

Xiaolei Wang

List of Publications by Year in descending order

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208
papers

9,540
citations

34105

52
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43889

91
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all docs

211
docs citations

211
times ranked

10024
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and Synthesis of Hierarchical Nanowire Composites for Electrochemical Energy Storage. <i>Advanced Functional Materials</i> , 2009, 19, 3420-3426.	14.9	440
2	Loads carrying capacity map for the surface texture design of SiC thrust bearing sliding in water. <i>Tribology International</i> , 2003, 36, 189-197.	5.9	413
3	Structural and chemical synergistic encapsulation of polysulfides enables ultralong-life lithium-sulfur batteries. <i>Energy and Environmental Science</i> , 2016, 9, 2533-2538.	30.8	330
4	High-Performance Supercapacitors Based on Nanocomposites of Nb ₂ O ₅ Nanocrystals and Carbon Nanotubes. <i>Advanced Energy Materials</i> , 2011, 1, 1089-1093.	19.5	312
5	Geometric Shape Effects of Surface Texture on the Generation of Hydrodynamic Pressure Between Conformal Contacting Surfaces. <i>Tribology Letters</i> , 2010, 37, 123-130.	2.6	286
6	Pomegranate-Inspired Design of Highly Active and Durable Bifunctional Electrocatalysts for Rechargeable Metal-Air Batteries. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4977-4982.	13.8	258
7	The effect of laser texturing of SiC surface on the critical load for the transition of water lubrication mode from hydrodynamic to mixed. <i>Tribology International</i> , 2001, 34, 703-711.	5.9	238
8	Optimization of the surface texture for silicon carbide sliding in water. <i>Applied Surface Science</i> , 2006, 253, 1282-1286.	6.1	214
9	Microwave-assisted pyrolysis of sewage sludge: A review. <i>Fuel Processing Technology</i> , 2019, 187, 84-104.	7.2	190
10	Two-Dimensional Phosphorus-Doped Carbon Nanosheets with Tunable Porosity for Oxygen Reactions in Zinc-Air Batteries. <i>ACS Catalysis</i> , 2018, 8, 2464-2472.	11.2	175
11	Orientation effects of micro-grooves on sliding surfaces. <i>Tribology International</i> , 2011, 44, 1047-1054.	5.9	173
12	Building Robust Architectures of Carbon and Metal Oxide Nanocrystals toward High-Performance Anodes for Lithium-Ion Batteries. <i>ACS Nano</i> , 2012, 6, 9911-9919.	14.6	165
13	Sulfur Atoms Bridging Few-layered MoS ₂ with S-Doped Graphene Enable Highly Robust Anode for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1501106.	19.5	165
14	Sulfur covalently bonded graphene with large capacity and high rate for high-performance sodium-ion batteries anodes. <i>Nano Energy</i> , 2015, 15, 746-754.	16.0	164
15	Evidence of covalent synergy in silicon-sulfur-graphene yielding highly efficient and long-life lithium-ion batteries. <i>Nature Communications</i> , 2015, 6, 8597.	12.8	163
16	Improving the Anti-seizure Ability of SiC Seal in Water with RIE Texturing. <i>Tribology Letters</i> , 2003, 14, 275-280.	2.6	156
17	Implementing an in-situ carbon network in Si/reduced graphene oxide for high performance lithium-ion battery anodes. <i>Nano Energy</i> , 2016, 19, 187-197.	16.0	148
18	High-performance flexible lithium-ion electrodes based on robust network architecture. <i>Energy and Environmental Science</i> , 2012, 5, 6845.	30.8	144

