Hugh A Spikes

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1077226/publications.pdf

Version: 2024-02-01

244 papers	10,772 citations	25034 57 h-index	48315 88 g-index
246 all docs	246 docs citations	246 times ranked	3167 citing authors

#	Article	IF	Citations
1	The Measurement and Study of Very Thin Lubricant Films in Concentrated Contacts. Tribology Transactions, 1991, 34, 187-194.	2.0	448
2	Friction Modifier Additives. Tribology Letters, 2015, 60, 1.	2.6	388
3	Lowâ€•and zeroâ€sulphated ash, phosphorus and sulphur antiâ€wear additives for engine oils. Lubrication Science, 2008, 20, 103-136.	2.1	216
4	On the Mechanism of ZDDP Antiwear Film Formation. Tribology Letters, 2016, 63, 1.	2.6	206
5	The Development of a Spacer Layer Imaging Method (SLIM) for Mapping Elastohydrodynamic Contacts. Tribology Transactions, 1996, 39, 915-921.	2.0	202
6	Mechanism of Action of Colloidal Solid Dispersions. Journal of Tribology, 2003, 125, 552-557.	1.9	194
7	Entrainment and Inlet Suction: Two Mechanisms of Hydrodynamic Lubrication in Textured Bearings. Journal of Tribology, 2007, 129, 336-347.	1.9	186
8	Equation for Slip of Simple Liquids at Smooth Solid Surfaces. Langmuir, 2003, 19, 5065-5071.	3.5	153
9	Friction-Enhancing Properties of ZDDP Antiwear Additive: Part Iâ€"Friction and Morphology of ZDDP Reaction Films. Tribology Transactions, 2003, 46, 303-309.	2.0	142
10	The Influence of Molecular Architecture on the Macroscopic Lubrication Properties of the Brush-Like Co-polyelectrolyte Poly(L-lysine)-g-poly(ethylene glycol) (PLL-g-PEG) Adsorbed on Oxide Surfaces. Tribology Letters, 2003, 15, 395-405.	2.6	139
11	The formation of zinc dithiophosphate antiwear films. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2004, 218, 265-278.	1.8	139
12	Behaviour of boundary lubricating additives on DLC coatings. Wear, 2008, 265, 1893-1901.	3.1	138
13	Title is missing!. Tribology Letters, 2003, 15, 231-239.	2.6	136
14	The half-wetted bearing. Part 1: Extended Reynolds equation. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2003, 217, 1-14.	1.8	132
15	Friction and Wear Behavior of Zinc Dialkyldithiophosphate Additive. Tribology Transactions, 2000, 43, 469-479.	2.0	122
16	Mixed lubrication â€" an overview. Lubrication Science, 1997, 9, 221-253.	2.1	117
17	Sixty years of EHL. Lubrication Science, 2006, 18, 265-291.	2.1	115
18	Film thickness and roughness of ZDDP antiwear films. Tribology Letters, 2007, 26, 161-171.	2.6	115

#	Article	IF	Citations
19	The Friction Reducing Properties of Molybdenum Dialkyldithiocarbamate Additives: Part I â€" Factors Influencing Friction Reduction. Tribology Transactions, 2001, 44, 626-636.	2.0	114
20	Tribological properties of tribofilms formed from ZDDP in DLC/DLC and DLC/steel contacts. Tribology International, 2011, 44, 165-174.	5.9	112
21	Study of Zinc Dialkydithiophosphate Antiwear Film Formation and Removal Processes, Part I: Experimental. Tribology Transactions, 2005, 48, 558-566.	2.0	111
22	Boundary Film Formation by Viscosity Index Improvers. Tribology Transactions, 1996, 39, 726-734.	2.0	108
23	Stress-augmented thermal activation: Tribology feels the force. Friction, 2018, 6, 1-31.	6.4	108
24	History, Origins and Prediction of Elastohydrodynamic Friction. Tribology Letters, 2014, 56, 1-25.	2.6	105
25	Nonequilibrium Molecular Dynamics Simulations of Organic Friction Modifiers Adsorbed on Iron Oxide Surfaces. Langmuir, 2016, 32, 4450-4463.	3.5	105
26	On the Commonality Between Theoretical Models for Fluid and Solid Friction, Wear and Tribochemistry. Tribology Letters, 2015, 59, 1.	2.6	99
27	A Low Friction Bearing Based on Liquid Slip at the Wall. Journal of Tribology, 2007, 129, 611-620.	1.9	98
28	On the Increase in Boundary Friction with Sliding Speed. Tribology Letters, 2012, 48, 237-248.	2.6	97
29	A Comparison of Classical Force-Fields for Molecular Dynamics Simulations of Lubricants. Materials, 2016, 9, 651.	2.9	96
30	â€˜Inlet suctionâ€™, a load support mechanism in non-convergent, pocketed, hydrodynamic bearings. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2006, 220, 105-108.	1.8	95
31	Behaviour of MoDTC in DLC/DLC and DLC/steel contacts. Tribology International, 2012, 54, 68-76.	5.9	92
32	The half-wetted bearing. Part 2: Potential application in low load contacts. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2003, 217, 15-26.	1.8	89
33	The effect of emulsifier concentration on the lubricating properties of oil-in-water emulsions. Tribology Letters, 2006, 22, 53-65.	2.6	89
34	Tribology research in the twenty-first century. Tribology International, 2001, 34, 789-799.	5.9	86
35	Boundary Film Formation by Lubricant Base Fluids. Tribology Transactions, 1996, 39, 448-454.	2.0	82
36	The Behavior of Suspended Solid Particles in Rolling and Sliding Elastohydrodynamic Contacts. Tribology Transactions, 1988, 31, 12-21.	2.0	80

