2021 , 333-357		1
357	Superlubricity with nonaqueous liquid 2021 , 379-403		1
356	Exploration of molecular behaviors in liquid superlubricity 2021 , 475-498		
355	Influence of a carbon-based tribofilm induced by the friction temperature on the tribological properties of impregnated graphite sliding against a cemented carbide. <i>Friction</i> , 2021 , 9, 686-696	5.6	9
354	A simple method to understand molecular conformation on surface-enhanced Raman scattering substrate. <i>Journal of Molecular Structure</i> , 2021 , 1223, 128908	3.4	1
353	In-situ formation of tribofilm with Ti3C2Tx MXene nanoflakes triggers macroscale superlubricity. <i>Tribology International</i> , 2021 , 154, 106695	4.9	13
352	Superlubricity of black phosphorus as lubricant additive 2021 , 439-460		
351	Unraveling the Friction Evolution Mechanism of Diamond-Like Carbon Film during Nanoscale Running-In Process toward Superlubricity. <i>Small</i> , 2021 , 17, e2005607	11	6
350	Tribochemical mechanism of superlubricity in graphene quantum dots modified DLC films under high contact pressure. <i>Carbon</i> , 2021 , 173, 329-338	10.4	11
349	Influence of structural evolution on sliding interface for enhancing tribological performance of onion-like carbon films via thermal annealing. <i>Applied Surface Science</i> , 2021 , 541, 148441	6.7	3
348	Improvement of the lubrication properties of grease with Mn3O4/graphene (Mn3O4#G) nanocomposite additive. <i>Friction</i> , 2021 , 9, 1361-1377	5.6	9
347	A review on tribology of polymer composite coatings. <i>Friction</i> , 2021 , 9, 429-470	5.6	28
346	Ultralow friction polymer composites incorporated with monodispersed oil microcapsules. <i>Friction</i> , 2021 , 9, 29-40	5.6	19
345	Fast Optical-Thermal Responsive Intelligent Glass Realized by Hydrated Poly(N-Isopropylacrylamide) Film. <i>Macromolecular Materials and Engineering</i> , 2021 , 306, 2100272	3.9	

344	Light-Controlled Friction by Carboxylic Azobenzene Molecular Self-Assembly Layers. <i>Frontiers in Chemistry</i> , 2021 , 9, 707232	5	1
343	Origin of friction and the new frictionless technology Superlubricity: Advancements and future outlook. <i>Nano Energy</i> , 2021 , 86, 106092	17.1	11
342	Preparation of Triple-Functionalized Montmorillonite Layers Promoting Thermal Stability of Polystyrene. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
341	Hexadecane-containing sandwich structure based triboelectric nanogenerator with remarkable performance enhancement. <i>Nano Energy</i> , 2021 , 87, 106198	17.1	11
340	Influence of "Seebeck effect" on charge transfer between two friction surfaces. <i>Tribology International</i> , 2021 , 161, 107060	4.9	
339	Temporary or permanent liquid superlubricity failure depending on shear-induced evolution of surface topography. <i>Tribology International</i> , 2021 , 161, 107076	4.9	4
338	2D metal-organic frameworks with square grid structure: A promising new-generation superlubricating material. <i>Nano Today</i> , 2021 , 40, 101262	17.9	12
337	Magnetic field effect on apparent viscosity reducing of different crude oils at low temperature. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 629, 127372	5.1	1
336	Efficient one-pot synthesis of mussel-inspired Cu-doped polydopamine nanoparticles with enhanced lubrication under heavy loads. <i>Chemical Engineering Journal</i> , 2021 , 426, 131287	14.7	7
335	Thermal-mechanical fully coupled analysis of high-speed angular contact ball bearings. <i>Journal of Mechanical Science and Technology</i> , 2021 , 35, 669-678	1.6	1
