

W Gregory Sawyer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4531635/publications.pdf>

Version: 2024-02-01

204
papers

12,118
citations

25423

59
h-index

35168

102
g-index

207
all docs

207
docs citations

207
times ranked

10545
citing authors

#	ARTICLE	IF	CITATIONS
1	3D In Vitro Platform for Cell and Explant Culture in Liquid-like Solids. <i>Cells</i> , 2022, 11, 967.	1.8	6
2	CAR T Cell Locomotion in Solid Tumor Microenvironment. <i>Cells</i> , 2022, 11, 1974.	1.8	15
3	Amphiphilic gel lubrication and the solvophilic transition. <i>Biotribology</i> , 2021, 26, 100170.	0.9	3
4	Leonardo da Vinci on Wear. <i>Biotribology</i> , 2021, 26, 100160.	0.9	7
5	Ex vivo SARS-CoV-2 infection of human lung reveals heterogeneous host defense and therapeutic responses. <i>JCI Insight</i> , 2021, 6, .	2.3	26
6	Superficial Modulus, Water-Content, and Mesh-Size at Hydrogel Surfaces. <i>Tribology Letters</i> , 2021, 69, 1.	1.2	8
7	Gel-Forming Mucin Improves Lubricity Across Model Gemini Epithelial Cell Interfaces. <i>Tribology Letters</i> , 2021, 69, 1.	1.2	4
8	Surface Gel Layers Reduce Shear Stress and Damage of Corneal Epithelial Cells. <i>Tribology Letters</i> , 2020, 68, 1.	1.2	16
9	Adult immuno-oncology: using past failures to inform the future. <i>Neuro-Oncology</i> , 2020, 22, 1249-1261.	0.6	19
10	Soft Textured Implants: Roughness, Friction, and the Complications. <i>Biotribology</i> , 2020, 22, 100127.	0.9	8
11	Quantitative characterization of 3D bioprinted structural elements under cell generated forces. <i>Nature Communications</i> , 2019, 10, 3029.	5.8	73
12	Friction-Induced Apoptosis. <i>Tribology Letters</i> , 2019, 67, 1.	1.2	8
13	Temperature-Dependent Friction of Gemini Hydrogels. <i>Tribology Letters</i> , 2019, 67, 1.	1.2	6
14	Hydration Control of Gel-Adhesion and Muco-Adhesion. <i>Langmuir</i> , 2019, 35, 15769-15775.	1.6	9
15	Normal Load Scaling of Friction in Gemini Hydrogels. <i>Biotribology</i> , 2018, 13, 30-35.	0.9	34
16	Polyelectrolyte scaling laws for microgel yielding near jamming. <i>Soft Matter</i> , 2018, 14, 1559-1570.	1.2	42
17	In Situ Measurements of Contact Dynamics in Speed-dependent Hydrogel Friction. <i>Biotribology</i> , 2018, 13, 23-29.	0.9	26
18	Effect of silicon and oxygen dopants on the stability of hydrogenated amorphous carbon under harsh environmental conditions. <i>Carbon</i> , 2018, 130, 127-136.	5.4	45

