Hugh A Spikes

List of Publications by Year
in descending order

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	Influence of Black Oxide Coating on Micropitting and ZDDP Tribofilm Formation. Tribology Transactions, 2022, 65, 242-259.	2.0	7
2	Oxidational wear in lubricated contacts â€“ Or is it?. Tribology International, 2022, 165, 107287.	5.9	8
3	The effect of friction on micropitting. Wear, 2022, 488-489, 204130.	3.1	2
4	Substituent effects on the mechanochemical response of zinc dialkyldithiophosphate. Molecular Systems Design and Engineering, 2022, 7, 1045-1055.	3.4	5
5	In-Situ Observation of the Effect of the Tribofilm Growth on Scuffing in Rolling-Sliding Contact. Tribology Letters, 2022, 70, .	2.6	5
6	Influence of PMA on the anti-scuffing properties of AW/EP additives. Tribology International, 2022, 174, 107756.	5.9	4
7	Effects of Dispersant and ZDDP Additives on Fretting Wear. Tribology Letters, 2021, 69, 1.	2.6	12
8	Contributions of Molecular Dynamics Simulations to Elastohydrodynamic Lubrication. Tribology Letters, 2021, 69, 1.	2.6	27
9	Temperature dependence of molybdenum dialkyl dithiocarbamate (MoDTC) tribofilms via time-resolved Raman spectroscopy. Scientific Reports, 2021, 11, 3621.	3.3	9
10	Influence of Steel Surface Composition on ZDDP Tribofilm Growth Using Ion Implantation. Tribology Letters, 2021, 69, 1.	2.6	12
11	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
12	Wear of hydrogenated DLC in MoDTC-containing oils. Wear, 2021, 474-475, 203869.	3.1	11
13	Boundary Friction of ZDDP Tribofilms. Tribology Letters, 2021, 69, 1.	2.6	14
14	Mechanochemistry of phosphate esters confined between sliding iron surfaces. Communications Chemistry, 2021, 4, .	4.5	21
15	Mechanochemistry of Zinc Dialkyldithiophosphate on Steel Surfaces under Elastohydrodynamic Lubrication Conditions. ACS Applied Materials & Interfaces, 2020, 12, 6662-6676.	8.0	58
16	Effect of Surface Cleaning on Performance of Organic Friction Modifiers. Tribology Transactions, 2020, 63, 305-313.	2.0	5
17	Tribofilm Formation, Friction and Wear-Reducing Properties of Some Phosphorus-Containing Antiwear Additives. Tribology Letters, 2020, 68, 1.	2.6	31
18	Triboelectrochemistry: Influence of Applied Electrical Potentials on Friction and Wear of Lubricated Contacts. Tribology Letters, 2020, 68, 1.	2.6	42

#	Article	IF	Citations
19	Measurement of EHD Friction at Very High Contact Pressures. Tribology Letters, 2020, 68, 1.	2.6	17
20	Correlation of Elastohydrodynamic Friction with Molecular Structure of Highly Refined Hydrocarbon Base Oils. Tribology Letters, 2020, 68, 1.	2.6	3
21	Adsorption of Organic Friction Modifier Additives. Langmuir, 2020, 36, 1147-1155.	3.5	54
22	ZDDP Tribofilm Formation on Non-Ferrous Surfaces. Tribology Online, 2020, 15, 318-331.	0.9	28
23	Friction Modifier Additives, Synergies and Antagonisms. Tribology Letters, 2019, 67, 1.	2.6	79
24	On the Crystallinity and Durability of ZDDP Tribofilm. Tribology Letters, 2019, 67, 1.	2.6	41
25	Ethoxylated Amine Friction Modifiers and ZDDP. Tribology Letters, 2019, 67, 1.	2.6	17
26	In-situ observations of the effect of the ZDDP tribofilm growth on micropitting. Tribology International, 2019, 138, 342-352.	5.9	35
27	The Development and Application of a Scuffing Test Based on Contra-rotation. Tribology Letters, 2019, 67, 1.	2.6	18
28	Film Thickness and Friction of ZDDP Tribofilms. Tribology Letters, 2019, 67, 1.	2.6	75
29	Interactions of Ethanol with Friction Modifiers in Model Engine Lubricants. Lubricants, 2019, 7, 101.	2.9	6
30	Thermal Conductivity and Flash Temperature. Tribology Letters, 2019, 67, 1.	2.6	49
31	Stress-augmented thermal activation: Tribology feels the force. Friction, 2018, 6, 1-31.	6.4	108
32	Use of FIB to Study ZDDP Tribofilms. Tribology Letters, 2018, 66, 1.	2.6	12
33	Influence of Dispersant and ZDDP on Soot Wear. Tribology Letters, 2018, 66, 1.	2.6	17
34	Hydrodynamic Friction of Viscosity-Modified Oils in a Journal Bearing Machine. Tribology Letters, 2018, 66, 1.	2.6	16
35	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
36	Temperature measurement of debris particles in EHL contacts. Surface Topography: Metrology and Properties, 2018, 6, 034013.	1.6	1