334	Preparation and tribological properties of PTFE/DE/ATF6 composites with self-contained solid-liquid synergetic lubricating performance. <i>Composites Communications</i> , 2020 , 22, 100513	6.7	5
333	Black Phosphorus Quantum Dots in Aqueous Ethylene Glycol for Macroscale Superlubricity. <i>ACS Applied Nano Materials</i> , 2020 , 3, 4799-4809	5.6	25
332	Macroscale Light-Controlled Lubrication Enabled by Introducing Diarylethene Molecules in a Nanoconfinement. <i>Langmuir</i> , 2020 , 36, 5820-5828	4	5
331	Preparation and tribological properties of solid-liquid synergetic self-lubricating PTFE/SiO ₂ /PAO6 composites. <i>Composites Part B: Engineering</i> , 2020 , 196, 108133	10	15
330	Enhancement of friction performance of fluorinated graphene and molybdenum disulfide coating by microdimple arrays. <i>Carbon</i> , 2020 , 167, 122-131	10.4	12
329	A highly tough and ultralow friction resin nanocomposite with crosslinkable polymer-encapsulated nanoparticles. <i>Composites Part B: Engineering</i> , 2020 , 197, 108157	10	12
328	Superlubricative engineering Future industry nearly getting rid of wear and frictional energy consumption. <i>Friction</i> , 2020 , 8, 643-665	5.6	54
327	Mechanical and tribological properties of nanocomposites incorporated with two-dimensional materials. <i>Friction</i> , 2020 , 8, 813-846	5.6	37

326	Band Structure, Band Offsets, and Intrinsic Defect Properties of Few-Layer Arsenic and Antimony. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 7441-7448	3.8	3
325	Graphene-induced reconstruction of the sliding interface assisting the improved lubricity of various tribo-couples. <i>Materials and Design</i> , 2020 , 191, 108661	8.1	11
324	Achieving a superlubricating ohmic sliding electrical contact via a 2D heterointerface: a computational investigation. <i>Nanoscale</i> , 2020 , 12, 7857-7863	7.7	6
323	Influence of elastic property on the friction between atomic force microscope tips and 2D materials. <i>Nanotechnology</i> , 2020 , 31, 285710	3.4	6
322	Controllable Superlubricity System of Polyalkylene Glycol Aqueous Solutions under Various Applied Conditions. <i>Macromolecular Materials and Engineering</i> , 2020 , 305, 2000141	3.9	3
321	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	9.3	11
320	Effect of deformation modes and heat treatment on microstructure and impact property restoration of internal crack healing in SA 508 steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 778, 139073	5.3	3
319	Achieving controllable friction of ultrafine-grained graphite HPG510 by tailoring the interfacial nanostructures. <i>Applied Surface Science</i> , 2020 , 512, 145731	6.7	3
318	Super-Slippery Degraded Black Phosphorus/Silicon Dioxide Interface. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 7717-7726	9.5	22
317	Microscale superlubricity at multiple gold-graphite heterointerfaces under ambient conditions. <i>Carbon</i> , 2020 , 161, 827-833	10.4	8
316	Nanostructured tribolayer-dependent lubricity of graphene and modified graphene nanoflakes on sliding steel surfaces in humid air. <i>Tribology International</i> , 2020 , 145, 106203	4.9	8
315	Study on microstructural and tribological properties of sulphonitrocarburized layers diffused by hollow cathode discharging. <i>Vacuum</i> , 2020 , 174, 109188	3.7	5
314	Electrical bearing failures in electric vehicles. <i>Friction</i> , 2020 , 8, 4-28	5.6	26
313	Tribo-Induced Near-Infrared Light Emission between Metal and Quartz. <i>Langmuir</i> , 2020 , 36, 1165-1173	4	1
312	Fabrication of a graphene layer probe to measure force interactions in layered heterojunctions. <i>Nanoscale</i> , 2020 , 12, 5435-5443	7.7	8