#	ARTICLE	IF	CITATIONS
19	Considerations for Biotribometers: Cells, Gels, and Tissues. Tribology Letters, 2018, 66, 1.	1.2	16
20	Commercially available microgels for 3D bioprinting. Bioprinting, 2018, 11, e00037.	2.9	36
21	The contact mechanics challenge: tribology meets soft matter. Soft Matter, 2018, 14, 5706-5709.	1.2	6
22	Lubricity of High Water Content Aqueous Gels. Tribology Letters, 2018, 66, 1.	1.2	30
23	Friction-Induced Inflammation. Tribology Letters, 2018, 66, 1.	1.2	37
24	The effect of surface roughness and viscoelasticity on rubber adhesion. Soft Matter, 2017, 13, 3602-3621.	1.2	89
25	Polymer Osmotic Pressure in Hydrogel Contact Mechanics. Biotribology, 2017, 11, 3-7.	0.9	50
26	Spherically capped membrane probes for low contact pressure tribology. Biotribology, 2017, 11, 69-72.	0.9	16
27	Self-assembled micro-organogels for 3D printing silicone structures. Science Advances, 2017, 3, e1602800.	4.7	195
28	A Confocal Fluorescence Microscopy Method for Measuring Mucous Layer Growth on Living Corneal Epithelia. Biotribology, 2017, 11, 73-76.	0.9	7
29	Corneal cell friction: Survival, lubricity, tear films, and mucin production over extended duration in vitro studies. Biotribology, 2017, 11, 77-83.	0.9	32
30	Elastic modulus and hydraulic permeability of MDCK monolayers. Journal of Biomechanics, 2017, 53, 210-213.	0.9	26
31	Lubricous Hydrogel Surface Coatings on Polydimethylsiloxane (PDMS). Tribology Letters, 2017, 65, 1.	1.2	20
32	Contact and Deformation of Randomly Rough Surfaces with Varying Root-Mean-Square Gradient. Tribology Letters, 2017, 65, 1.	1.2	17
33	Meeting the Contact-Mechanics Challenge. Tribology Letters, 2017, 65, 1.	1.2	232
34	Deformation Measurements of Randomly Rough Surfaces. Tribology Letters, 2017, 65, 1.	1.2	9
35	Contact Measurements of Randomly Rough Surfaces. Tribology Letters, 2017, 65, 1.	1.2	28
36	Measuring Contact Mechanics Deformations Using DIC through a Transparent Medium. Experimental Mechanics, 2017, 57, 1445-1455.	1.1	8

#	ARTICLE	IF	CITATIONS
37	Three-dimensional printing with sacrificial materials for soft matter manufacturing. MRS Bulletin, 2017, 42, 571-577.	1.7	108
38	Challenges and opportunities in soft tribology. Tribology - Materials, Surfaces and Interfaces, 2017, 11, 180-186.	0.6	14
39	Eliminating the surface location from soft matter contact mechanics measurements. Tribology - Materials, Surfaces and Interfaces, 2017, 11, 187-192.	0.6	23
40	Superlubricity in Gemini Hydrogels. Journal of Tribology, 2016, 138, .	1.0	31
41	Lubricity from Entangled Polymer Networks on Hydrogels. Journal of Tribology, 2016, 138, .	1.0	22
42	Stability of High Speed 3D Printing in Liquid-Like Solids. ACS Biomaterials Science and Engineering, 2016, 2, 1796-1799.	2.6	57
43	Ultralow wear Perfluoroalkoxy (PFA) and alumina composites. Wear, 2016, 362-363, 179-185.	1.5	36
44	Temperature-Dependent Friction and Wear Behavior of PTFE and MoS ₂ . Tribology Letters, 2016, 63, 1.	1.2	47
45	Janus Blocks: A Binary System Wear Instability. Tribology Letters, 2016, 63, 1.	1.2	2
46	Traction and wear of an elastomer in combined rolling and sliding. Lubrication Science, 2016, 28, 97-106.	0.9	3
47	Liquid-like Solids Support Cells in 3D. ACS Biomaterials Science and Engineering, 2016, 2, 1787-1795.	2.6	124
48	Ultralow wear fluoropolymer composites: Nanoscale functionality from microscale fillers. Tribology International, 2016, 95, 245-255.	3.0	79
49	Paleo-tribology: development of wear measurement techniques and a three-dimensional model revealing how grinding dentitions self-wear to enable functionality. Surface Topography: Metrology and Properties, 2016, 4, 024001.	0.9	27
50	Mechanical properties derived from phase separation in co-polymer hydrogels. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 55, 286-294.	1.5	5
51	Multicellular density fluctuations in epithelial monolayers. Physical Review E, 2015, 92, 032729.	0.8	38
52	PTFE Tribology and the Role of Mechanochemistry in the Development of Protective Surface Films. Macromolecules, 2015, 48, 3739-3745.	2.2	216
53	Kinetics of aqueous lubrication in the hydrophilic hydrogel Gemini interface. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2015, 229, 889-894.	1.0	14
54	Interrupted Measurement Repositioning Using Elastic Averaging. Tribology Letters, 2015, 59, 1.	1.2	3