#	Article	IF	Citations
37	Shear Thinning and Hydrodynamic Friction of Viscosity Modifier-Containing Oils. Part I: Shear Thinning Behaviour. Tribology Letters, 2018, 66, 1.	2.6	20
38	Influence of NO x and Air on the Ageing Behaviour of MoDTC. Tribology Letters, 2017, 65, 1.	2.6	3
39	Effect of Base Oil Structure on Elastohydrodynamic Friction. Tribology Letters, 2017, 65, 1.	2.6	47
40	The Influence of Aluminiumâ€“Silicon Alloy on ZDDP Tribofilm Formation on the Counter-Surface. Tribology Letters, 2017, 65, 1.	2.6	17
41	Study of Permanent Shear Thinning of VM Polymer Solutions. Tribology Letters, 2017, 65, 1.	2.6	19
42	Effect of steel hardness on soot wear. Wear, 2017, 390-391, 236-245.	3.1	31
43	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
44	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
45	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
46	A Comparison of Classical Force-Fields for Molecular Dynamics Simulations of Lubricants. Materials, 2016, 9, 651.	2.9	96
47	The Influence of Slideâ€“Roll Ratio on ZDDP Tribofilm Formation. Tribology Letters, 2016, 64, 1.	2.6	42
48	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
49	The Tribofilm Formation of ZDDP Under Reciprocating Pure Sliding Conditions. Tribology Letters, 2016, 64, 1.	2.6	34
50	Development of hydrodynamic micro-bearings. Journal of Physics: Conference Series, 2016, 773, 012020.	0.4	0
51	Elastohydrodynamic film thickness of soft EHL contacts using optical interferometry. Tribology International, 2016, 99, 267-277.	5.9	57
52	Nonequilibrium Molecular Dynamics Simulations of Organic Friction Modifiers Adsorbed on Iron Oxide Surfaces. Langmuir, 2016, 32, 4450-4463.	3.5	105
53	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
54	On the Mechanism of ZDDP Antiwear Film Formation. Tribology Letters, 2016, 63, 1.	2.6	206

#	Article	IF	Citations
55	Impact of ethanol on the formation of antiwear tribofilms from engine lubricants. Tribology International, 2016, 93, 364-376.	5.9	24
56	In Situ Study of Model Organic Friction Modifiers Using Liquid Cell AFM: Self-Assembly of Octadecylamine. Tribology Letters, 2015, 58, 1.	2.6	21
57	On the Commonality Between Theoretical Models for Fluid and Solid Friction, Wear and Tribochemistry. Tribology Letters, 2015, 59, 1.	2.6	99
58	Confining Liquids on Silicon Surfaces to Lubricate MEMS. Tribology Letters, 2015, 59, 1.	2.6	11
59	Effects of Ethanol Contamination on Friction and Elastohydrodynamic Film Thickness of Engine Oils. Tribology Transactions, 2015, 58, 158-168.	2.0	19
60	Basics of EHL for practical application. Lubrication Science, 2015, 27, 45-67.	2.1	44
61	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
62	A new scuffing test using contra-rotation. Wear, 2015, 328-329, 229-240.	3.1	17
63	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
64	A Study of the Lubrication of EHL Point Contact in the Presence of Longitudinal Roughness. Tribology Letters, 2015, 59, 1.	2.6	30
65	Friction Modifier Additives. Tribology Letters, 2015, 60, 1.	2.6	388
66	Influence of thermal effects on elastohydrodynamic (EHD) lubrication behavior at high speeds. Science China Technological Sciences, 2015, 58, 551-558.	4.0	14
67	History, Origins and Prediction of Elastohydrodynamic Friction. Tribology Letters, 2014, 56, 1-25.	2.6	105
68	The Antagonism between Succinimide Dispersants and a Secondary Zinc Dialkyl Dithiophosphate. Tribology Transactions, 2014, 57, 57-65.	2.0	33
69	Durability of ZDDP Tribofilms Formed in DLC/DLC Contacts. Tribology Letters, 2013, 51, 469-478.	2.6	39
70	Comparison of Three Laboratory Tests to Quantify Mild Wear Rate. Tribology Transactions, 2013, 56, 919-928.	2.0	7
71	Hydrodynamic Friction Reduction in a MACâ€“Hexadecane Lubricated MEMS Contact. Tribology Letters, 2013, 49, 217-225.	2.6	25
72	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