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19	Preliminary investigation of the effect of dimple size on friction in line contacts. <i>Tribology International</i> , 2009, 42, 1118-1123.	5.9	133
20	Enhanced Reversible Sodium-Ion Intercalation by Synergistic Coupling of Few-Layered MoS ₂ and S-Doped Graphene. <i>Advanced Functional Materials</i> , 2017, 27, 1702562.	14.9	132
21	3D Nanocomposite Architectures from Carbon Nanotube-Threaded Nanocrystals for High-Performance Electrochemical Energy Storage. <i>Advanced Materials</i> , 2014, 26, 339-345.	21.0	125
22	High-Performance Energy Storage Architectures from Carbon Nanotubes and Nanocrystal Building Blocks. <i>Advanced Materials</i> , 2012, 24, 2030-2036.	21.0	112
23	Alloyed semiconductor nanocrystals with broad tunable band gaps. <i>Chemical Communications</i> , 2009, , 4221.	4.1	111
24	Significance of Dimple Parameters on the Friction of Sliding Surfaces Investigated by Orthogonal Experiments. <i>Tribology Transactions</i> , 2010, 53, 703-712.	2.0	111
25	3D Hierarchical Carbon-Rich Micro-/Nanomaterials for Energy Storage and Catalysis. <i>Electrochemical Energy Reviews</i> , 2021, 4, 269-335.	25.5	108
26	3D N-doped hybrid architectures assembled from OD T-Nb ₂ O ₅ embedded in carbon microtubes toward high-rate Li-ion capacitors. <i>Nano Energy</i> , 2019, 56, 118-126.	16.0	105
27	Dimple patterns design for different circumstances. <i>Lubrication Science</i> , 2013, 25, 67-78.	2.1	103
28	Synthesis of Quaternary Semiconductor Nanocrystals with Tunable Band Gaps. <i>Chemistry of Materials</i> , 2009, 21, 2489-2493.	6.7	102
29	Carbon-Coated Silicon Nanowires on Carbon Fabric as Self-Supported Electrodes for Flexible Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9551-9558.	8.0	101
30	Gas Pickering Emulsion Templated Hollow Carbon for High Rate Performance Lithium Sulfur Batteries. <i>Advanced Functional Materials</i> , 2016, 26, 8408-8417.	14.9	98
31	The Lubrication Effect of Micro-Pits on Parallel Sliding Faces of SiC in Water. <i>Tribology Transactions</i> , 2002, 45, 294-301.	2.0	97
32	Creation of Topological Ultraslippy Surfaces for Droplet Motion Control. <i>ACS Nano</i> , 2021, 15, 2589-2599.	14.6	93
33	Flexible, three-dimensional ordered macroporous TiO ₂ electrode with enhanced electrode-electrolyte interaction in high-power Li-ion batteries. <i>Nano Energy</i> , 2016, 24, 72-77.	16.0	91
34	Tuning Shell Numbers of Transition Metal Oxide Hollow Microspheres toward Durable and Superior Lithium Storage. <i>ACS Nano</i> , 2017, 11, 11521-11530.	14.6	88
35	The lubricant retaining effect of micro-dimples on the sliding surface of PDMS. <i>Tribology International</i> , 2012, 52, 87-93.	5.9	84
36	High-performance flexible electrode based on electrodeposition of polypyrrole/MnO ₂ on carbon cloth for supercapacitors. <i>Journal of Power Sources</i> , 2016, 326, 357-364.	7.8	81

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37	Investigation of porous polyimide lubricant retainers to improve the performance of rolling bearings under conditions of starved lubrication. <i>Wear</i> , 2017, 380-381, 52-58.	3.1	74
38	Biomimetic design of elastomer surface pattern for friction control under wet conditions. <i>Bioinspiration and Biomimetics</i> , 2013, 8, 046001.	2.9	72
39	Bifunctionally active and durable hierarchically porous transition metal-based hybrid electrocatalyst for rechargeable metal-air batteries. <i>Applied Catalysis B: Environmental</i> , 2018, 239, 677-687.	20.2	64
40	Comparison of the effects of surface texture on the surfaces of steel and UHMWPE. <i>Tribology International</i> , 2013, 65, 138-145.	5.9	63
41	Sulfur Nanogranular Film-Coated Three-Dimensional Graphene Sponge-Based High Power Lithium Sulfur Battery. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 1984-1991.	8.0	63
42	Efficient Zn Metal Anode Enabled by O,N-Codoped Carbon Microflowers. <i>Nano Letters</i> , 2022, 22, 1350-1357.	9.1	63
43	Nb ₂ O ₅ -carbon core-shell nanocomposite as anode material for lithium ion battery. <i>Journal of Energy Chemistry</i> , 2013, 22, 357-362.	12.9	62
44	Friction and wear property of a-CN _x coatings sliding against Si ₃ N ₄ balls in water. <i>Wear</i> , 2007, 263, 1253-1258.	3.1	61
45	Hierarchical Ni-Mo ₂ C/N-doped carbon Mott-Schottky array for water electrolysis. <i>Applied Catalysis B: Environmental</i> , 2021, 292, 120168.	20.2	60
46	An Ultrafast, Durable, and High-Loading Polymer Anode for Aqueous Zinc-Ion Batteries and Supercapacitors. <i>Advanced Materials</i> , 2022, 34, e2200077.	21.0	60
47	A wear particle identification method by combining principal component analysis and grey relational analysis. <i>Wear</i> , 2013, 304, 96-102.	3.1	59
48	Dimeric pyrrole-imidazole alkaloids: synthetic approaches and biosynthetic hypotheses. <i>Chemical Communications</i> , 2014, 50, 8628-8639.	4.1	59
49	Highly Oriented Graphene Sponge Electrode for Ultra High Energy Density Lithium Ion Hybrid Capacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25297-25305.	8.0	59
50	Highly Active and Durable Nanocrystal-Decorated Bifunctional Electrocatalyst for Rechargeable Zinc-Air Batteries. <i>ChemSusChem</i> , 2015, 8, 3129-3138.	6.8	57
51	Thermocapillary Migration of Liquid Droplets Induced by a Unidirectional Thermal Gradient. <i>Langmuir</i> , 2016, 32, 7485-7492.	3.5	57
52	Composites of MnO ₂ nanocrystals and partially graphitized hierarchically porous carbon spheres with improved rate capability for high-performance supercapacitors. <i>Carbon</i> , 2015, 93, 258-265.	10.3	56
53	Study on the Ferrofluid Lubrication with an External Magnetic Field. <i>Tribology Letters</i> , 2011, 41, 145-151.	2.6	55
54	Influence of normal load and sliding speed on the tribological property of amorphous carbon nitride coatings sliding against Si ₃ N ₄ balls in water. <i>Surface and Coatings Technology</i> , 2008, 202, 3519-3528.	4.8	53