311	Superhigh-exfoliation graphene with a unique two-dimensional (2D) microstructure for lubrication application. <i>Applied Surface Science</i> , 2020 , 513, 145608	6.7	16
310	A molecular dynamics study of lubricating mechanism of graphene nanoflakes embedded in Cu-based nanocomposite. <i>Applied Surface Science</i> , 2020 , 511, 145620	6.7	16
309	Interfacial Nanostructure of 2D Ti3C2/Graphene Quantum Dots Hybrid Multicoating for Ultralow Wear. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901369	3.5	17

308	The Effects of Homogenizing and Quenching and Tempering Treatments on Crack Healing. <i>Metals</i> , 2020 , 10, 427	2.3	2
307	Macroscale Superlubricity Achieved on the Hydrophobic Graphene Coating with Glycerol. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 18859-18869	9.5	21
306	Atomic-scale insights into the interfacial instability of superlubricity in hydrogenated amorphous carbon films. <i>Science Advances</i> , 2020 , 6, eaay1272	14.3	28
305	Effects of Heat Treatment Method on Microstructure and Mechanical Properties of Internal Crack Healing in SA 508-3 Steel. <i>Minerals, Metals and Materials Series</i> , 2020 , 47-54	0.3	
304	Understanding Interlayer Contact Conductance in Twisted Bilayer Graphene. <i>Small</i> , 2020 , 16, e1902844	11	13
303	Tribo-Induced Interfacial Material Transfer of an Atomic Force Microscopy Probe Assisting Superlubricity in a WS/Graphene Heterojunction. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 4031-4040	9.5	15
302	Macroscale superlubricity achieved between zwitterionic copolymer hydrogel and sapphire in water. <i>Materials and Design</i> , 2020 , 188, 108441	8.1	14
301	Ultrastable Lubricating Properties of Robust Self-Repairing Tribofilms Enabled by in Situ-Assembled Polydopamine Nanoparticles. <i>Langmuir</i> , 2020 , 36, 852-861	4	17
300	Origins of Superlubricity Promoted by Hydrated Multivalent Ions. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 184-190	6.4	14
299	Catalytically Active Oil-Based Lubricant Additives Enabled by Calcining Ni-Al Layered Double Hydroxides. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 113-120	6.4	11
298	Dynamic wear sensor array based on single-electrode triboelectric nanogenerators. <i>Nano Energy</i> , 2020 , 68, 104303	17.1	6
297	Direct Visualization of Exciton Transport in Defective Few-Layer WS by Ultrafast Microscopy. <i>Advanced Materials</i> , 2020 , 32, e1906540	24	22
296	Potential-Dependent Friction on a Graphitic Surface in Ionic Solution. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 23745-23751	3.8	4
295	Intelligent lubricating materials: A review. <i>Composites Part B: Engineering</i> , 2020 , 202, 108450	10	33
294	Influence Factors on Mechanisms of Superlubricity in DLC Films: A Review. <i>Frontiers in Mechanical Engineering</i> , 2020 , 6,	2.6	14
293	Superlubricity between Graphite Layers in Ultrahigh Vacuum. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 43167-43172	9.5	13
292	Optimization of groove texture profile to improve hydrodynamic lubrication performance: Theory and experiments. <i>Friction</i> , 2020 , 8, 83-94	5.6	36
291	Synthesis and characterizations of zwitterionic copolymer hydrogels with excellent lubrication behavior. <i>Tribology International</i> , 2020 , 143, 106026	4.9	9

290	Modelling for water-based liquid lubrication with ultra-low friction coefficient in rough surface point contact. <i>Tribology International</i> , 2020 , 141, 105901	4.9	5
289	Controllable Interlayer Charge and Energy Transfer in Perovskite Quantum Dots/ Transition Metal Dichalcogenide Heterostructures. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1901263	4.6	9