#	Article	IF	Citations
73	Influence of Lubricant Properties on ARKL Temperature Rise and Transmission Efficiency. Tribology Transactions, 2013, 56, 1119-1136.	2.0	9
74	Pressure dependence of confined liquid behavior subjected to boundary-driven shear. Journal of Chemical Physics, 2012, 136, 134705.	3.0	40
75	Lubrication of Microelectromechanical Devices Using Liquids of Different Viscosities. Journal of Tribology, 2012, 134, .	1.9	16
76	On the Increase in Boundary Friction with Sliding Speed. Tribology Letters, 2012, 48, 237-248.	2.6	97
77	New Method of Measuring Permanent Viscosity Loss of Polymer-Containing Lubricants. Tribology Transactions, 2012, 55, 631-639.	2.0	13
78	Behaviour of MoDTC in DLC/DLC and DLC/steel contacts. Tribology International, 2012, 54, 68-76.	5.9	92
79	Process of Boundary Film Formation from Fatty Acid Solution. Tribology Online, 2012, 7, 1-7.	0.9	18
80	Tribological Properties of Sulphur-Free Antiwear Additives Zinc Dialkylphosphates (ZDPs). SAE International Journal of Fuels and Lubricants, 2011, 5, 504-510.	0.2	9
81	Thermal Behaviour of a Slipping Wet Clutch Contact. Tribology Letters, 2011, 41, 23-32.	2.6	31
82	Friction Modifier Behaviour in Lubricated MEMS Devices. Tribology Letters, 2011, 41, 239-246.	2.6	23
83	Tribological properties of tribofilms formed from ZDDP in DLC/DLC and DLC/steel contacts. Tribology International, 2011, 44, 165-174.	5.9	112
84	Friction properties of DLC/DLC contacts in base oil. Tribology International, 2011, 44, 922-932.	5.9	65
85	Antagonistic Interaction of Antiwear Additives and Carbon Black. Tribology Letters, 2010, 37, 49-58.	2.6	46
86	Lubricant Flow in an Elastohydrodynamic Contact Using Fluorescence. Tribology Letters, 2010, 38, 207-215.	2.6	32
87	Soft Elasto-Hydrodynamic Lubrication. Tribology Letters, 2010, 39, 109-114.	2.6	25
88	Fourth World Tribology Conference. Lubrication Science, 2010, 22, 415-416.	2.1	1
89	Frictional Properties of Automatic Transmission Fluids: Part IIâ€"Origins of Frictionâ€"Sliding Speed Behavior. Tribology Transactions, 2010, 54, 154-167.	2.0	35
90	An Investigation of Lubricant Film Thickness in Sliding Compliant Contacts. Tribology Transactions, 2010, 53, 684-694.	2.0	48