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55	A General Synthesis of Cu ²⁺ /In ³⁺ S Based Multicomponent Solid-Solution Nanocrystals with Tunable Band Gap, Size, and Structure. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17293-17297.	3.1	53
56	Fast lithium-ion storage of Nb ₂ O ₅ nanocrystals in situ grown on carbon nanotubes for high-performance asymmetric supercapacitors. <i>RSC Advances</i> , 2015, 5, 41179-41185.	3.6	51
57	Design principles for the area density of dimple patterns. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2015, 229, 538-546.	1.8	49
58	The load carrying capacity of textured sliding bearings with elastic deformation. <i>Tribology International</i> , 2017, 109, 86-96.	5.9	45
59	Hierarchical Chestnut-Burr Like Structure of Copper Cobalt Oxide Electrocatalyst Directly Grown on Ni Foam for Anion Exchange Membrane Water Electrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2344-2349.	6.7	45
60	N, O-codoped Carbon Nanosheet Array Enabling Stable Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2021, 31, 2102354.	14.9	45
61	A Biomimetic Route for Construction of the [4+2] and [3+2] Core Skeletons of Dimeric Pyrrole-Imidazole Alkaloids and Asymmetric Synthesis of Ageliferins. <i>Journal of the American Chemical Society</i> , 2012, 134, 18834-18842.	13.7	43
62	Composition design of nano-Al ₂ O ₃ -PTFE coatings and their tribological characteristics. <i>Surface and Coatings Technology</i> , 2015, 282, 121-128.	4.8	43
63	Study on the Synthesis and Tribological Property of Fe ₃ O ₄ Based Magnetic Fluids. <i>Tribology Letters</i> , 2009, 33, 187-192.	2.6	42
64	A novel surface texture for magnetic fluid lubrication. <i>Surface and Coatings Technology</i> , 2009, 204, 433-439.	4.8	41
65	The segmentation of wear particles in ferrograph images based on an improved ant colony algorithm. <i>Wear</i> , 2014, 311, 123-129.	3.1	41
66	Preparing a high-particle-content Ni/diamond composite coating with strong abrasive ability. <i>Surface and Coatings Technology</i> , 2013, 235, 489-494.	4.8	40
67	Ferrofluids lubrication: a status report. <i>Lubrication Science</i> , 2016, 28, 3-26.	2.1	40
68	Multi-objective optimization on dimple shapes for gas face seals. <i>Tribology International</i> , 2018, 123, 216-223.	5.9	40
69	Bimetallic CoNi Alloy Nanoparticles Embedded in Pomegranate-like Nitrogen-Doped Carbon Spheres for Electrocatalytic Oxygen Reduction and Evolution. <i>ACS Applied Nano Materials</i> , 2020, 3, 1354-1362.	5.0	39
70	A composite PEO electrolyte with amide-based polymer matrix for suppressing lithium dendrite growth in all-solid-state lithium battery. <i>Chinese Chemical Letters</i> , 2022, 33, 3894-3898.	9.0	38
71	High Performance Porous Anode Based on Template-Free Synthesis of Co ₃ O ₄ Nanowires for Lithium-Ion Batteries. <i>Electrochimica Acta</i> , 2014, 139, 145-151.	5.2	37
72	Revealing the role of Mo doping in promoting oxygen reduction reaction performance of Pt ₃ Co nanowires. <i>Journal of Energy Chemistry</i> , 2022, 66, 16-23.	12.9	36