#	ARTICLE	IF	CITATIONS
55	Wear Debris Mobility, Aligned Surface Roughness, and the Low Wear Behavior of Filled Polytetrafluoroethylene. Tribology Letters, 2015, 60, 1.	1.2	21
56	Evolution and Wear of Fluoropolymer Transfer Films. Tribology Letters, 2015, 57, 1.	1.2	47
57	Ultralow Wear PTFE and Alumina Composites: It is All About Tribochemistry. Tribology Letters, 2015, 57, 1.	1.2	112
58	Wear biomechanics in the slicing dentition of the giant horned dinosaur <i>Triceratops</i> . Science Advances, 2015, 1, e1500055.	4.7	51
59	Effect of Temperature on the Friction and Wear of PTFE by Atomic-Level Simulation. Tribology Letters, 2015, 58, 1.	1.2	38
60	Mesh Size Control of Polymer Fluctuation Lubrication in Gemini Hydrogels. Biotribology, 2015, 1-2, 24-29.	0.9	100
61	Writing in the granular gel medium. Science Advances, 2015, 1, e1500655.	4.7	466
62	Complex Dental Structure and Wear Biomechanics in Hadrosaurid Dinosaurs. The Paleontological Society Special Publications, 2014, 13, 88-89.	0.0	0
63	Leonardo da Vinci's Friction Experiments: An Old Story Acknowledged and Repeated. Tribology Letters, 2014, 56, 509-515.	1.2	34
64	Mechanistic Studies in Friction and Wear of Bulk Materials. Annual Review of Materials Research, 2014, 44, 395-427.	4.3	108
65	Lessons from the Lollipop: Biotribology, Tribocorrosion, and Irregular Surfaces. Tribology Letters, 2014, 56, 273-280.	1.2	1
66	In Vacuo Tribological Behavior of Polytetrafluoroethylene (PTFE) and Alumina Nanocomposites: The Importance of Water for Ultralow Wear. Tribology Letters, 2014, 53, 189-197.	1.2	83
67	Evolution in Surfaces: Interaction of Topography with Contact Pressure During Wear of Composites Including Dinosaur Dentition. Tribology Letters, 2014, 54, 249-255.	1.2	15
68	Gemini Interfaces in Aqueous Lubrication with Hydrogels. Tribology Letters, 2014, 54, 59-66.	1.2	96
69	Polymer fluctuation lubrication in hydrogel gemini interfaces. Soft Matter, 2014, 10, 8955-8962.	1.2	77
70	L'Escargot Rapide: Soft Contacts at High Speeds. Tribology Letters, 2014, 55, 65-68.	1.2	5
71	Dynamic In Situ Measurements of Frictional Heating on an Isolated Surface Protrusion. Tribology Letters, 2014, 55, 205-210.	1.2	6
72	Polytetrafluoroethylene matrix nanocomposites for tribological applications. , 2013, , 571-617.		2