#	Article	IF	Citations
91	Frictional Properties of Automatic Transmission Fluids: Part Iâ€"Measurement of Frictionâ€"Sliding Speed Behavior. Tribology Transactions, 2010, 54, 145-153.	2.0	42
92	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
93	Compression Heating and Cooling in Elastohydrodynamic Contacts. Tribology Letters, 2009, 36, 69-80.	2.6	29
94	Spurious Mild Wear Measurement Using White Light Interference Microscopy in the Presence of Antiwear Films. Tribology Transactions, 2009, 52, 841-846.	2.0	31
95	Film Thickness Study of Lubricated, Compliant Contacts. , 2009, , .		0
96	Film Forming and Friction Properties of Overbased Calcium Sulphonate Detergents. Tribology Letters, 2008, 29, 33-44.	2.6	47
97	Behaviour of boundary lubricating additives on DLC coatings. Wear, 2008, 265, 1893-1901.	3.1	138
98	Lowâ€•and zeroâ€•sulphated ash, phosphorus and sulphur antiâ€•wear additives for engine oils. Lubrication Science, 2008, 20, 103-136.	2.1	216
99	Interaction of Asperities on Opposing Surfaces in Thin Film, Mixed Elastohydrodynamic Lubrication. Journal of Tribology, 2008, 130, .	1.9	9
100	CFD Modeling of a Thermal and Shear-Thinning Elastohydrodynamic Line Contact. Journal of Tribology, 2008, 130, .	1.9	68
101	Beyond ZDDP. Lubrication Science, 2008, 20, 77-78.	2.1	8
102	Entrainment and Inlet Suction: Two Mechanisms of Hydrodynamic Lubrication in Textured Bearings. Journal of Tribology, 2007, 129, 336-347.	1.9	186
103	Behaviour of Boundary Lubricating Additives on DLC Coatings. , 2007, , 141.		1
104	A Low Friction Bearing Based on Liquid Slip at the Wall. Journal of Tribology, 2007, 129, 611-620.	1.9	98
105	New Test for Mild Lubricated Wear in Rolling-Sliding Contacts. Tribology Transactions, 2007, 50, 145-153.	2.0	7
106	Performance of Friction Modifiers on ZDDP-Generated Surfaces. Tribology Transactions, 2007, 50, 328-335.	2.0	63
107	The influence of transverse roughness in thin film, mixed elastohydrodynamic lubrication. Tribology International, 2007, 40, 220-232.	5.9	45
108	Film thickness and roughness of ZDDP antiwear films. Tribology Letters, 2007, 26, 161-171.	2.6	115

#	Article	IF	Citations
109	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
110	Reduction of Friction by Functionalised Viscosity Index Improvers. Tribology Letters, 2007, 28, 287-298.	2.6	68
111	Design of Functionalized PAMA Viscosity Modifiers to Reduce Friction and Wear in Lubricating Oils. Journal of ASTM International, 2007, 4, 100956.	0.2	14
112	Thermal Effects in an Elastohydrodynamic Line Contact Using a CFD Approach. , 2007, , .		0
113	The Influence of Longitudinal Roughness in Thin-Film, Mixed Elastohydrodynamic Lubrication. Tribology Transactions, 2006, 49, 248-259.	2.0	22
114	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
115	Two Mechanisms of Hydrodynamic Lubrication in Textured Bearings. , 2006, , 511.		5
116	The effect of emulsifier concentration on the lubricating properties of oil-in-water emulsions. Tribology Letters, 2006, 22, 53-65.	2.6	89
117	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
118	Sixty years of EHL. Lubrication Science, 2006, 18, 265-291.	2.1	115
119	The Design of Boundary Film-Forming PMA Viscosity Modifiers. Tribology Transactions, 2006, 49, 225-232.	2.0	74
120	Origins of the friction and wear properties of antiwear additives. Lubrication Science, 2006, 18, 223-230.	2.1	10
121	Soft EHL Lubrication of Complex Multiphase Fluids. , 2005, , 589.		0
122	A Micro-IRRAS Study of Lubricant Degradation Under Thin Film Conditions. , 2005, , 569.		1
123	Lubrication of Rough Surfaces by a Boundary Film-Forming Viscosity Modifier Additive. Journal of Tribology, 2005, 127, 223-229.	1.9	22
124	CFD Modelling of Elastohydrodynamic Lubrication. , 2005, , 531.		2
125	Measurement of Pressure Distribution in EHLâ€”Development of Method and Application to Dry Static Contacts. Tribology Transactions, 2005, 48, 474-483.	2.0	12
126	Study of Zinc Dialkydithiophosphate Antiwear Film Formation and Removal Processes, Part I: Experimental. Tribology Transactions, 2005, 48, 558-566.	2.0	111