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73	Comparison of the Load-Carrying Performance of Mechanical Gas Seals Textured With Microgrooves and Microdimples. <i>Journal of Tribology</i> , 2016, 138, .	1.9	32
74	Preparation and Properties of $\hat{\mu}$ -Fe ₃ N-Based Magnetic Fluid. <i>Nanoscale Research Letters</i> , 2008, 3, .	5.7	31
75	Surface roughness and orientation effects on the thermo-capillary migration of a droplet of paraffin oil. <i>Experimental Thermal and Fluid Science</i> , 2014, 57, 200-206.	2.7	31
76	Vanadium Pentoxide Nanorods Anchored to and Wrapped with Graphene Nanosheets for High-Power Asymmetric Supercapacitors. <i>ChemElectroChem</i> , 2015, 2, 1264-1269.	3.4	31
77	Directional interfacial motion of liquids: Fundamentals, evaluations, and manipulation strategies. <i>Tribology International</i> , 2021, 154, 106749.	5.9	31
78	Influence of nitrogen ion implantation fluences on surface structure and tribological properties of SiC ceramics in water-lubrication. <i>Applied Surface Science</i> , 2009, 255, 5079-5087.	6.1	30
79	Surface roughness, mechanical properties and bonding structure of silicon carbon nitride films grown by dual ion beam sputtering. <i>Journal of Alloys and Compounds</i> , 2010, 492, 269-276.	5.5	30
80	Modify the friction between steel ball and PDMS disk under water lubrication by surface texturing. <i>Meccanica</i> , 2011, 46, 499-507.	2.0	30
81	Tetragonal VNb ₉ O ₂₄ -based nanorods: a novel form of lithium battery anode with superior cyclability. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12409.	10.3	29
82	A non-reference evaluation method for edge detection of wear particles in ferrograph images. <i>Mechanical Systems and Signal Processing</i> , 2018, 100, 863-876.	8.0	29
83	Ionic liquids-based magnetic nanofluids as lubricants. <i>Lubrication Science</i> , 2018, 30, 73-82.	2.1	29
84	A multi-phase micro-abrasive jet machining technique for the surface texturing of mechanical seals. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 86, 2047-2054.	3.0	28
85	Synthesis of magnetic Fe ₃ O ₄ /graphene oxide nanocomposites and their tribological properties under magnetic field. <i>Materials Research Express</i> , 2018, 5, 105006.	1.6	28
86	Using magnetic fluids to improve the behavior of ball bearings under starved lubrication. <i>Tribology International</i> , 2020, 141, 105950.	5.9	28
87	Ultraslippy/hydrophilic patterned surfaces for efficient fog harvest. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 640, 128398.	4.7	28
88	The Critical Condition for the Transition from HL to ML in Water-Lubricated SiC. <i>Tribology Letters</i> , 2004, 16, 253-258.	2.6	27
89	Study on the properties and stability of ionic liquid-based ferrofluids. <i>Colloid and Polymer Science</i> , 2012, 290, 1695-1702.	2.1	27
90	Bioinspired, peg-studded hexagonal patterns for wetting and friction. <i>Biointerphases</i> , 2015, 10, 031008.	1.6	25