#	ARTICLE	IF	CITATIONS
73	Lubrication regimes in contact lens wear during a blink. Tribology International, 2013, 63, 45-50.	3.0	55
74	Intermolecular Forces, Adhesion, and the Elastic Foundation. Tribology Letters, 2013, 50, 245-260.	1.2	7
75	Friction Coefficient Measurement of an In Vivo Murine Cornea. Tribology Letters, 2013, 49, 145-149.	1.2	19
76	Plasmonic Diagnostics for Tribology: In Situ Observations Using Surface Plasmon Resonance in Combination with Surface-Enhanced Raman Spectroscopy. Tribology Letters, 2013, 49, 95-102.	1.2	18
77	Lubricity of Surface Hydrogel Layers. Tribology Letters, 2013, 49, 371-378.	1.2	96
78	In situ thermal measurements of sliding contacts. Tribology International, 2013, 62, 208-214.	3.0	66
79	Adhesion: role of bulk viscoelasticity and surface roughness. Journal of Physics Condensed Matter, 2013, 25, 225004.	0.7	49
80	Static or breakloose friction for lubricated contacts: the role of surface roughness and dewetting. Journal of Physics Condensed Matter, 2013, 25, 445013.	0.7	29
81	Three-dimensional visualization of nanoscale structure and deformation. Journal of Materials Research, 2013, 28, 2637-2643.	1.2	1
82	Complex Dental Structure and Wear Biomechanics in Hadrosaurid Dinosaurs. Science, 2012, 338, 98-101.	6.0	99
83	Influence of surface passivation on the friction and wear behavior of ultrananocrystalline diamond and tetrahedral amorphous carbon thin films. Physical Review B, 2012, 85, .	1.1	184
84	In situ surface hardening during turning via pyrolytic carburization. Precision Engineering, 2012, 36, 668-672.	1.8	2
85	Cell friction. Faraday Discussions, 2012, 156, 31.	1.6	26
86	Elastic contact mechanics: Percolation of the contact area and fluid squeeze-out. European Physical Journal E, 2012, 35, 5.	0.7	49
87	Reply to the "Discussion of the Paper by Krick et al.: Optical In Situ Micro Tribometer for Analysis of Real Contact Area for Contact Mechanics, Adhesion, and Sliding Experiments" Tribology Letters, 2012, 46, 207-209.	1.2	2
88	Frictional Voltammetry with Copper. Tribology Letters, 2012, 46, 337-342.	1.2	12
89	Data-Driven Model for Estimation of Friction Coefficient Via Informatics Methods. Tribology Letters, 2012, 47, 211-221.	1.2	28
90	Environmental dependence of ultra-low wear behavior of polytetrafluoroethylene (PTFE) and alumina composites suggests tribochemical mechanisms. Tribology International, 2012, 51, 42-46.	3.0	138

#	ARTICLE	IF	CITATIONS
91	Low wear metal sliding electrical contacts at high current density. <i>Wear</i> , 2012, 274-275, 229-237.	1.5	37
92	Design of Low Wear Polymer Composites. <i>Tribology Letters</i> , 2012, 45, 79-87.	1.2	7
93	Optical In Situ Micro Tribometer for Analysis of Real Contact Area for Contact Mechanics, Adhesion, and Sliding Experiments. <i>Tribology Letters</i> , 2012, 45, 185-194.	1.2	170
94	Effect of Fluorocarbon Molecules Confined between Sliding Self-Mated PTFE Surfaces. <i>Langmuir</i> , 2011, 27, 9910-9919.	1.6	9
95	Energetics of Oxidation in MoS ₂ Nanoparticles by Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10606-10616.	1.5	55
96	Lateral Contact Stiffness and the Elastic Foundation. <i>Tribology Letters</i> , 2011, 41, 17-21.	1.2	12
97	Space Tribometers: Design for Exposed Experiments on Orbit. <i>Tribology Letters</i> , 2011, 41, 303-311.	1.2	36
98	Uncertainty in Pin-on-Disk Wear Volume Measurements Using Surface Scanning Techniques. <i>Tribology Letters</i> , 2011, 42, 129-131.	1.2	30
99	Influence of the Molecular Level Structure of Polyethylene and Polytetrafluoroethylene on Their Tribological Response. <i>Tribology Letters</i> , 2011, 42, 193-201.	1.2	25
100	Environmental Effects on the Tribology and Microstructure of MoS ₂ /Sb ₂ O ₃ /C Films. <i>Tribology Letters</i> , 2011, 42, 203-213.	1.2	40
101	A Raman Spectroscopic Study of MoS ₂ and MoO ₃ : Applications to Tribological Systems. <i>Tribology Letters</i> , 2011, 42, 301-310.	1.2	575
102	Near-Edge X-ray Absorption Fine Structure Imaging of Spherical and Flat Counterfaces of Ultrananocrystalline Diamond Tribological Contacts: A Correlation of Surface Chemistry and Friction. <i>Tribology Letters</i> , 2011, 44, 99-106.	1.2	27
103	Polytetrafluoroethylene (PTFE) fiber reinforced polyetheretherketone (PEEK) composites. <i>Wear</i> , 2011, 270, 737-741.	1.5	74
104	Comparison Between Elastic Foundation and Contact Force Models in Wear Analysis of Planar Multibody System. <i>Journal of Tribology</i> , 2010, 132, .	1.0	47
105	High-Temperature Vapor Phase Lubrication Using Carbonaceous Gases. <i>Tribology Letters</i> , 2010, 40, 3-9.	1.2	13
106	Energy, Adhesion, and the Elastic Foundation. <i>Tribology Letters</i> , 2010, 37, 453-461.	1.2	15
107	Nanomechanical Probes of Single Corneal Epithelial Cells: Shear Stress and Elastic Modulus. <i>Tribology Letters</i> , 2010, 38, 107-113.	1.2	19
108	A Little Analysis of Errors in Friction for Small Wear Tracks. <i>Tribology Letters</i> , 2010, 39, 221-222.	1.2	6