#	Article	IF	Citations
37	The Behaviour of Lubricants in Contacts: Current Understanding and Future Possibilities. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 1994, 208, 3-15.	1.8	80
38	EHD Film Thickness in Non-Steady State Contacts. Journal of Tribology, 1998, 120, 442-452.	1.9	80
39	Friction Modifier Additives, Synergies and Antagonisms. Tribology Letters, 2019, 67, 1.	2.6	79
40	Study of Zinc Dialkyldithiophosphate Antiwear Film Formation and Removal Processes, Part II: Kinetic Model. Tribology Transactions, 2005, 48, 567-575.	2.0	77
41	The Formation of Viscous Surface Films by Polymer Solutions: Boundary or Elastohydrodynamic Lubrication?. Tribology Transactions, 1996, 39, 720-725.	2.0	76
42	Film Thickness and Friction of ZDDP Tribofilms. Tribology Letters, 2019, 67, 1.	2.6	75
43	The Design of Boundary Film-Forming PMA Viscosity Modifiers. Tribology Transactions, 2006, 49, 225-232.	2.0	74
44	In Lubro Studies of Lubricants in EHD Contacts Using FTIR Absorption Spectroscopy. Tribology Transactions, 1991, 34, 248-256.	2.0	73
45	Lubricant Film Thickness in Rough Surface, Mixed Elastohydrodynamic Contact. Journal of Tribology, 2000, 122, 65-76.	1.9	72
46	Additive-additive and additive-surface interactions in lubrication. Lubrication Science, 1989, 2, 3-23.	2.1	69
47	Title is missing!. Tribology Letters, 2001, 11, 71-81.	2.6	69
48	Reduction of Friction by Functionalised Viscosity Index Improvers. Tribology Letters, 2007, 28, 287-298.	2.6	68
49	CFD Modeling of a Thermal and Shear-Thinning Elastohydrodynamic Line Contact. Journal of Tribology, 2008, 130, .	1.9	68
50	The Elastohydrodynamic Friction and Film Forming Properties of Lubricant Base Oils. Tribology Transactions, 1999, 42, 559-569.	2.0	67
51	In Situ Study of Model Organic Friction Modifiers Using Liquid Cell AFM; Saturated and Mono-unsaturated Carboxylic Acids. Tribology Letters, 2015, 57, 1.	2.6	67
52	Infrared and Visual Study of the Mechanisms of Scuffing. Tribology Transactions, 1996, 39, 441-447.	2.0	65
53	Friction properties of DLC/DLC contacts in base oil. Tribology International, 2011, 44, 922-932.	5.9	65
54	Prediction of traction in elastohydrodynamic lubrication. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 1998, 212, 321-332.	1.8	63