#	Article	IF	Citations
127	Elastohydrodynamic Lubrication of Multiple Periodic Ridges. , 2005, , 519.		1
128	Application of Atomic Force Microscopy to the Study of Lubricant Additive Films. Journal of Tribology, 2005, 127, 405-415.	1.9	22
129	New Bench Test to Study Mild Lubricated Wear. , 2005, , 961.		1
130	Study of Zinc Dialkyldithiophosphate Antiwear Film Formation and Removal Processes, Part II: Kinetic Model. Tribology Transactions, 2005, 48, 567-575.	2.0	77
131	Experimental Investigation of the Effect of Speed and Load on Film Thickness in Elastohydrodynamic Contact. Tribology Transactions, 2005, 48, 328-335.	2.0	18
132	A Technique for the Detection of Liquid Slip at a Load-Bearing, High Shear Contact. , 2005, , .		0
133	The influence of soot and dispersant on ZDDP film thickness and friction. Lubrication Science, 2004, 17, 25-43.	2.1	55
134	Measurement of the Rheology of Lubricant Films Within Elastohydrodynamic Contacts. Tribology Letters, 2004, 17, 593-605.	2.6	25
135	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
136	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
137	CFD Analysis of a Low Friction Pocketed Pad Bearing. , 2004, , 737.		1
138	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
139	Title is missing!. Tribology Letters, 2003, 15, 231-239.	2.6	136
140	Equation for Slip of Simple Liquids at Smooth Solid Surfaces. Langmuir, 2003, 19, 5065-5071.	3.5	153
141	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
142	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
143	Mechanism of Action of Colloidal Solid Dispersions. Journal of Tribology, 2003, 125, 552-557.	1.9	194
144	Basics of mixed lubrication. Lubrication Science, 2003, 16, 1-28.	2.1	59

#	Article	IF	Citations
145	Influence of surface roughness features on mixed-film lubrication. Lubrication Science, 2003, 15, 219-232.	2.1	26
146	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
147	Oscillations induced in EHD film thickness by a step in entrainment speed. Lubrication Science, 2003, 15, 311-320.	2.1	6
148	Langmuir-Blodgett Films in High-Pressure Rolling Contacts. Tribology Transactions, 2003, 46, 24-30.	2.0	11
149	The influence of soot on lubricating films. Tribology Series, 2003, , 37-43.	0.1	5
150	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
151	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
152	Compression of a Single Transverse Ridge in a Circular Elastohydrodynamic Contact. Journal of Tribology, 2003, 125, 275-282.	1.9	38
153	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
154	Behavior of EHD Films During Reversal of Entrainment in Cyclically Accelerated/Decelerated Motion. Tribology Transactions, 2002, 45, 177-184.	2.0	28
155	Film-forming additives - direct and indirect ways to reduce friction. Lubrication Science, 2002, 14, 147-167.	2.1	59
156	Study of zinc dialkyldithiophosphate using electrochemical techniques. Tribology Series, 2002, , 175-181.	0.1	2
157	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
158	The Friction Reducing Properties of Molybdenum Dialkyldithiocarbamate Additives: Part I â€" Factors Influencing Friction Reduction. Tribology Transactions, 2001, 44, 626-636.	2.0	114
159	The Friction Reducing Properties of Molybdenum Dialkyldithiocarbamate Additives: Part II - Durability of Friction Reducing Capability. Tribology Transactions, 2001, 44, 637-647.	2.0	44
160	Elastohydrodynamic Film Collapse During Rapid Deceleration. Part Iâ€"Experimental Results. Journal of Tribology, 2001, 123, 254-261.	1.9	46
161	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
162	Tribology research in the twenty-first century. Tribology International, 2001, 34, 789-799.	5.9	86

#	Article	IF	Citations
163	Title is missing!. Tribology Letters, 2001, 11, 71-81.	2.6	69
164	The Elastohydrodynamic Traction of Synthetic Base Oil Blends. Tribology Transactions, 2001, 44, 648-656.	2.0	41
165	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
166	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
167	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
168	New Electrolytes for Electrochemical Study in Hydrocarbon Solution. , 2001, , 711-716.		2
169	The Study of Very Thin Lubricant Films in High Pressure Contacts Using Spacer Layer Interferometric Methods. , 2001, , 663-689.		0
170	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
171	The Study of Lubricant Additive Reactions Using Non-Aqueous Electrochemistry. Tribology Transactions, 2000, 43, 175-186.	2.0	18
172	Lubrication and Reflow Properties of Thermally Aged Greases. Tribology Transactions, 2000, 43, 9-14.	2.0	12
173	Friction and Wear Behavior of Zinc Dialkyldithiophosphate Additive. Tribology Transactions, 2000, 43, 469-479.	2.0	122
174	Film Formation by Colloidal Overbased Detergents in Lubricated Contacts. Tribology Transactions, 2000, 43, 357-366.	2.0	26
175	Lubricant Film Thickness in Rough Surface, Mixed Elastohydrodynamic Contact. Journal of Tribology, 2000, 122, 65-76.	1.9	72
176	Lubrication and Reflow Properties of Thermally Aged Greases. Tribology Transactions, 2000, 43, 221-228.	2.0	40
177	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
178	The Behavior of Colloidal Solid Particles in Elastohydrodynamic Contacts. Tribology Transactions, 2000, 43, 387-394.	2.0	52
179	The Influence of Lubricant Upon EHD Film Behavior During Sudden Halting of Motion. Tribology Transactions, 2000, 43, 731-739.	2.0	38
180	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