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91	Contact angle hysteresis effect on the thermocapillary migration of liquid droplets. <i>Journal of Colloid and Interface Science</i> , 2018, 515, 32-38.	9.4	25
92	Study on Static Supporting Capacity and Tribological Performance of Ferrofluids. <i>Tribology Transactions</i> , 2009, 52, 717-723.	2.0	24
93	±-NiS grown on reduced graphene oxide and single-wall carbon nanotubes as electrode materials for high-power supercapacitors. <i>RSC Advances</i> , 2015, 5, 27940-27945.	3.6	24
94	Preparation and tribological properties of graphene oxide doped alumina composite coatings. <i>Surface and Coatings Technology</i> , 2018, 352, 411-419.	4.8	24
95	A Surface Texture Design to Obstruct the Liquid Migration Induced by Omnidirectional Thermal Gradients. <i>Langmuir</i> , 2015, 31, 10154-10160.	3.5	23
96	Design of ultralong single-crystal nanowire-based bifunctional electrodes for efficient oxygen and hydrogen evolution in a mild alkaline electrolyte. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10895-10901.	10.3	23
97	Electrical Sliding Friction Lubricated with Ionic Liquids. <i>Tribology Letters</i> , 2017, 65, 1.	2.6	23
98	Effect of wetting case and softness on adhesion of bioinspired micropatterned surfaces. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 78, 266-272.	3.1	23
99	The tribological performance of Ti(C,N)-based cermet sliding against Si ₃ N ₄ in water. <i>Wear</i> , 2011, 270, 682-687.	3.1	22
100	Biomimetic surface design for ultrahigh molecular weight polyethylene to improve the tribological properties. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2012, 226, 705-713.	1.8	22
101	Sticking/climbing ability and morphology studies of the toe pads of Chinese fire belly newt. <i>Journal of Bionic Engineering</i> , 2016, 13, 115-123.	5.0	22
102	Investigation of advanced catalytic effect of Co ₃ O ₄ nanosheets modified carbon felts as vanadium flow battery electrodes. <i>Journal of Power Sources</i> , 2021, 494, 229775.	7.8	22
103	Ionic liquid lubrication at electrified interfaces. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 225301.	2.8	21
104	Ringlike Migration of a Droplet Propelled by an Omnidirectional Thermal Gradient. <i>Langmuir</i> , 2018, 34, 3806-3812.	3.5	21
105	MOF-derived yolk-shell Ni/C architectures assembled with Ni@C core-shell nanoparticles for lightweight microwave absorbents. <i>CrystEngComm</i> , 2020, 22, 6796-6804.	2.6	21
106	Characterization of niobium and vanadium oxide nanocomposites with improved rate performance and cycling stability. <i>Electrochimica Acta</i> , 2013, 102, 351-357.	5.2	20
107	Development of a triazole class of highly potent Porcn inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 5891-5895.	2.2	20
108	Pomegranate-inspired Design of Highly Active and Durable Bifunctional Electrocatalysts for Rechargeable Metal-Air Batteries. <i>Angewandte Chemie</i> , 2016, 128, 5061-5066.	2.0	20

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109	Key parameters of biomimetic patterned surface for wet adhesion. <i>International Journal of Adhesion and Adhesives</i> , 2018, 82, 72-78.	2.9	19
110	Ultrafine Li ₄ Ti ₅ O ₁₂ nanocrystals as building blocks for ultrahigh-power lithium-ion battery anodes. <i>Journal of Power Sources</i> , 2022, 521, 230970.	7.8	19
111	A Hybrid Method for the Segmentation of a Ferrograph Image Using Marker-Controlled Watershed and Grey Clustering. <i>Tribology Transactions</i> , 2016, 59, 513-521.	2.0	18
112	Micro-grooves design to modify the thermo-capillary migration of paraffin oil. <i>Meccanica</i> , 2017, 52, 171-181.	2.0	18
113	Surface texturing on SiC by multiphase jet machining with microdiamond abrasives. <i>Materials and Manufacturing Processes</i> , 2018, 33, 1415-1421.	4.7	18
114	Building Ni ₉ /S ₈ /MoS ₂ Nanosheets Decorated NiMoO ₄ Nanorods Heterostructure for Enhanced Water Splitting. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101483.	3.7	18
115	The Wear Behavior of Textured Steel Sliding against Polymers. <i>Materials</i> , 2017, 10, 330.	2.9	17
116	Supporting and friction properties of magnetic fluids bearings. <i>Tribology International</i> , 2019, 130, 334-338.	5.9	17
117	Hollow waxberry-like cobalt-nickel oxide/S,N-codoped carbon nanospheres as a trifunctional electrocatalyst for OER, ORR, and HER. <i>RSC Advances</i> , 2020, 10, 27788-27793.	3.6	17
118	Ready fabrication of thin-film electrodes from building nanocrystals for micro-supercapacitors. <i>Chemical Communications</i> , 2012, 48, 3736.	4.1	16
119	An approach for the synthesis of nakamuric acid. <i>Tetrahedron</i> , 2015, 71, 3690-3693.	1.9	16
120	Efficient Bubble Transport on Bioinspired Topological Ultraslippy Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 61780-61788.	8.0	16
121	Syntheses of sceptrings and nakamuric acid and insights into the biosyntheses of pyrrole-imidazole dimers. <i>Organic Chemistry Frontiers</i> , 2015, 2, 978-984.	4.5	15
122	Colloidal suspension of graphene oxide in ionic liquid as lubricant. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	15
123	Enhanced polysulfide regulation via honeycomb-like carbon with catalytic MoC for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21760-21770.	10.3	15
124	Physical mechanisms behind the wet adhesion: From amphibian toe-pad to biomimetics. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 199, 111531.	5.0	14
125	Architecture-Driven Fast Droplet Transport without Mass Loss. <i>Langmuir</i> , 2021, 37, 12519-12528.	3.5	14
126	On the migration of a droplet on an incline. <i>Journal of Colloid and Interface Science</i> , 2017, 494, 8-14.	9.4	13