#	Article	IF	Citations
55	Performance of Friction Modifiers on ZDDP-Generated Surfaces. Tribology Transactions, 2007, 50, 328-335.	2.0	63
56	Film-forming additives - direct and indirect ways to reduce friction. Lubrication Science, 2002, 14, 147-167.	2.1	59
57	Basics of mixed lubrication. Lubrication Science, 2003, 16, 1-28.	2.1	59
58	The development and application of the spacer layer imaging method for measuring lubricant film thickness. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2001, 215, 261-277.	1.8	58
59	Mechanochemistry of Zinc Dialkyldithiophosphate on Steel Surfaces under Elastohydrodynamic Lubrication Conditions. ACS Applied Materials & Interfaces, 2020, 12, 6662-6676.	8.0	58
60	Elastohydrodynamic film thickness of soft EHL contacts using optical interferometry. Tribology International, 2016, 99, 267-277.	5.9	57
61	Friction-Enhancing Properties of ZDDP Antiwear Additive: Part IIâ€"Influence of ZDDP Reaction Films on EHD Lubrication. Tribology Transactions, 2003, 46, 310-314.	2.0	56
62	Influence of hydrogen and tungsten concentration on the tribological properties of DLC/DLC contacts with ZDDP. Wear, 2013, 298-299, 109-119.	3.1	56
63	The Control of Friction by Molecular Fractionation of Base Fluid Mixtures at Metal Surfaces. Tribology Transactions, 1997, 40, 461-469.	2.0	55
64	The influence of soot and dispersant on ZDDP film thickness and friction. Lubrication Science, 2004, 17, 25-43.	2.1	55
65	Adsorption of Organic Friction Modifier Additives. Langmuir, 2020, 36, 1147-1155.	3.5	54
66	The Behavior of Colloidal Solid Particles in Elastohydrodynamic Contacts. Tribology Transactions, 2000, 43, 387-394.	2.0	52
67	The Relationship Between Friction and Film Thickness in EHD Point Contacts in the Presence of Longitudinal Roughness. Tribology Letters, 2016, 64, 1.	2.6	52
68	The Influence of Electrochemical Potentials on the Friction and Wear of Iron and Iron Oxides in Aqueous Systems. Tribology Transactions, 1994, 37, 811-819.	2.0	51
69	On the effect of confined fluid molecular structure on nonequilibrium phase behaviour and friction. Physical Chemistry Chemical Physics, 2017, 19, 17883-17894.	2.8	51
70	Additive Interference in Dibenzyl Disulfide Extreme Pressure Lubrication. ASLE Transactions, 1974, 17, 283-289.	0.6	49
71	Elastohydrodynamic film formation at the start-up of the motion. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2001, 215, 125-138.	1.8	49
72	Thermal Conductivity and Flash Temperature. Tribology Letters, 2019, 67, 1.	2.6	49

#	Article	IF	Citations
73	An Investigation of Lubricant Film Thickness in Sliding Compliant Contacts. Tribology Transactions, 2010, 53, 684-694.	2.0	48
74	Optimizing Film Formation by Oil-in-Water Emulsions. Tribology Transactions, 1997, 40, 569-578.	2.0	47
75	The Effects of Three-Dimensional Model Surface Roughness Features on Lubricant Film Thickness in EHL Contacts. Journal of Tribology, 2003, 125, 533-542.	1.9	47
76	Rolling and sliding friction in compliant, lubricated contact. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2006, 220, 55-63.	1.8	47
77	Film Forming and Friction Properties of Overbased Calcium Sulphonate Detergents. Tribology Letters, 2008, 29, 33-44.	2.6	47
78	Effect of Base Oil Structure on Elastohydrodynamic Friction. Tribology Letters, 2017, 65, 1.	2.6	47
79	Thick Film Formation by Zinc Dialkyldithiophosphates. ASLE Transactions, 1983, 26, 48-52.	0.6	46
80	The behaviour of greases in elastohydrodynamic contacts. Journal Physics D: Applied Physics, 1992, 25, A124-A132.	2.8	46
81	Elastohydrodynamic Film Collapse During Rapid Deceleration. Part Iâ€"Experimental Results. Journal of Tribology, 2001, 123, 254-261.	1.9	46
82	Antagonistic Interaction of Antiwear Additives and Carbon Black. Tribology Letters, 2010, 37, 49-58.	2.6	46
83	Nonequilibrium Molecular Dynamics Investigation of the Reduction in Friction and Wear by Carbon Nanoparticles Between Iron Surfaces. Tribology Letters, 2016, 63, 1.	2.6	46
84	The Behavior of Polymer Solutions in Concentrated Contacts: Immobile Surface Layer Formation. Tribology Transactions, 1994, 37, 580-586.	2.0	45
85	The influence of transverse roughness in thin film, mixed elastohydrodynamic lubrication. Tribology International, 2007, 40, 220-232.	5.9	45
86	Thin films in elastohydrodynamic lubrication: The contribution of experiment. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 1999, 213, 335-352.	1.8	44
87	The Friction Reducing Properties of Molybdenum Dialkyldithiocarbamate Additives: Part II - Durability of Friction Reducing Capability. Tribology Transactions, 2001, 44, 637-647.	2.0	44
88	Basics of EHL for practical application. Lubrication Science, 2015, 27, 45-67.	2.1	44
89	Fractionation of liquid lubricants at solid surfaces. Wear, 1996, 200, 336-345.	3.1	42
90	Frictional Properties of Automatic Transmission Fluids: Part Iâ€"Measurement of Frictionâ€"Sliding Speed Behavior. Tribology Transactions, 2010, 54, 145-153.	2.0	42

