

Michael Khonsari

List of Publications by Year in descending order

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397
papers

12,020
citations

30070

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435
all docs

435
docs citations

435
times ranked

4272
citing authors

#	ARTICLE	IF	CITATIONS
1	An Experimental Investigation of Dimple Effect on the Stribeck Curve of Journal Bearings. Tribology Letters, 2007, 27, 169-176.	2.6	221
2	The Stribeck Curve: Experimental Results and Theoretical Prediction. Journal of Tribology, 2006, 128, 789.	1.9	194
3	On the thermodynamic entropy of fatigue fracture. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2010, 466, 423-438.	2.1	193
4	Experimental investigation of tribological performance of laser textured stainless steel rings. Tribology International, 2011, 44, 635-644.	5.9	181
5	Rapid determination of fatigue failure based on temperature evolution: Fully reversed bending load. International Journal of Fatigue, 2010, 32, 382-389.	5.7	162
6	On the Prediction of Cavitation in Dimples Using a Mass-Conservative Algorithm. Journal of Tribology, 2009, 131, .	1.9	158
7	On the Thermodynamics of Friction and Wear—A Review. Entropy, 2010, 12, 1021-1049.	2.2	155
8	On the thermodynamics of degradation. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2008, 464, 2001-2014.	2.1	149
9	Validation simulations for the variational approach to fracture. Computer Methods in Applied Mechanics and Engineering, 2015, 290, 420-437.	6.6	142
10	Experimental testing and thermal analysis of ball bearings. Tribology International, 2013, 60, 93-103.	5.9	140
11	On the Performance of Finite Journal Bearings Lubricated with Micropolar Fluids. Tribology Transactions, 1989, 32, 155-160.	2.0	126
12	Film Thickness and Asperity Load Formulas for Line-Contact Elastohydrodynamic Lubrication With Provision for Surface Roughness. Journal of Tribology, 2012, 134, .	1.9	123
13	Numerical optimization of texture shape for parallel surfaces under unidirectional and bidirectional sliding. Tribology International, 2015, 82, 1-11.	5.9	116
14	On the effect of surface roughness in point-contact EHL: Formulas for film thickness and asperity load. Tribology International, 2015, 82, 228-244.	5.9	114
15	Dissipated thermal energy and damage evolution of Glass/Epoxy using infrared thermography and acoustic emission. Composites Part B: Engineering, 2012, 43, 1613-1620.	12.0	110
16	Asperity micro-contact models as applied to the deformation of rough line contact. Tribology International, 2012, 52, 61-74.	5.9	110
17	Wear anisotropy of selective laser melted 316L stainless steel. Wear, 2019, 428-429, 376-386.	3.1	103
18	Hydrodynamic Analysis of Compliant Foil Bearings With Compressible Air Flow. Journal of Tribology, 2004, 126, 542-546.	1.9	98

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19	Theoretical and experimental investigation of traction coefficient in line-contact EHL of rough surfaces. Tribology International, 2014, 70, 179-189.	5.9	94
20	On the Generalization of Thermohydrodynamic Analyses for Journal Bearings. Journal of Tribology, 1996, 118, 571-579.	1.9	93
21	An experimental approach to low-cycle fatigue damage based on thermodynamic entropy. International Journal of Solids and Structures, 2010, 47, 875-880.	2.7	93
22	The evolution of foil bearing technology. Tribology International, 2019, 135, 305-323.	5.9	93
23	A Thermohydrodynamic Analysis of Foil Journal Bearings. Journal of Tribology, 2006, 128, 534-541.	1.9	92
24	Life prediction of metals undergoing fatigue load based on temperature evolution. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 1555-1559.	5.6	92
25	An engineering approach for the prediction of wear in mixed lubricated contacts. Wear, 2013, 308, 121-131.	3.1	92
26	Thermohydrodynamic Analysis of Laminar Incompressible Journal Bearings. ASLE Transactions, 1986, 29, 141-150.	0.6	91
27	Performance Analysis of Full-Film Textured Surfaces With Consideration of Roughness Effects. Journal of Tribology, 2011, 133, .	1.9	91
28	Thermal influence on torque transfer of wet clutches in limited slip differential applications. Tribology International, 2007, 40, 876-884.	5.9	88
29	A Review of Thermal Effects in Hydrodynamic Bearings. Part II: Journal Bearings. ASLE Transactions, 1987, 30, 26-33.	0.6	87
30	On the optimum groove shapes for load-carrying capacity enhancement in parallel flat surface bearings: Theory and experiment. Tribology International, 2013, 67, 254-262.	5.9	87
31	Performance of Spur Gears Considering Surface Roughness and Shear Thinning Lubricant. Journal of Tribology, 2008, 130, .	1.9	85
32	Effect of Dimple's Internal Structure on Hydrodynamic Lubrication. Tribology Letters, 2013, 52, 415-430.	2.6	85
33	High-pressure rheology of lubricants and limitations of the Reynolds equation. Tribology International, 1998, 31, 573-586.	5.9	83
34	A Modification of the Switch Function in the Elrod Cavitation Algorithm. Journal of Tribology, 2011, 133, .	1.9	82
35	Thermal Characteristics of a Wet Clutch. Journal of Tribology, 1999, 121, 610-617.	1.9	81
36	An Experimental Approach to Evaluate the Critical Damage. International Journal of Damage Mechanics, 2011, 20, 89-112.	4.2	81