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127	Manipulating thermocapillary migration via superoleophobic surfaces with wedge shaped superoleophilic grooves. <i>Journal of Colloid and Interface Science</i> , 2019, 557, 837-844.	9.4	13
128	Composite Ni/UHMWPE coatings and their tribological performances. <i>Applied Surface Science</i> , 2019, 481, 414-420.	6.1	13
129	Effects of magnetic arrayed films on lubrication transition properties of magnetic fluid. <i>Tribology International</i> , 2014, 72, 172-178.	5.9	12
130	Flexible high performance lithium ion battery electrode based on a free-standing TiO ₂ nanocrystals/carbon cloth composite. <i>RSC Advances</i> , 2016, 6, 35479-35485.	3.6	12
131	Controlling lubricant migration using ferrofluids. <i>Tribology International</i> , 2016, 93, 318-323.	5.9	12
132	Friction Reduction of Chrome-Coated Surface with Micro-Dimple Arrays Generated by Electrochemical Micromachining. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 667-675.	2.5	12
133	A Multi-Objective Optimization Approach on Spiral Grooves for Gas Mechanical Seals. <i>Journal of Tribology</i> , 2018, 140, .	1.9	12
134	Characteristics of multiphase jet machining: A comparison with the absence of water. <i>Journal of Materials Processing Technology</i> , 2021, 291, 117050.	6.3	12
135	Observation on the deformation of dimpled surface in soft-EHL contacts. <i>Tribology International</i> , 2018, 119, 521-530.	5.9	11
136	The thermocapillary migration on rough surfaces. <i>Lubrication Science</i> , 2019, 31, 163-170.	2.1	11
137	Hetero-architected core-shell NiMoO ₄ @Ni ₉ S ₈ /MoS ₂ nanorods enabling high-performance supercapacitors. <i>Journal of Materials Research</i> , 2022, 37, 284-293.	2.6	11
138	Advanced adhesion and friction measurement system. <i>Measurement Science and Technology</i> , 2017, 28, 035601.	2.6	10
139	Elastic support of magnetic fluids bearing. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 435004.	2.8	10
140	Experimental verification of textured mechanical seal designed using multi-objective optimization. <i>Industrial Lubrication and Tribology</i> , 2019, 71, 766-771.	1.3	10
141	Regulating the lattice strain of platinum-copper catalysts for enhancing collaborative electrocatalysis. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 249-258.	6.0	10
142	The Effects of Dimple Size and Depth on Friction Reduction Under Boundary Lubrication Pressure. , 2007, , 909.		9
143	Micro-Magnetic Field Arrayed Surface for Ferrofluids Lubrication. <i>Journal of Tribology</i> , 2012, 134, .	1.9	9
144	Wettability and friction coefficient of micro-magnet arrayed surface. <i>Applied Surface Science</i> , 2012, 258, 3062-3067.	6.1	9

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145	On the Thermocapillary Migration on Radially Microgrooved Surfaces. <i>Langmuir</i> , 2019, 35, 9169-9176.	3.5	9
146	Synthesis of GO-Fe ₃ O ₄ -based ferrofluid and its lubrication performances. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2020, 234, 1160-1167.	1.8	9
147	No migration of ionic liquid under temperature gradient. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 497, 167-170.	4.7	8
148	Controlling direct contact force for wet adhesion with different wedged film stabilities. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 165305.	2.8	8
149	An Equivalent Damping Numerical Prediction Method for the Ring Damper Used in Gears under Axial Vibration. <i>Symmetry</i> , 2019, 11, 1469.	2.2	8
150	Liquid-gas support and lubrication based on a ferrofluid seal. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 025002.	2.8	8
151	Direct detection of wear conditions by classification of ferrograph images. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020, 42, 1.	1.6	8
152	Experimental investigation of the effect of typical surface texture patterns on mechanical seal performance. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020, 42, 1.	1.6	8
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