#	Article	IF	Citations
91	The Influence of Slideâ€“Roll Ratio on ZDDP Tribofilm Formation. Tribology Letters, 2016, 64, 1.	2.6	42
92	Triboelectrochemistry: Influence of Applied Electrical Potentials on Friction and Wear of Lubricated Contacts. Tribology Letters, 2020, 68, 1.	2.6	42
93	EHD Film Formation and Starvation of Oil-in-Water Emulsions. Tribology Transactions, 1993, 36, 565-572.	2.0	41
94	Thick-boundary-film formation by friction modifier additives. Lubrication Science, 1999, 11, 313-335.	2.1	41
95	The Elastohydrodynamic Traction of Synthetic Base Oil Blends. Tribology Transactions, 2001, 44, 648-656.	2.0	41
96	Influence of Organic Friction Modifier on Liquid Slip: A New Mechanism of Organic Friction Modifier Action. Tribology Letters, 2007, 27, 239-244.	2.6	41
97	On the Crystallinity and Durability of ZDDP Tribofilm. Tribology Letters, 2019, 67, 1.	2.6	41
98	In-Situ Measurement of ZDDP Films in Concentrated Contacts. Tribology Transactions, 1993, 36, 276-282.	2.0	40
99	Lubrication and Reflow Properties of Thermally Aged Greases. Tribology Transactions, 2000, 43, 221-228.	2.0	40
100	Pressure dependence of confined liquid behavior subjected to boundary-driven shear. Journal of Chemical Physics, 2012, 136, 134705.	3.0	40
101	Durability of ZDDP Tribofilms Formed in DLC/DLC Contacts. Tribology Letters, 2013, 51, 469-478.	2.6	39
102	Scuffing as a Desorption Processâ€”An Explanation of the Borsoff Effect. ASLE Transactions, 1974, 17, 92-96.	0.6	38
103	The Influence of Lubricant Upon EHD Film Behavior During Sudden Halting of Motion. Tribology Transactions, 2000, 43, 731-739.	2.0	38
104	Compression of a Single Transverse Ridge in a Circular Elastohydrodynamic Contact. Journal of Tribology, 2003, 125, 275-282.	1.9	38
105	The Role of Surface Tension and Disjoining Pressure in Starved and Parched Lubrication. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 1996, 210, 113-124.	1.8	35
106	Frictional Properties of Automatic Transmission Fluids: Part IIâ€”Origins of Frictionâ€“Sliding Speed Behavior. Tribology Transactions, 2010, 54, 154-167.	2.0	35
107	In-situ observations of the effect of the ZDDP tribofilm growth on micropitting. Tribology International, 2019, 138, 342-352.	5.9	35
108	Electrochemical effects on friction between metal oxide surfaces in aqueous solutions. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 267.	1.7	34

#	Article	IF	Citations
109	Elastohydrodynamic Film Collapse During Rapid Deceleration. Part IIâ€"Theoretical Analysis and Comparison of Theory and Experiment. Journal of Tribology, 2001, 123, 262-267.	1.9	34
110	The Tribofilm Formation of ZDDP Under Reciprocating Pure Sliding Conditions. Tribology Letters, 2016, 64, 1.	2.6	34
111	A Study of Friction Polymer Formation. ASLE Transactions, 1982, 25, 355-360.	0.6	33
112	A Thermodynamic Approach to Viscosity. Tribology Transactions, 1990, 33, 140-148.	2.0	33
113	The Antagonism between Succinimide Dispersants and a Secondary Zinc Dialkyl Dithiophosphate. Tribology Transactions, 2014, 57, 57-65.	2.0	33
114	Oxidative Wear in Lubricated Contact. Journal of Lubrication Technology, 1980, 102, 539-544.	0.1	32
115	Determination of the Shear Stresses of Lubricants in Elastohydrodynamic Contacts. Tribology Transactions, 1989, 32, 414-422.	2.0	32
116	Lubricant Flow in an Elastohydrodynamic Contact Using Fluorescence. Tribology Letters, 2010, 38, 207-215.	2.6	32
117	Friction Behaviour of ZDDP Films in the Mixed, Boundary/EHD Regime. , 1996, , .		31
118	Spurious Mild Wear Measurement Using White Light Interference Microscopy in the Presence of Antiwear Films. Tribology Transactions, 2009, 52, 841-846.	2.0	31
119	Thermal Behaviour of a Slipping Wet Clutch Contact. Tribology Letters, 2011, 41, 23-32.	2.6	31
120	Effect of steel hardness on soot wear. Wear, 2017, 390-391, 236-245.	3.1	31
121	Tribofilm Formation, Friction and Wear-Reducing Properties of Some Phosphorus-Containing Antiwear Additives. Tribology Letters, 2020, 68, 1.	2.6	31
122	The Lubricity of Gasoline. Tribology Transactions, 1999, 42, 813-823.	2.0	30
123	A Study of the Lubrication of EHL Point Contact in the Presence of Longitudinal Roughness. Tribology Letters, 2015, 59, 1.	2.6	30
124	Elastohydrodynamic film thickness measurements of perfluoropolyether fluids. Journal of Synthetic Lubrication: Research, Development and Application of Synthetic Lubricants and Functional Fluids, 1984, 1, 73-86.	0.7	29
125	Compression Heating and Cooling in Elastohydrodynamic Contacts. Tribology Letters, 2009, 36, 69-80.	2.6	29
126	Friction and Wear Reduction by Boundary Film-Forming Viscosity Index Improvers. , 0, , .		28