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37	Granular Lubrication: Toward an Understanding of the Transition Between Kinetic and Quasi-Fluid Regime. <i>Journal of Tribology</i> , 2004, 126, 137-145.	1.9	78
38	An investigation into the transient behavior of journal bearing with surface texture based on fluid-structure interaction approach. <i>Tribology International</i> , 2018, 118, 246-255.	5.9	75
39	Thermodynamic analysis of fatigue failure in a composite laminate. <i>Mechanics of Materials</i> , 2012, 46, 113-122.	3.2	73
40	On The Fluid-Solid Interaction in Reference to Thermoelastohydrodynamic Analysis of Journal Bearings. <i>Journal of Tribology</i> , 1991, 113, 398-404.	1.9	72
41	On the Role of Entropy Generation in Processes Involving Fatigue. <i>Entropy</i> , 2012, 14, 24-31.	2.2	72
42	A Review of Thermal Effects in Hydrodynamic Bearings Part I: Slider and Thrust Bearings. <i>ASLE Transactions</i> , 1987, 30, 19-25.	0.6	69
43	A thermodynamic approach to fatigue damage accumulation under variable loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 6133-6139.	5.6	69
44	On the Characteristics of Misaligned Journal Bearings. <i>Lubricants</i> , 2015, 3, 27-53.	2.9	66
45	Wear simulation for the journal bearings operating under aligned shaft and steady load during start-up and coast-down conditions. <i>Tribology International</i> , 2016, 97, 440-466.	5.9	63
46	Stability Boundary of Non-Linear Orbits Within Clearance Circle of Journal Bearings. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 1993, 115, 303-307.	1.6	62
47	On the degradation of superhydrophobic surfaces: A review. <i>Wear</i> , 2017, 372-373, 145-157.	3.1	61
48	An experimental approach to estimate damage and remaining life of metals under uniaxial fatigue loading. <i>Materials & Design</i> , 2014, 57, 289-297.	5.1	60
49	An engineering approach for rapid evaluation of traction coefficient and wear in mixed EHL. <i>Tribology International</i> , 2015, 92, 184-190.	5.9	60
50	Bifurcation Analysis of a Flexible Rotor Supported by Two Fluid-Film Journal Bearings. <i>Journal of Tribology</i> , 2006, 128, 594-603.	1.9	58
51	Investigation of tribological behaviors of annular rings with spiral groove. <i>Tribology International</i> , 2011, 44, 1610-1619.	5.9	58
52	On the correlation between wear and entropy in dry sliding contact. <i>Wear</i> , 2011, 270, 781-790.	3.1	58
53	On the elastohydrodynamic analysis of shear-thinning fluids. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2007, 463, 3271-3290.	2.1	57
54	Thermocapillary Migration of Liquid Droplets Induced by a Unidirectional Thermal Gradient. <i>Langmuir</i> , 2016, 32, 7485-7492.	3.5	57