#	ARTICLE	IF	CITATIONS
109	Edges, clearances, and wear: Little things that make big differences in bushing friction. <i>Wear</i> , 2010, 268, 41-49.	1.5	10
110	Asymmetric wear behavior of self-mated copper fiber brush and slip-ring sliding electrical contacts in a humid carbon dioxide environment. <i>Wear</i> , 2010, 268, 455-463.	1.5	34
111	Analysis of planar multibody systems with revolute joint wear. <i>Wear</i> , 2010, 268, 643-652.	1.5	142
112	Copper-beryllium metal fiber brushes in high current density sliding electrical contacts. <i>Wear</i> , 2010, 268, 1230-1236.	1.5	50
113	Thermal dependence of the wear of molybdenum disulphide coatings. <i>Wear</i> , 2010, 269, 719-723.	1.5	43
114	Zhao et al. Reply. <i>Physical Review Letters</i> , 2010, 105, .	2.9	2
115	Mechanical Response of Living Cells to Contacting Shear Forces. <i>Studies in Mechanobiology, Tissue Engineering and Biomaterials</i> , 2010, , 125-141.	0.7	0
116	Modeling a Slider-Crank Mechanism With Joint Wear. <i>SAE International Journal of Passenger Cars - Mechanical Systems</i> , 2009, 2, 600-612.	0.4	6
117	Transition from Thermal to Athermal Friction under Cryogenic Conditions. <i>Physical Review Letters</i> , 2009, 102, 186102.	2.9	73
118	Temperature and Water Vapor Pressure Effects on the Friction Coefficient of Hydrogenated Diamondlike Carbon Films. <i>Journal of Tribology</i> , 2009, 131, .	1.0	17
119	Passivation oxide controlled selective carbon nanotube growth on metal substrates. <i>Nanotechnology</i> , 2009, 20, 085302.	1.3	26
120	The effect of normal load on polytetrafluoroethylene tribology. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 144201.	0.7	28
121	Carbon-Nanotube-Based Electrical Brush Contacts. <i>Advanced Materials</i> , 2009, 21, 2054-2058.	11.1	73
122	Closed channel fabrication using micromolding of metallic glass. <i>Journal of Materials Processing Technology</i> , 2009, 209, 4765-4768.	3.1	8
123	Addressing Practical Challenges of Low Friction Coefficient Measurements. <i>Tribology Letters</i> , 2009, 35, 17-23.	1.2	111
124	Measurement Uncertainties in Wear Rates. <i>Tribology Letters</i> , 2009, 36, 81-87.	1.2	66
125	Numerical integration schemes and parallel computation for wear prediction using finite element method. <i>Wear</i> , 2009, 266, 822-831.	1.5	106
126	High current density copper-on-copper sliding electrical contacts at low sliding velocities. <i>Wear</i> , 2009, 267, 417-424.	1.5	50