#	Article	IF	Citations
127	Behavior of EHD Films During Reversal of Entrainment in Cyclically Accelerated/Decelerated Motion. Tribology Transactions, 2002, 45, 177-184.	2.0	28
128	ZDDP Tribofilm Formation on Non-Ferrous Surfaces. Tribology Online, 2020, 15, 318-331.	0.9	28
129	Contributions of Molecular Dynamics Simulations to Elastohydrodynamic Lubrication. Tribology Letters, 2021, 69, 1.	2.6	27
130	Measurement and Modelling of Boundary Film Properties of Polymeric Lubricant Additives. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 1996, 210, 1-15.	1.8	26
131	Film Formation by Colloidal Overbased Detergents in Lubricated Contacts. Tribology Transactions, 2000, 43, 357-366.	2.0	26
132	Influence of surface roughness features on mixed-film lubrication. Lubrication Science, 2003, 15, 219-232.	2.1	26
133	Measurement of the Rheology of Lubricant Films Within Elastohydrodynamic Contacts. Tribology Letters, 2004, 17, 593-605.	2.6	25
134	Soft Elasto-Hydrodynamic Lubrication. Tribology Letters, 2010, 39, 109-114.	2.6	25
135	Hydrodynamic Friction Reduction in a MACâ€“Hexadecane Lubricated MEMS Contact. Tribology Letters, 2013, 49, 217-225.	2.6	25
136	Thick Antiwear Films in Elastohydrodynamic Contacts. Part I: Film Growth in Rolling/Sliding EHD Contacts. ASLE Transactions, 1986, 29, 299-305.	0.6	24
137	Wear and fatigue problems in connection with water-based hydraulic fluids. Journal of Synthetic Lubrication: Research, Development and Application of Synthetic Lubricants and Functional Fluids, 1987, 4, 115-135.	0.7	24
138	An â€˜in lubroâ€™ study of viscosity index improvers in end contacts. Lubrication Science, 1990, 3, 45-62.	2.1	24
139	Impact of ethanol on the formation of antiwear tribofilms from engine lubricants. Tribology International, 2016, 93, 364-376.	5.9	24
140	Predicting Sequence VI and VIA Fuel Economy from Laboratory Bench Tests. , 1996, , .		23
141	Improved infrared temperature mapping of elastohydrodynamic contacts. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2009, 223, 1165-1177.	1.8	23
142	Friction Modifier Behaviour in Lubricated MEMS Devices. Tribology Letters, 2011, 41, 239-246.	2.6	23
143	Reply to the Comment by Scott Bair, Philippe Vergne, Punit Kumar, Gerhard Poll, Ivan Krupka, Martin Hartl, Wassim Habchi, Roland Larson on â€œHistory, Origins and Prediction of Elastohydrodynamic Frictionâ€•by Spikes and Jie in Tribology Letters. Tribology Letters, 2015, 58, 1.	2.6	23
144	Lubrication of Rough Surfaces by a Boundary Film-Forming Viscosity Modifier Additive. Journal of Tribology, 2005, 127, 223-229.	1.9	22