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55	On the role of lubricant rheology and piezo-viscous properties in line and point contact EHL. Tribology International, 2009, 42, 1522-1530.	5.9	56
56	Effect of Surface Pattern on Stribeck Curve. Tribology Letters, 2010, 37, 477-486.	2.6	56
57	Experimental and theoretical investigation of running-in. Tribology International, 2011, 44, 92-100.	5.9	56
58	Probabilistic simulation of fatigue damage and life scatter of metallic components. International Journal of Plasticity, 2013, 43, 101-115.	8.8	56
59	On the evaluation of fracture fatigue entropy. Theoretical and Applied Fracture Mechanics, 2018, 96, 351-361.	4.7	56
60	On the prediction of steady-state wear rate in spur gears. Wear, 2015, 342-343, 234-243.	3.1	55
61	Friction and wear characteristics of ceramic nanocomposite coatings: Titanium carbide/amorphous hydrocarbon. Applied Physics Letters, 2001, 79, 329-331.	3.3	54
62	Thermoelastohydrodynamic Analysis of Spur Gears with Consideration of Surface Roughness. Tribology Letters, 2008, 32, 129-141.	2.6	54
63	On the Prediction of Running-In Behavior in Mixed-Lubrication Line Contact. Journal of Tribology, 2010, 132, .	1.9	54
64	On the role of internal friction in low-and high-cycle fatigue. International Journal of Fatigue, 2018, 114, 159-166.	5.7	54
65	On the role of damage energy in the fatigue degradation characterization of a composite laminate. Composites Part B: Engineering, 2013, 45, 528-537.	12.0	53
66	Parametric analysis for a paper-based wet clutch with groove consideration. Tribology International, 2014, 80, 222-233.	5.9	53
67	On the anelasticity and fatigue fracture entropy in high-cycle metal fatigue. Materials and Design, 2015, 82, 18-27.	7.0	52
68	Texture Shape Optimization for Seal-Like Parallel Surfaces: Theory and Experiment. Tribology Transactions, 2016, 59, 698-706.	2.0	52
69	On the thermally-induced seizure in bearings: A review. Tribology International, 2015, 91, 118-130.	5.9	51
70	A Thermodynamic Approach for Prediction of Wear Coefficient Under Unlubricated Sliding Condition. Tribology Letters, 2010, 38, 347-354.	2.6	50
71	Topological and shape optimization of thrust bearings for enhanced load-carrying capacity. Tribology International, 2012, 53, 12-21.	5.9	49
72	Effect of alloying elements on the γ/γ' antiphase boundary energy in Ni-base superalloys. Intermetallics, 2020, 117, 106670.	3.9	49

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73	On the Correlation Between Mechanical Degradation of Lubricating Grease and Entropy. Tribology Letters, 2014, 56, 197-204.	2.6	48
74	Rapid estimation of fatigue entropy and toughness in metals. Materials & Design, 2014, 62, 149-157.	5.1	48
75	Entropic characterization of metal fatigue with stress concentration. International Journal of Fatigue, 2015, 70, 223-234.	5.7	48
76	The effect of laser machined pockets on the lubrication of piston ring prototypes. Tribology International, 2016, 101, 273-283.	5.9	48
77	An Experimental Validation of the Recently Discovered Scale Effect in Generalized Newtonian EHL. Tribology Letters, 2009, 33, 127-135.	2.6	47
78	Prediction of Steady State Adhesive Wear in Spur Gears Using the EHL Load Sharing Concept. Journal of Tribology, 2009, 131, .	1.9	47
79	On the prediction of fatigue crack initiation in rolling/sliding contacts with provision for loading sequence effect. Tribology International, 2011, 44, 1620-1628.	5.9	47
80	On the Magnitude of Cavitation Pressure of Steady-State Lubrication. Tribology Letters, 2013, 51, 153-160.	2.6	47
81	On the self-excited whirl orbits of a journal in a sleeve bearing lubricated with micropolar fluids. Acta Mechanica, 1990, 81, 235-244.	2.1	46
82	Application of Transient Elastohydrodynamic Lubrication Analysis for Gear Transmissions. Tribology Transactions, 1995, 38, 905-913.	2.0	46
83	On the Limiting Load-Carrying Capacity of Foil Bearings. Journal of Tribology, 2004, 126, 817-818.	1.9	46
84	A thermographic method for remaining fatigue life prediction of welded joints. Materials & Design, 2013, 51, 916-923.	5.1	46
85	Thermal Elastohydrodynamic Analysis Using a Generalized Non-Newtonian Formulation With Application to Bair-Winer Constitutive Equation. Journal of Tribology, 1994, 116, 37-46.	1.9	45
86	Damage accumulation and crack initiation detection based on the evolution of surface roughness parameters. International Journal of Fatigue, 2018, 107, 130-144.	5.7	44
87	On the Lubrication Mechanism of Grain Flows. Tribology Transactions, 1994, 37, 516-524.	2.0	43
88	Notes on Transient THD Effects in a Lubricating Film. Tribology Transactions, 1992, 35, 177-183.	2.0	42
89	On the Lift-off Speed in Journal Bearings. Tribology Letters, 2005, 20, 299-305.	2.6	42
90	A finite element analysis of the frictional forces between a cylindrical bearing element and MoS ₂ coated and uncoated surfaces. Wear, 1996, 194, 60-70.	3.1	41