#	ARTICLE	IF	CITATIONS
127	A route to wear resistant PTFE via trace loadings of functionalized nanofillers. <i>Wear</i> , 2009, 267, 653-660.	1.5	94
128	Multifunctionality of single-walled carbon nanotube/polytetrafluoroethylene nanocomposites. <i>Wear</i> , 2009, 267, 619-624.	1.5	72
129	In situ graphite lubrication of metallic sliding electrical contacts. <i>Wear</i> , 2009, 267, 1462-1469.	1.5	26
130	Material Property Identification and Sensitivity Analysis Using Micro-Indentation. <i>Journal of Tribology</i> , 2009, 131, .	1.0	4
131	Mechanical characterization of contact lenses by microindentation: Constant velocity and relaxation testing. <i>Acta Biomaterialia</i> , 2008, 4, 1560-1568.	4.1	18
132	Friction Coefficient Measurement of Hydrogel Materials on Living Epithelial Cells. <i>Tribology Letters</i> , 2008, 30, 13-19.	1.2	61
133	A Possible Link Between Macroscopic Wear and Temperature Dependent Friction Behaviors of MoS ₂ Coatings. <i>Tribology Letters</i> , 2008, 32, 91-98.	1.2	64
134	A novel method for low load friction testing on living cells. <i>Biotechnology Letters</i> , 2008, 30, 801-806.	1.1	18
135	Hierarchically constructed metal foam/polymer composite for high thermal conductivity. <i>Wear</i> , 2008, 264, 374-380.	1.5	17
136	Tribological investigation of the effects of particle size, loading and crystallinity on poly(ethylene) terephthalate nanocomposites. <i>Wear</i> , 2008, 264, 632-637.	1.5	45
137	Spatial geometric effects on the friction coefficients of UHMWPe. <i>Wear</i> , 2008, 264, 648-653.	1.5	14
138	Effect of Particle Size on the Wear Resistance of Alumina-Filled PTFE Micro- and Nanocomposites. <i>Tribology Transactions</i> , 2008, 51, 247-253.	1.1	129
139	The Electrical Contact Resistance of Two Rough Surfaces with Varying Phase Conductivity. , 2008, , .		1
140	Polytetrafluoroethylene matrix nanocomposites for tribological applications. <i>Tribology and Interface Engineering Series</i> , 2008, , 403-438.	0.0	10
141	Predicting Knee Replacement Damage in a Simulator Machine Using a Computational Model With a Consistent Wear Factor. <i>Journal of Biomechanical Engineering</i> , 2008, 130, 011004.	0.6	50
142	Electrical Switching Using Compliant Metal Infiltrated Multi-Wall Nanotube Arrays. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1085, 20501.	0.1	2
143	Observing Interfacial Sliding Processes in Solid/Solid Contacts. <i>MRS Bulletin</i> , 2008, 33, 1159-1167.	1.7	45
144	Integrating experimental and simulation length and time scales in mechanistic studies of friction. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 354012.	0.7	9

#	ARTICLE	IF	CITATIONS
145	Accessing Inaccessible Interfaces: <i>In Situ</i> Approaches to Materials Tribology. MRS Bulletin, 2008, 33, 1145-1150.	1.7	71
146	Origin of Ultralow Friction and Wear in Ultrananocrystalline Diamond. Physical Review Letters, 2008, 100, 235502.	2.9	211
147	Determination of static potential energy surfaces for atomic friction in MoS_2 and MoO_3	1.1	106
148	Dynamic Modeling of a Slider-Crank Mechanism Under Joint Wear. , 2008, , .		8
149	Environmental Performance Limits of Ultrananocrystalline Diamond Films. , 2008, , .		1
150	Effect of the sliding orientation on the tribological properties of polyethylene in molecular dynamics simulations. Journal of Applied Physics, 2008, 103, 083502.	1.1	33
151	Sliding orientation effects on the tribological properties of polytetrafluoroethylene. Journal of Applied Physics, 2007, 102, .	1.1	54
152	Direct Contact-Area Computation for MEMS Using Real Topographic Surface Data. Journal of Microelectromechanical Systems, 2007, 16, 1263-1268.	1.7	16
153	Micromolding three-dimensional amorphous metal structures. Journal of Materials Research, 2007, 22, 339-343.	1.2	37
154	A Biphasic Model for Micro-Indentation of a Hydrogel-Based Contact Lens. Journal of Biomechanical Engineering, 2007, 129, 156-163.	0.6	38
155	Lyapunov-Based Tracking Control in the Presence of Uncertain Nonlinear Parameterizable Friction. IEEE Transactions on Automatic Control, 2007, 52, 1988-1994.	3.6	212
156	Polymeric Nanocomposites for Tribological Applications. Macromolecular Materials and Engineering, 2007, 292, 387-402.	1.7	226
157	Tribological results of PEEK nanocomposites in dry sliding against 440C in various gas environments. Wear, 2007, 262, 1511-1515.	1.5	43
158	Tribological behavior of PEEK components with compositionally graded PEEK/PTFE surfaces. Wear, 2007, 262, 220-224.	1.5	86
159	Cumulative damage modeling of solid lubricant coatings that experience wear and interfacial fatigue. Wear, 2007, 262, 1490-1495.	1.5	20
160	Thermally Activated Friction. Tribology Letters, 2007, 27, 113-117.	1.2	92
161	Macroscopic Friction Coefficient Measurements on Living Endothelial Cells. Tribology Letters, 2007, 27, 233-238.	1.2	58
162	Macroscopic Evidence of Thermally Activated Friction with Polytetrafluoroethylene. Tribology Letters, 2007, 27, 323-328.	1.2	29