288	Different directional energy dissipation of heterogeneous polymers in bimodal atomic force microscopy.. <i>RSC Advances</i> , 2019 , 9, 27464-27474	3.7	4
287	The effect of magnetic field on the hydration of cation in solution revealed by THz spectroscopy and MDs. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 582, 123822	5.1	4
286	Fluorinated Graphene: A Promising Macroscale Solid Lubricant under Various Environments. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40470-40480	9.5	19
285	Macroscale superlubricity under extreme pressure enabled by the combination of graphene-oxide nanosheets with ionic liquid. <i>Carbon</i> , 2019 , 151, 76-83	10.4	48
284	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	9.5	22
283	Molecular behaviors in thin film lubrication Part one: Film formation for different polarities of molecules. <i>Friction</i> , 2019 , 7, 372-387	5.6	23
282	Molecular behaviors in thin film lubrication Part two: Direct observation of the molecular orientation near the solid surface. <i>Friction</i> , 2019 , 7, 479-488	5.6	18
281	Lubricity and Adsorption of Castor Oil Sulfated Sodium Salt Emulsion Solution on Titanium Alloy. <i>Tribology Letters</i> , 2019 , 67, 1	2.8	3
280	Superlubricity of Polyalkylene Glycol Aqueous Solutions Enabled by Ultrathin Layered Double Hydroxide Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20249-20256	9.5	28
279	Modeling Atomic-Scale Electrical Contact Quality Across Two-Dimensional Interfaces. <i>Nano Letters</i> , 2019 , 19, 3654-3662	11.5	10
278	Molecular Origin of Superlubricity between Graphene and a Highly Hydrophobic Surface in Water. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2978-2984	6.4	21
277	Crack Healing and Mechanical Properties Recovery in SA 508?3 Steel. <i>Materials</i> , 2019 , 12,	3.5	3
276	Friction and wear behavior of PTFE coatings modified with poly (methyl methacrylate). <i>Composites Part B: Engineering</i> , 2019 , 172, 316-322	10	27
275	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	6	12
274	Core-shell nanospheres to achieve ultralow friction polymer nanocomposites with superior mechanical properties. <i>Nanoscale</i> , 2019 , 11, 8237-8246	7.7	20
273	Exciton Radiative Recombination Dynamics and Nonradiative Energy Transfer in Two-Dimensional Transition-Metal Dichalcogenides. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 10087-10093	3.8	20

272	A novel route to the synthesis of an FeO/h-BN 2D nanocomposite as a lubricant additive.. <i>RSC Advances</i> , 2019 , 9, 6583-6588	3.7	17
271	Molecular behaviors in thin film lubricationPart three: Superlubricity attained by polar and nonpolar molecules. <i>Friction</i> , 2019 , 7, 625-636	5.6	21
270	Macroscale Superlubricity Achieved With Various Liquid Molecules: A Review. <i>Frontiers in Mechanical Engineering</i> , 2019 , 5,	2.6	22
269	Exploring interlayer interaction of SnSe ₂ by low-frequency Raman spectroscopy. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019 , 105, 7-12	3	5
268	Tangential motion mechanism and reverse hydrodynamic effects of acoustic platform with nonparallel squeeze film. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2019 , 233, 194-204	1.4	1
267	Thinning of glycerol in the presence of multi-walled carbon nanotubes. <i>Journal of Chemical Physics</i> , 2019 , 151, 054302	3.9	
266	Enhancement of friction performance enabled by a synergetic effect between graphene oxide and molybdenum disulfide. <i>Carbon</i> , 2019 , 154, 266-276	10.4	37
265	Cationic Surfactant Micelles Lubricate Graphitic Surface in Water. <i>Langmuir</i> , 2019 , 35, 11108-11113	4	6