#	Article	IF	Citations
145	Application of Atomic Force Microscopy to the Study of Lubricant Additive Films. Journal of Tribology, 2005, 127, 405-415.	1.9	22
146	The Influence of Longitudinal Roughness in Thin-Film, Mixed Elastohydrodynamic Lubrication. Tribology Transactions, 2006, 49, 248-259.	2.0	22
147	The Elastohydrodynamic Lubricating Properties of Water-Polyglycol Fire-Resistant Fluids. ASLE Transactions, 1984, 27, 366-372.	0.6	21
148	In Situ Study of Model Organic Friction Modifiers Using Liquid Cell AFM: Self-Assembly of Octadecylamine. Tribology Letters, 2015, 58, 1.	2.6	21
149	Mechanochemistry of phosphate esters confined between sliding iron surfaces. Communications Chemistry, 2021, 4, .	4.5	21
150	Shear Thinning and Hydrodynamic Friction of Viscosity Modifier-Containing Oils. Part I: Shear Thinning Behaviour. Tribology Letters, 2018, 66, 1.	2.6	20
151	Predicting EHD Film Thickness of Lubricant Polymer Solutions. Tribology Transactions, 1998, 41, 1-10.	2.0	19
152	Effects of Ethanol Contamination on Friction and Elastohydrodynamic Film Thickness of Engine Oils. Tribology Transactions, 2015, 58, 158-168.	2.0	19
153	Study of Permanent Shear Thinning of VM Polymer Solutions. Tribology Letters, 2017, 65, 1.	2.6	19
154	The shear stress properties of ester lubricants in elastohydrodynamic contacts. Journal of Synthetic Lubrication: Research, Development and Application of Synthetic Lubricants and Functional Fluids, 1992, 9, 91-114.	0.7	18
155	The Study of Lubricant Additive Reactions Using Non-Aqueous Electrochemistry. Tribology Transactions, 2000, 43, 175-186.	2.0	18
156	Experimental Investigation of the Effect of Speed and Load on Film Thickness in Elastohydrodynamic Contact. Tribology Transactions, 2005, 48, 328-335.	2.0	18
157	Process of Boundary Film Formation from Fatty Acid Solution. Tribology Online, 2012, 7, 1-7.	0.9	18
158	The Development and Application of a Scuffing Test Based on Contra-rotation. Tribology Letters, 2019, 67, 1.	2.6	18
159	Development of laboratory tests to predict the lubricity properties of diesel fuels and their application to the development of highly refined diesel fuels. TriboTest Journal: Tribology and Lubrication in Practice, 1995, 2, 93-112.	0.7	17
160	A new scuffing test using contra-rotation. Wear, 2015, 328-329, 229-240.	3.1	17
161	The Influence of Aluminiumâ€“Silicon Alloy on ZDDP Tribofilm Formation on the Counter-Surface. Tribology Letters, 2017, 65, 1.	2.6	17
162	Influence of Dispersant and ZDDP on Soot Wear. Tribology Letters, 2018, 66, 1.	2.6	17

#	Article	IF	Citations
163	Ethoxylated Amine Friction Modifiers and ZDDP. Tribology Letters, 2019, 67, 1.	2.6	17
164	Measurement of EHD Friction at Very High Contact Pressures. Tribology Letters, 2020, 68, 1.	2.6	17
165	Film-Forming Properties of Zinc-Based and Ashless Antiwear Additives. , 0, , .		16
166	Lubrication of Microelectromechanical Devices Using Liquids of Different Viscosities. Journal of Tribology, 2012, 134, .	1.9	16
167	Hydrodynamic Friction of Viscosity-Modified Oils in a Journal Bearing Machine. Tribology Letters, 2018, 66, 1.	2.6	16
168	The Elastohydrodynamic Film Thicknesses of Binary Ester-Ether Mixtures. ASLE Transactions, 1981, 24, 542-548.	0.6	15
169	Influence of thermal effects on elastohydrodynamic (EHD) lubrication behavior at high speeds. Science China Technological Sciences, 2015, 58, 551-558.	4.0	14
170	Shear Thinning and Hydrodynamic Friction of Viscosity Modifier-Containing Oils. Part II: Impact of Shear Thinning on Journal Bearing Friction. Tribology Letters, 2018, 66, 1.	2.6	14
171	Design of Functionalized PAMA Viscosity Modifiers to Reduce Friction and Wear in Lubricating Oils. Journal of ASTM International, 2007, 4, 100956.	0.2	14
172	Boundary Friction of ZDDP Tribofilms. Tribology Letters, 2021, 69, 1.	2.6	14
173	Thick Antiwear Films in Elastohydrodynamic Contacts. Part II: Chemical Nature of the Deposited Films. ASLE Transactions, 1986, 29, 306-311.	0.6	13
174	Mapping Shear Stress in Elastohydrodynamic Contacts. Tribology Transactions, 1995, 38, 932-940.	2.0	13
175	New Method of Measuring Permanent Viscosity Loss of Polymer-Containing Lubricants. Tribology Transactions, 2012, 55, 631-639.	2.0	13
176	The Influence of Sliding Speed and Lubricant Shear Stress on EHD Contact Temperatures. Tribology Transactions, 1990, 33, 355-362.	2.0	12
177	The film-forming properties of polyalkylene glycols. Journal of Synthetic Lubrication: Research, Development and Application of Synthetic Lubricants and Functional Fluids, 1993, 10, 23-45.	0.7	12
178	Lubrication and Reflow Properties of Thermally Aged Greases. Tribology Transactions, 2000, 43, 9-14.	2.0	12
179	Measurement of Pressure Distribution in EHLâ€"Development of Method and Application to Dry Static Contacts. Tribology Transactions, 2005, 48, 474-483.	2.0	12
180	Use of FIB to Study ZDDP Tribofilms. Tribology Letters, 2018, 66, 1.	2.6	12