#	ARTICLE	IF	CITATIONS
163	Effect of simulation conditions on friction in polytetrafluoroethylene (PTFE). <i>Journal of Computer-Aided Materials Design</i> , 2007, 14, 239-246.	0.7	13
164	Polymer nanocomposites: A small part of the story. <i>Jom</i> , 2007, 59, 53-60.	0.9	229
165	Shrink fit tool holder connection stiffness/damping modeling for frequency response prediction in milling. <i>International Journal of Machine Tools and Manufacture</i> , 2007, 47, 1368-1380.	6.2	116
166	Tunable friction behavior of oriented carbon nanotube films. <i>Tribology Letters</i> , 2006, 24, 85-90.	1.2	74
167	Improved wear resistance in alumina-PTFE nanocomposites with irregular shaped nanoparticles. <i>Wear</i> , 2006, 260, 915-918.	1.5	217
168	On the friction and wear performance of boric acid lubricant combinations in extended duration operations. <i>Wear</i> , 2006, 260, 1295-1304.	1.5	92
169	A low friction and ultra low wear rate PEEK/PTFE composite. <i>Wear</i> , 2006, 261, 410-418.	1.5	248
170	Epoxy, ZnO, and PTFE nanocomposite: friction and wear optimization. <i>Tribology Letters</i> , 2006, 22, 253-257.	1.2	54
171	In Situ Lubrication with Boric Acid: Powder Delivery of an Environmentally Benign Solid Lubricant. <i>Tribology Transactions</i> , 2006, 49, 284-290.	1.1	40
172	Computational Wear Prediction of UHMWPE in Knee Replacements. <i>Journal of ASTM International</i> , 2006, 3, 100259.	0.2	8
173	Computational wear prediction of a total knee replacement from in vivo kinematics. <i>Journal of Biomechanics</i> , 2005, 38, 305-314.	0.9	148
174	Tribological Sensitivity of PTFE/Alumina Nanocomposites to a Range of Traditional Surface Finishes. <i>Tribology Transactions</i> , 2005, 48, 147-153.	1.1	122
175	Effect of matrix morphology on the wear and friction behavior of alumina nanoparticle/poly(ethylene) terephthalate composites. <i>Wear</i> , 2005, 258, 1437-1443.	1.5	121
176	Finite element analysis and experiments of metal/metal wear in oscillatory contacts. <i>Wear</i> , 2005, 258, 1787-1793.	1.5	103
177	Frictional anisotropy of oriented carbon nanotube surfaces. <i>Tribology Letters</i> , 2005, 18, 59-62.	1.2	136
178	Wear resistant solid lubricant coating made from PTFE and epoxy. <i>Tribology Letters</i> , 2005, 18, 119-124.	1.2	64
179	Friction coefficient of soft contact lenses: measurements and modeling. <i>Tribology Letters</i> , 2005, 18, 499-504.	1.2	136
180	Cryogenic Friction Behavior of PTFE based Solid Lubricant Composites. <i>Tribology Letters</i> , 2005, 20, 109-113.	1.2	74