264	Zwitterionic Hydrogel Incorporated Graphene Oxide Nanosheets with Improved Strength and Lubricity. <i>Langmuir</i> , 2019 , 35, 11452-11462	4	22
263	Ultra-Wear-Resistant MXene-Based Composite Coating via in Situ Formed Nanostructured Tribofilm. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 32569-32576	9.5	37
262	Temperature measurement during the sliding between Al ₂ O ₃ and SiO ₂ crystals by double line of Atomic Emission Spectroscopy. <i>Journal of Luminescence</i> , 2019 , 215, 116615	3.8	1
261	Ultra-low friction of a-C:H films enabled by lubrication of nanodiamond and graphene in ambient air. <i>Carbon</i> , 2019 , 154, 203-210	10.4	22
260	Mechanism of Superlubricity Conversion with Polyalkylene Glycol Aqueous Solutions. <i>Langmuir</i> , 2019 , 35, 11784-11790	4	9
259	Contribution of a Tribo-Induced Silica Layer to Macroscale Superlubricity of Hydrated Ions. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 20270-20277	3.8	23
258	In Situ Green Synthesis of the New Sandwichlike Nanostructure of MnO/Graphene as Lubricant Additives. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 36931-36938	9.5	30
257	In-Plane Potential Gradient Induces Low Frictional Energy Dissipation during the Stick-Slip Sliding on the Surfaces of 2D Materials. <i>Small</i> , 2019 , 15, e1904613	11	7
256	Preparation of self-lubricating NiTi alloy and its self-adaptive behavior. <i>Tribology International</i> , 2019 , 130, 43-51	4.9	11
255	Synergistic tribological behaviors of graphene oxide and nanodiamond as lubricating additives in water. <i>Tribology International</i> , 2019 , 132, 177-184	4.9	34

254	Interlayer interaction on twisted interface in incommensurate stacking MoS: A Raman spectroscopy study. <i>Journal of Colloid and Interface Science</i> , 2019 , 538, 159-164	9.3	10
253	Superlubricity and Antiwear Properties of In Situ-Formed Ionic Liquids at Ceramic Interfaces Induced by Tribochemical Reactions. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 6568-6574	9.5	39
252	Microstructure, mechanical and adhesive properties of CrN/CrTiAlSiN/WCrTiAlN multilayer coatings deposited on nitrided AISI 4140 steel. <i>Materials Characterization</i> , 2019 , 147, 353-364	3.9	19
251	Gradual degeneration of liquid superlubricity: Transition from superlubricity to ordinary lubrication, and lubrication failure. <i>Tribology International</i> , 2019 , 130, 352-358	4.9	8
250	Effects of grain boundary on wear of graphene at the nanoscale: A molecular dynamics study. <i>Carbon</i> , 2019 , 143, 578-586	10.4	34
249	XPS and ToF-SIMS analysis of the tribochemical absorbed films on steel surfaces lubricated with diketone. <i>Tribology International</i> , 2019 , 130, 184-190	4.9	12
248	Water-based superlubricity in vacuum. <i>Friction</i> , 2019 , 7, 192-198	5.6	10
247	Tribological behavior of polytetrafluoroethylene coating reinforced with black phosphorus nanoparticles. <i>Applied Surface Science</i> , 2018 , 441, 670-677	6.7	33
246	Black phosphorus as a new lubricant. <i>Friction</i> , 2018 , 6, 116-142	5.6	102
245	Revealing the essence of luminescence energy transformation from silica surfaces. <i>Journal of Luminescence</i> , 2018 , 197, 389-395	3.8	1
244	Liquid Superlubricity of Polyethylene Glycol Aqueous Solution Achieved with Boric Acid Additive. <i>Langmuir</i> , 2018 , 34, 3578-3587	4	32
243	Laser irradiation-induced laminated graphene/MoS composites with synergistically improved tribological properties. <i>Nanotechnology</i> , 2018 , 29, 265704	3.4	13
242	Nano-Ag-forest based surface enhanced Raman spectroscopy (SERS) of confined acetic acid. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 547, 126-133	5.1	7