#	Article	IF	Citations
181	Effects of Dispersant and ZDDP Additives on Fretting Wear. Tribology Letters, 2021, 69, 1.	2.6	12
182	Influence of Steel Surface Composition on ZDDP Tribofilm Growth Using Ion Implantation. Tribology Letters, 2021, 69, 1.	2.6	12
183	Comparison of the Lubricity of Gasoline and Diesel Fuels. , 1996, , .		11
184	Langmuir-Blodgett Films in High-Pressure Rolling Contacts. Tribology Transactions, 2003, 46, 24-30.	2.0	11
185	Influence of Polyalkylmethacrylate Viscosity Index Improvers on the Efficiency of Lubricants. , 0, , .		11
186	Friction and film-forming behaviour of five traction fluids. Journal of Synthetic Lubrication: Research, Development and Application of Synthetic Lubricants and Functional Fluids, 2004, 21, 13-32.	0.7	11
187	Confining Liquids on Silicon Surfaces to Lubricate MEMS. Tribology Letters, 2015, 59, 1.	2.6	11
188	The Influence of Steel Composition on the Formation and Effectiveness of Anti-wear Films in Tribological Contacts. Tribology Letters, 2021, 69, 1.	2.6	11
189	Wear of hydrogenated DLC in MoDTC-containing oils. Wear, 2021, 474-475, 203869.	3.1	11
190	Film-Forming Properties of Polyol Esters, Polyphenyl Ethers and Their Mixtures Over a Wide Range of Temperature. Tribology Transactions, 2000, 43, 130-136.	2.0	10
191	Origins of the friction and wear properties of antiwear additives. Lubrication Science, 2006, 18, 223-230.	2.1	10
192	Boundary Film Formation by Low Molecular Weight Polymers. Tribology Series, 1997, 32, 487-500.	0.1	9
193	Influence of polymethacrylate viscosity index improvers on friction and wear of lubricant formulations. , 0, , .		9
194	Interaction of Asperities on Opposing Surfaces in Thin Film, Mixed Elastohydrodynamic Lubrication. Journal of Tribology, 2008, 130, .	1.9	9
195	Tribological Properties of Sulphur-Free Antiwear Additives Zinc Dialkylphosphates (ZDPs). SAE International Journal of Fuels and Lubricants, 2011, 5, 504-510.	0.2	9
196	Influence of Lubricant Properties on ARKL Temperature Rise and Transmission Efficiency. Tribology Transactions, 2013, 56, 1119-1136.	2.0	9
197	Temperature dependence of molybdenum dialkyl dithiocarbamate (MoDTC) tribofilms via time-resolved Raman spectroscopy. Scientific Reports, 2021, 11, 3621.	3.3	9
198	Beyond ZDDP. Lubrication Science, 2008, 20, 77-78.	2.1	8

#	Article	IF	Citations
199	Oxidational wear in lubricated contacts â€“ Or is it?. Tribology International, 2022, 165, 107287.	5.9	8
200	The half-wetted bearing. Part 1: extended Reynolds equation. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2003, 217, 1-14.	1.8	8
201	Triboelectrochemistry on a nanometre scale. Tribology Letters, 1996, 2, 287.	2.6	7
202	New Test for Mild Lubricated Wear in Rolling-Sliding Contacts. Tribology Transactions, 2007, 50, 145-153.	2.0	7
203	Comparison of Three Laboratory Tests to Quantify Mild Wear Rate. Tribology Transactions, 2013, 56, 919-928.	2.0	7
204	Influence of Black Oxide Coating on Micropitting and ZDDP Tribofilm Formation. Tribology Transactions, 2022, 65, 242-259.	2.0	7
205	Direct measurement of boundary lubricating films. Tribology Series, 1997, 32, 459-466.	0.1	6
206	The Behaviour of Molybdenum Dialkyldithiocarbamate Friction Modifier Additives. Tribology Series, 1999, , 759-766.	0.1	6
207	Oscillations induced in EHD film thickness by a step in entrainment speed. Lubrication Science, 2003, 15, 311-320.	2.1	6
208	Interactions of Ethanol with Friction Modifiers in Model Engine Lubricants. Lubricants, 2019, 7, 101.	2.9	6
209	Measurement of Piston Ring and Land Temperatures in a Firing Engine Using Infrared. Tribology Transactions, 1993, 36, 104-112.	2.0	5
210	Behaviour of several lubricants for space applications under transient speed conditions. Journal of Synthetic Lubrication: Research, Development and Application of Synthetic Lubricants and Functional Fluids, 2002, 19, 191-211.	0.7	5
211	The influence of soot on lubricating films. Tribology Series, 2003, , 37-43.	0.1	5
212	Two Mechanisms of Hydrodynamic Lubrication in Textured Bearings. , 2006, , 511.		5
213	Effect of Surface Cleaning on Performance of Organic Friction Modifiers. Tribology Transactions, 2020, 63, 305-313.	2.0	5
214	Substituent effects on the mechanochemical response of zinc dialkyldithiophosphate. Molecular Systems Design and Engineering, 2022, 7, 1045-1055.	3.4	5
215	In-Situ Observation of the Effect of the Tribofilm Growth on Scuffing in Rolling-Sliding Contact. Tribology Letters, 2022, 70, .	2.6	5
216	Comment on: Rheology of an Ionic Liquid with Variable Carreau Exponent: A Full Picture by Molecular Simulation with Experimental Contribution, by Nicolas Voeltzel, Philippe Vergne, Nicolas Fillot, Nathalie Bouscharain, Laurent Joly, Tribology Letters (2016) 64:25. Tribology Letters, 2017, 65, 1.	2.6	4