#	Article	IF	Citations
181	The Lubricity of Gasoline. Tribology Transactions, 1999, 42, 813-823.	2.0	30
182	Thick-boundary-film formation by friction modifier additives. Lubrication Science, 1999, 11, 313-335.	2.1	41
183	The Elastohydrodynamic Friction and Film Forming Properties of Lubricant Base Oils. Tribology Transactions, 1999, 42, 559-569.	2.0	67
184	The Behaviour of Molybdenum Dialkyldithiocarbamate Friction Modifier Additives. Tribology Series, 1999, , 759-766.	0.1	6
185	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
186	Predicting EHD Film Thickness of Lubricant Polymer Solutions. Tribology Transactions, 1998, 41, 1-10.	2.0	19
187	EHD Film Thickness in Non-Steady State Contacts. Journal of Tribology, 1998, 120, 442-452.	1.9	80
188	The Control of Friction by Molecular Fractionation of Base Fluid Mixtures at Metal Surfaces. Tribology Transactions, 1997, 40, 461-469.	2.0	55
189	Direct measurement of boundary lubricating films. Tribology Series, 1997, 32, 459-466.	0.1	6
190	Optimizing Film Formation by Oil-in-Water Emulsions. Tribology Transactions, 1997, 40, 569-578.	2.0	47
191	Mixed lubrication â€" an overview. Lubrication Science, 1997, 9, 221-253.	2.1	117
192	Boundary Film Formation by Low Molecular Weight Polymers. Tribology Series, 1997, 32, 487-500.	0.1	9
193	The Development of a Spacer Layer Imaging Method (SLIM) for Mapping Elastohydrodynamic Contacts. Tribology Transactions, 1996, 39, 915-921.	2.0	202
194	Friction Behaviour of ZDDP Films in the Mixed, Boundary/EHD Regime. , 1996, , .		31
195	Comparison of the Lubricity of Gasoline and Diesel Fuels. , 1996, , .		11
196	Predicting Sequence VI and VIA Fuel Economy from Laboratory Bench Tests. , 1996, , .		23
197	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
198	Fractionation of liquid lubricants at solid surfaces. Wear, 1996, 200, 336-345.	3.1	42

#	Article	IF	Citations
199	Triboelectrochemistry on a nanometre scale. Tribology Letters, 1996, 2, 287.	2.6	7
200	Boundary Film Formation by Viscosity Index Improvers. Tribology Transactions, 1996, 39, 726-734.	2.0	108
201	Boundary Film Formation by Lubricant Base Fluids. Tribology Transactions, 1996, 39, 448-454.	2.0	82
202	The Formation of Viscous Surface Films by Polymer Solutions: Boundary or Elastohydrodynamic Lubrication?. Tribology Transactions, 1996, 39, 720-725.	2.0	76
203	Infrared and Visual Study of the Mechanisms of Scuffing. Tribology Transactions, 1996, 39, 441-447.	2.0	65
204	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
205	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
206	Mapping Shear Stress in Elastohydrodynamic Contacts. Tribology Transactions, 1995, 38, 932-940.	2.0	13
207	The Behavior of Polymer Solutions in Concentrated Contacts: Immobile Surface Layer Formation. Tribology Transactions, 1994, 37, 580-586.	2.0	45
208	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
209	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
210	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
211	Measurement of Piston Ring and Land Temperatures in a Firing Engine Using Infrared. Tribology Transactions, 1993, 36, 104-112.	2.0	5
212	Electrochemical effects on friction between metal oxide surfaces in aqueous solutions. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 267.	1.7	34
213	In-Situ Measurement of ZDDP Films in Concentrated Contacts. Tribology Transactions, 1993, 36, 276-282.	2.0	40
214	EHD Film Formation and Starvation of Oil-in-Water Emulsions. Tribology Transactions, 1993, 36, 565-572.	2.0	41
215	The behaviour of greases in elastohydrodynamic contacts. Journal Physics D: Applied Physics, 1992, 25, A124-A132.	2.8	46
216	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