241	Improvement of Load Bearing Capacity of Nanoscale Superlow Friction by Synthesized Fluorinated Surfactant Micelles. <i>ACS Applied Nano Materials</i> , 2018 , 1, 953-959	5.6	8
240	Superlubricity of Graphite Induced by Multiple Transferred Graphene Nanoflakes. <i>Advanced Science</i> , 2018 , 5, 1700616	13.6	63
239	Mechanism of Antiwear Property Under High Pressure of Synthetic Oil-Soluble Ultrathin MoS Sheets as Lubricant Additives. <i>Langmuir</i> , 2018 , 34, 1635-1644	4	29
238	Normal and Frictional Force Hysteresis between Self-Assembled Fluorosurfactant Micelle Arrays at the Nanoscale. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1700802	4.6	6
237	Superlubricity of 1-Ethyl-3-methylimidazolium trifluoromethanesulfonate Ionic Liquid Induced by Tribochemical Reactions. <i>Langmuir</i> , 2018 , 34, 5245-5252	4	24

236	Self-Lubricating PTFE-Based Composites with Black Phosphorus Nanosheets. <i>Tribology Letters</i> , 2018 , 66, 1	2.8	51
235	Friction-induced nano-structural evolution of graphene as a lubrication additive. <i>Applied Surface Science</i> , 2018 , 434, 21-27	6.7	117
234	Random occurrence of macroscale superlubricity of graphite enabled by tribo-transfer of multilayer graphene nanoflakes. <i>Carbon</i> , 2018 , 138, 154-160	10.4	30
233	Layer-Number-Dependent Exciton Recombination Behaviors of MoS ₂ Determined by Fluorescence-Lifetime Imaging Microscopy. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 18651-18658	3.8	15
232	Interlayer Friction and Superlubricity in Single-Crystalline Contact Enabled by Two-Dimensional Flake-Wrapped Atomic Force Microscope Tips. <i>ACS Nano</i> , 2018 , 12, 7638-7646	16.7	74
231	Black Phosphorus: Degradation Favors Lubrication. <i>Nano Letters</i> , 2018 , 18, 5618-5627	11.5	71
230	Superlubricity of 1,3-diketone based on autonomous viscosity control at various velocities. <i>Tribology International</i> , 2018 , 126, 127-132	4.9	15
229	Investigation of ultra-low friction on steel surfaces with diketone lubricants.. <i>RSC Advances</i> , 2018 , 8, 9402-9408	3.7	9
228	Atomic Scale Simulation on the Anti-Pressure and Friction Reduction Mechanisms of MoS ₂ Monolayer. <i>Materials</i> , 2018 , 11,	3.5	5
227	Investigation on inner flow field characteristics of groove textures in fully lubricated thrust bearings. <i>Industrial Lubrication and Tribology</i> , 2018 , 70, 754-763	1.3	4
226	Fracture of the Intermolecular Hydrogen Bond Network Structure of Glycerol Modified by Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 19931-19936	3.8	13
225	Origin of hydration lubrication of zwitterions on graphene. <i>Nanoscale</i> , 2018 , 10, 16887-16894	7.7	22
224	Influence of the micromorphology of reduced graphene oxide sheets on lubrication properties as a lubrication additive. <i>Tribology International</i> , 2018 , 119, 614-621	4.9	38
223	Influence of annealing on the tribological properties of Zr-based bulk metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2018 , 481, 94-97	3.9	13
222	Film forming behavior in thin film lubrication at high speeds. <i>Friction</i> , 2018 , 6, 156-163	5.6	9
221	Graphene Nanoflakes: Superlubricity of Graphite Induced by Multiple Transferred Graphene Nanoflakes (Adv. Sci. 3/2018). <i>Advanced Science</i> , 2018 , 5, 1870018	13.6	11
220	Water molecules on the liquid superlubricity interfaces achieved by phosphoric acid solution. <i>Biosurface and Biotribology</i> , 2018 , 4, 94-98	1	5
219	Self-Retracted of Surfactant Droplets on a Superhydrophilic Surface. <i>Langmuir</i> , 2018 , 34, 15388-15395	4	1

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