#	Article	IF	Citations
217	Influence of PMA on the anti-scuffing properties of AW/EP additives. Tribology International, 2022, 174, 107756.	5.9	4
218	Discussion: Prediction of traction in elastohydrodynamic lubrication. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2001, 215, 309-310.	1.8	3
219	Influence of NO x and Air on the Ageing Behaviour of MoDTC. Tribology Letters, 2017, 65, 1.	2.6	3
220	Correlation of Elastohydrodynamic Friction with Molecular Structure of Highly Refined Hydrocarbon Base Oils. Tribology Letters, 2020, 68, 1.	2.6	3
221	Study of zinc dialkyldithiophosphate using electrochemical techniques. Tribology Series, 2002, , 175-181.	0.1	2
222	CFD Modelling of Elastohydrodynamic Lubrication. , 2005, , 531.		2
223	Advances in Tribological Design of Poly(alkyl methacrylate) Viscosity Index Improvers. , 0, , .		2
224	New Electrolytes for Electrochemical Study in Hydrocarbon Solution. , 2001, , 711-716.		2
225	The effect of friction on micropitting. Wear, 2022, 488-489, 204130.	3.1	2
226	Influence of degradation on the film-forming properties of polyolester oils. Journal of Synthetic Lubrication: Research, Development and Application of Synthetic Lubricants and Functional Fluids, 2000, 17, 7-22.	0.7	1
227	CFD Analysis of a Low Friction Pocketed Pad Bearing. , 2004, , 737.		1
228	A Micro-IRRAS Study of Lubricant Degradation Under Thin Film Conditions. , 2005, , 569.		1
229	Elastohydrodynamic Lubrication of Multiple Periodic Ridges. , 2005, , 519.		1
230	New Bench Test to Study Mild Lubricated Wear. , 2005, , 961.		1
231	Behaviour of Boundary Lubricating Additives on DLC Coatings. , 2007, , 141.		1
232	Fourth World Tribology Conference. Lubrication Science, 2010, 22, 415-416.	2.1	1
233	Temperature measurement of debris particles in EHL contacts. Surface Topography: Metrology and Properties, 2018, 6, 034013.	1.6	1
234	Future helicopter transmission oils. Journal of Synthetic Lubrication: Research, Development and Application of Synthetic Lubricants and Functional Fluids, 1986, 3, 181-208.	0.7	0

#	Article	IF	Citations
235	Why lubrication science?. Lubrication Science, 1988, 1, 1-2.	2.1	0
236	Behavior of Viscosity Index Improver-Containing Oils in Non-Steady State Contacts. , 0, , .		0
237	Soft EHL Lubrication of Complex Multiphase Fluids. , 2005, , 589.		0
238	Development of hydrodynamic micro-bearings. Journal of Physics: Conference Series, 2016, 773, 012020.	0.4	0
239	Reply to the â€˜Comment on â€œThe Relationship Between Friction and Film Thickness in EHD Point Contacts in the Presence of Longitudinal Roughnessâ€• by Guegan, Kadiric, Gabelli, & Spikesâ€™ by Scott Bair. Tribology Letters, 2017, 65, 1.	2.6	0
240	The Study of Very Thin Lubricant Films in High Pressure Contacts Using Spacer Layer Interferometric Methods. , 2001, , 663-689.		0
241	A Technique for the Detection of Liquid Slip at a Load-Bearing, High Shear Contact. , 2005, , .		0
242	Thermal Effects in an Elastohydrodynamic Line Contact Using a CFD Approach. , 2007, , .		0
243	Film Thickness Study of Lubricated, Compliant Contacts. , 2009, , .		0
244	EFFECTS OF ETHANOL ON FILM THICKNESS AND FRICTION OF GROUP ONE ENGINE OILS. , 0, , .		0