#	ARTICLE	IF	CITATIONS
181	BIOMECHANICAL MECHANISMS FOR DAMAGE: RETRIEVAL ANALYSIS AND COMPUTATIONAL WEAR PREDICTIONS IN TOTAL KNEE REPLACEMENTS. <i>Journal of Mechanics in Medicine and Biology</i> , 2005, 05, 469-475.	0.3	4
182	Quantifying Multidirectional Sliding Motions in Total Knee Replacements. <i>Journal of Tribology</i> , 2005, 127, 280-286.	1.0	53
183	A Gas-Surface Interaction Model for Spatial and Time-Dependent Friction Coefficient in Reciprocating Contacts: Applications to Near-Frictionless Carbon. <i>Journal of Tribology</i> , 2005, 127, 82-88.	1.0	26
184	The Difficulty of Measuring Low Friction: Uncertainty Analysis for Friction Coefficient Measurements. <i>Journal of Tribology</i> , 2005, 127, 673-678.	1.0	121
185	Super-Compressible Foamlike Carbon Nanotube Films. <i>Science</i> , 2005, 310, 1307-1310.	6.0	743
186	Wear-Rate Uncertainty Analysis. <i>Journal of Tribology</i> , 2004, 126, 802-808.	1.0	87
187	A fractional coverage model for gas-surface interaction in reciprocating sliding contacts. <i>Wear</i> , 2004, 256, 73-80.	1.5	10
188	Surface Shape and Contact Pressure Evolution in Two Component Surfaces: Application to Copper Chemical Mechanical Polishing. <i>Tribology Letters</i> , 2004, 17, 139-145.	1.2	24
189	Evolution of Wear in a Two-Dimensional Bushing. <i>Tribology Transactions</i> , 2004, 47, 257-262.	1.1	21
190	Fractional Coverage Model for the Adsorption and Removal of Gas Species and Application to Superlow Friction Diamond-Like Carbon. <i>Journal of Tribology</i> , 2004, 126, 615-619.	1.0	34
191	Temperature Modeling in a Total Knee Joint Replacement Using Patient-Specific Kinematics. <i>Tribology Letters</i> , 2003, 15, 343-351.	1.2	15
192	A study on the friction and wear behavior of PTFE filled with alumina nanoparticles. <i>Wear</i> , 2003, 254, 573-580.	1.5	516
193	Estimation of discretization errors in contact pressure measurements. <i>Journal of Biomechanics</i> , 2003, 36, 609-613.	0.9	28
194	Evaluation of a Model for the Evolution of Wear in a Scotch-Yoke Mechanism. <i>Journal of Tribology</i> , 2003, 125, 678-681.	1.0	18
195	The Evolution of Geometry for a Wearing Circular Cam: Analytical and Computer Simulation With Comparison to Experiment. <i>Journal of Tribology</i> , 2003, 125, 187-192.	1.0	33
196	Geometric effects in high-temperature vapour-phase lubrication using hydrocarbon feed gases. <i>Lubrication Science</i> , 2002, 14, 131-145.	0.9	0
197	Vapor-Phase Lubrication in Combined Rolling and Sliding Contacts: Modeling and Experimentation. <i>Journal of Tribology</i> , 2001, 123, 572-581.	1.0	22
198	Differential application of wear models to fractional thin films. <i>Wear</i> , 2001, 251, 1003-1008.	1.5	17

#	ARTICLE	IF	CITATIONS
199	Lubrication With Granular Flow: Continuum Theory, Particle Simulations, Comparison With Experiment. <i>Journal of Tribology</i> , 2001, 123, 777-784.	1.0	31
200	Comparison of various C ₂ H _x for high-temperature lubrication by in situ pyrolysis. <i>Lubrication Science</i> , 2000, 12, 169-184.	0.9	4
201	High temperature lubrication of various ceramics and metal alloys via directed hydrocarbon feed gases. <i>Wear</i> , 1998, 214, 131-138.	1.5	19
202	Non-Newtonian Lubrication With the Second-Order Fluid. <i>Journal of Tribology</i> , 1998, 120, 622-628.	1.0	19
203	Lubrication of Silicon Nitride in a Simulated Turbine Exhaust Gas Environment. <i>Tribology Transactions</i> , 1997, 40, 374-380.	1.1	8
204	Design Theory and Computational Modeling Tools for Systems with Wear. , 0, , .		2