#	Article	IF	Citations
217	The Measurement and Study of Very Thin Lubricant Films in Concentrated Contacts. Tribology Transactions, 1991, 34, 187-194.	2.0	448
218	In Lubro Studies of Lubricants in EHD Contacts Using FTIR Absorption Spectroscopy. Tribology Transactions, 1991, 34, 248-256.	2.0	73
219	An â€˜in lubroâ€™ study of viscosity index improvers in end contacts. Lubrication Science, 1990, 3, 45-62.	2.1	24
220	The Influence of Sliding Speed and Lubricant Shear Stress on EHD Contact Temperatures. Tribology Transactions, 1990, 33, 355-362.	2.0	12
221	A Thermodynamic Approach to Viscosity. Tribology Transactions, 1990, 33, 140-148.	2.0	33
222	Determination of the Shear Stresses of Lubricants in Elastohydrodynamic Contacts. Tribology Transactions, 1989, 32, 414-422.	2.0	32
223	Additive-additive and additive-surface interactions in lubrication. Lubrication Science, 1989, 2, 3-23.	2.1	69
224	The Behavior of Suspended Solid Particles in Rolling and Sliding Elastohydrodynamic Contacts. Tribology Transactions, 1988, 31, 12-21.	2.0	80
225	Why lubrication science?. Lubrication Science, 1988, 1, 1-2.	2.1	0
226	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
227	Thick Antiwear Films in Elastohydrodynamic Contacts. Part I: Film Growth in Rolling/Sliding EHD Contacts. ASLE Transactions, 1986, 29, 299-305.	0.6	24
228	Thick Antiwear Films in Elastohydrodynamic Contacts. Part II: Chemical Nature of the Deposited Films. ASLE Transactions, 1986, 29, 306-311.	0.6	13
229	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
230	The Elastohydrodynamic Lubricating Properties of Water-Polyglycol Fire-Resistant Fluids. ASLE Transactions, 1984, 27, 366-372.	0.6	21
231	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
232	Thick Film Formation by Zinc Dialkyldithiophosphates. ASLE Transactions, 1983, 26, 48-52.	0.6	46
233	A Study of Friction Polymer Formation. ASLE Transactions, 1982, 25, 355-360.	0.6	33
234	The Elastohydrodynamic Film Thicknesses of Binary Ester-Ether Mixtures. ASLE Transactions, 1981, 24, 542-548.	0.6	15

#	Article	IF	Citations
235	Oxidative Wear in Lubricated Contact. Journal of Lubrication Technology, 1980, 102, 539-544.	0.1	32
236	Scuffing as a Desorption Processâ€"An Explanation of the Borsoff Effect. ASLE Transactions, 1974, 17, 92-96.	0.6	38
237	Additive Interference in Dibenzyl Disulfide Extreme Pressure Lubrication. ASLE Transactions, 1974, 17, 283-289.	0.6	49
238	Friction and Wear Reduction by Boundary Film-Forming Viscosity Index Improvers. , 0, , .		28
239	Behavior of Viscosity Index Improver-Containing Oils in Non-Steady State Contacts. , 0, , .		0
240	Film-Forming Properties of Zinc-Based and Ashless Antiwear Additives. , 0, , .		16
241	Influence of Polyalkylmethacrylate Viscosity Index Improvers on the Efficiency of Lubricants. , 0, , .		11
242	Influence of polymethacrylate viscosity index improvers on friction and wear of lubricant formulations. , 0, , .		9
243	Advances in Tribological Design of Poly(alkyl methacrylate) Viscosity Index Improvers. , 0, , .		2
244	EFFECTS OF ETHANOL ON FILM THICKNESS AND FRICTION OF GROUP ONE ENGINE OILS. , 0, , .		0