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91	The Effect of Load (Pressure) for Quantitative EHL Film Thickness. Tribology Letters, 2010, 37, 613-622.	2.6	41
92	Three-Dimensional Thermohydrodynamic Analysis of a Wet Clutch With Consideration of Grooved Friction Surfaces. Journal of Tribology, 2011, 133, .	1.9	41
93	Application of Hopf bifurcation theory to rotor-bearing systems with consideration of turbulent effects. Tribology International, 2006, 39, 701-714.	5.9	40
94	On Thermally Induced Seizure in Journal Bearings. Journal of Tribology, 1989, 111, 661-667.	1.9	39
95	CFD Based Design Techniques for Thermal Prediction in a Generic Two-Axial Groove Hydrodynamic Journal Bearing. Journal of Tribology, 1997, 119, 428-435.	1.9	37
96	Thermohydrodynamic Analysis of Spiral Groove Mechanical Face Seal for Liquid Applications. Journal of Tribology, 2012, 134, .	1.9	37
97	On the dynamic performance of roller bearings operating under low rotational speeds with consideration of surface roughness. Tribology International, 2015, 86, 62-71.	5.9	37
98	On the modeling of multi-body interaction problems in tribology. Wear, 1997, 207, 55-62.	3.1	36
99	Flow Characteristics of a Powder Lubricant Sheared Between Parallel Plates. Journal of Tribology, 2000, 122, 147-155.	1.9	36
100	On the Behavior of Misaligned Journal Bearings Based on Mass-Conservative Thermohydrodynamic Analysis. Journal of Tribology, 2010, 132, .	1.9	36
101	Tribological and Sealing Performance of Laser Pocketed Piston Rings in a Diesel Engine. Tribology Letters, 2016, 64, 1.	2.6	36
102	Adiabatic Shear Localization in a Liquid Lubricant Under Pressure. Journal of Tribology, 1994, 116, 705-708.	1.9	35
103	A generalized thermoelastic instability analysis. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2003, 459, 309-329.	2.1	35
104	Effects of oil inlet pressure and inlet position of axially grooved infinitely long journal bearings. Part I: Analytical solutions and static performance. Tribology International, 2008, 41, 119-131.	5.9	35
105	Energy dissipation in the course of the fatigue degradation: Mathematical derivation and experimental quantification. International Journal of Solids and Structures, 2015, 77, 74-85.	2.7	35
106	Generalized Boundary Interactions for Powder Lubricated Couette Flows. Journal of Tribology, 1996, 118, 580-588.	1.9	34
107	A thermodynamic approach for predicting fretting fatigue life. Tribology Letters, 2005, 19, 169-175.	2.6	34
108	On the wear prediction of the paper-based friction material in a wet clutch. Wear, 2015, 334-335, 56-66.	3.1	34

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109	On the wear of dynamically-loaded engine bearings with provision for misalignment and surface roughness. <i>Tribology International</i> , 2020, 141, 105919.	5.9	34
110	A comprehensive fatigue failure criterion based on thermodynamic approach. <i>Journal of Composite Materials</i> , 2012, 46, 437-447.	2.4	33
111	Effects of oil inlet pressure and inlet position of axially grooved infinitely long journal bearings. Part II: Nonlinear instability analysis. <i>Tribology International</i> , 2008, 41, 132-140.	5.9	32
112	On the integrated degradation coefficient for adhesive wear: A thermodynamic approach. <i>Wear</i> , 2018, 408-409, 138-150.	3.1	32
113	On the role of particulate contamination in scuffing failure. <i>Wear</i> , 1990, 137, 51-62.	3.1	31
114	An Analysis of Powder Lubricated Slider Bearings. <i>Journal of Tribology</i> , 1996, 118, 206-214.	1.9	31
115	Thermal and Dynamic Characterization of Wet Clutch Engagement With Provision for Drive Torque. <i>Journal of Tribology</i> , 2001, 123, 313-323.	1.9	31
116	Traction in EHL Line Contacts Using Free-Volume Pressure-Viscosity Relationship With Thermal and Shear-Thinning Effects. <i>Journal of Tribology</i> , 2009, 131, .	1.9	31
117	Prediction of Wear in Reciprocating Dry Sliding via Dissipated Energy and Temperature Rise. <i>Tribology Letters</i> , 2013, 50, 365-378.	2.6	31
118	On the thermally-induced failure of rolling element bearings. <i>Tribology International</i> , 2016, 94, 661-674.	5.9	31
119	Directional interfacial motion of liquids: Fundamentals, evaluations, and manipulation strategies. <i>Tribology International</i> , 2021, 154, 106749.	5.9	31
120	Numerical Simulations of the Flow Field Around the Rings of Mechanical Seals. <i>Journal of Tribology</i> , 2006, 128, 559-565.	1.9	31
121	On the Scuffing Failure of Hydrodynamic Bearings in the Presence of an Abrasive Contaminant. <i>Journal of Tribology</i> , 1999, 121, 90-96.	1.9	30
122	Thermal performance of mechanical seals with textured side-wall. <i>Tribology International</i> , 2012, 45, 1-7.	5.9	30
123	On the entropy of fatigue crack propagation. <i>International Journal of Fatigue</i> , 2020, 133, 105413.	5.7	30
124	Stability of a Rigid Rotor Supported on Flexible Oil Journal Bearings. <i>Journal of Tribology</i> , 1988, 110, 181-187.	1.9	29
125	On the granular lubrication theory. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2005, 461, 3255-3278.	2.1	29
126	Granular Collision Lubrication: Experimental Investigation and Comparison to Theory. <i>Journal of Tribology</i> , 2007, 129, 923-932.	1.9	29

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127	Combined Effects of Shear Thinning and Viscous Heating on EHL Characteristics of Rolling/Sliding Line Contacts. <i>Journal of Tribology</i> , 2008, 130, .	1.9	29
128	EHL Circular Contact Film Thickness Correction Factor for Shear-Thinning Fluids. <i>Journal of Tribology</i> , 2008, 130, .	1.9	29
129	Brittle rotational faults and the associated shear heating. <i>Marine and Petroleum Geology</i> , 2017, 88, 551-554.	3.3	29
130	On the application of fracture fatigue entropy to variable frequency and loading amplitude. <i>Theoretical and Applied Fracture Mechanics</i> , 2018, 98, 30-37.	4.7	29
131	Effect of Untampered Plasma Coating and Surface Texturing on Friction and Running-in Behavior of Piston Rings. <i>Coatings</i> , 2018, 8, 110.	2.6	29
132	On the running-in nature of metallic tribo-components: A review. <i>Wear</i> , 2021, 474-475, 203871.	3.1	29
133	Introduction to Thermodynamics of Mechanical Fatigue. , 0, , .		29
134	Thermoelastic Instability With Consideration of Surface Roughness and Hydrodynamic Lubrication. <i>Journal of Tribology</i> , 2000, 122, 725-732.	1.9	28
135	On the Hysteresis Phenomenon Associated With Instability of Rotor-Bearing Systems. <i>Journal of Tribology</i> , 2006, 128, 188-196.	1.9	28
136	A variational approach to the fracture of brittle thin films subject to out-of-plane loading. <i>Journal of the Mechanics and Physics of Solids</i> , 2013, 61, 2360-2379.	4.8	28
137	On the Modeling of Adhesive Wear with Consideration of Loading Sequence. <i>Tribology Letters</i> , 2018, 66, 1.	2.6	28
138	Finite element model of journal bearings undergoing rapid thermally induced seizure. <i>Tribology International</i> , 1992, 25, 177-182.	5.9	27
139	Heat Transfer in a Thin-Film Flow in the Presence of Squeeze and Shear Thinning: Application to Piston Rings. <i>Journal of Heat Transfer</i> , 1997, 119, 249-257.	2.1	27
140	Design of bearings on the basis of thermohydrodynamic analysis. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2004, 218, 355-363.	1.8	27
141	On the optimization of running-in operating conditions in applications involving EHL line contact. <i>Wear</i> , 2013, 303, 130-137.	3.1	27
142	On the running-in behavior of cam-follower mechanism. <i>Tribology International</i> , 2018, 118, 301-313.	5.9	27
143	Effect of viscous dissipation on the lubrication characteristics of micropolar fluids. <i>Acta Mechanica</i> , 1994, 105, 57-68.	2.1	26
144	Frictional Analysis of MoS ₂ Coated Ball Bearings: A Three-Dimensional Finite Element Analysis. <i>Journal of Tribology</i> , 1997, 119, 754-763.	1.9	26

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145	Surface Temperature in Oscillating Sliding Interfaces. <i>Journal of Tribology</i> , 2005, 127, 1-9.	1.9	26
146	On the fretting crack nucleation with provision for size effect. <i>Tribology International</i> , 2012, 47, 32-43.	5.9	26
147	A study on the effect of starvation in mixed elastohydrodynamic lubrication. <i>Tribology International</i> , 2015, 85, 26-36.	5.9	26
148	On Monitoring Physical and Chemical Degradation and Life Estimation Models for Lubricating Greases. <i>Lubricants</i> , 2016, 4, 34.	2.9	26
149	Material characterization and lubricating behaviors of porous stainless steel fabricated by selective laser melting. <i>Journal of Materials Processing Technology</i> , 2018, 262, 41-52.	6.3	26
150	Performance and characterization of dynamically-loaded engine bearings with provision for misalignment. <i>Tribology International</i> , 2019, 130, 387-399.	5.9	26
151	Thermoelastic behaviour of journal bearings undergoing seizure. <i>Tribology International</i> , 1992, 25, 183-187.	5.9	25
152	Thermally Induced Seizure in Journal Bearings During Startup and Transient Flow Disturbance. <i>Journal of Tribology</i> , 2003, 125, 833-841.	1.9	25
153	Prediction of the Stability Envelope of Rotor-Bearing System. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2006, 128, 197-202.	1.6	25
154	On the Contact of Curved Rough Surfaces: Contact Behavior and Predictive Formulas. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014, 81, .	2.2	25
155	On the Influence of Traction Coefficient on the Cage Angular Velocity in Roller Bearings. <i>Tribology Transactions</i> , 2014, 57, 793-805.	2.0	25
156	On the Applicability of Miner's Rule to Adhesive Wear. <i>Tribology Letters</i> , 2016, 63, 1.	2.6	25
157	Dynamics Analysis of Torsional Vibration Induced by Clutch and Gear Set in Automatic Transmission. <i>International Journal of Automotive Technology</i> , 2018, 19, 473-488.	1.4	25
158	A theoretical calculation of stacking fault energy of Ni alloys: The effects of temperature and composition. <i>Computational Materials Science</i> , 2021, 191, 110326.	3.0	25
159	A Theory of Liquid-Solid Lubrication in Elastohydrodynamic Regime. <i>Journal of Tribology</i> , 1989, 111, 440-444.	1.9	24
160	Thermohydrodynamic Design Charts for Slider Bearings. <i>Journal of Tribology</i> , 1997, 119, 733-740.	1.9	24
161	On the Formation of Hot Spots in Wet Clutch Systems. <i>Journal of Tribology</i> , 2002, 124, 336-345.	1.9	24
162	Effect of Contamination on the Performance of Hydrodynamic Bearings. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2006, 220, 419-428.	1.8	24

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163	Heat transfer correlations for laminar flows within a mechanical seal chamber. Tribology International, 2009, 42, 770-778.	5.9	24
164	Criticality of degradation in composite materials subjected to cyclic loading. Composites Part B: Engineering, 2014, 61, 375-382.	12.0	24
165	Inter-book normal fault-related shear heating in brittle bookshelf faults. Marine and Petroleum Geology, 2018, 97, 45-48.	3.3	24
166	Rapid prediction of fatigue life based on thermodynamic entropy generation. International Journal of Fatigue, 2021, 145, 106105.	5.7	24
167	A Continuum Theory of a Lubrication Problem With Solid Particles. Journal of Applied Mechanics, Transactions ASME, 1993, 60, 48-58.	2.2	23
168	A Theory of Hydrodynamic Lubrication Involving the Mixture of Two Fluids. Journal of Applied Mechanics, Transactions ASME, 1994, 61, 634-641.	2.2	23
169	Correction Factor Formula to Predict the Central and Minimum Film Thickness for Shear-Thinning Fluids in EHL. Journal of Tribology, 2008, 130, .	1.9	23
170	Analysis of conjugate heat transfer and turbulent flow in mechanical seals. Tribology International, 2009, 42, 762-769.	5.9	23
171	Prediction of wear in grease-lubricated oscillatory journal bearings via energy-based approach. Wear, 2014, 318, 188-201.	3.1	23
172	Acoustic Entropy of the Materials in the Course of Degradation. Entropy, 2016, 18, 280.	2.2	23
173	An engineering model to estimate consistency reduction of lubricating grease subjected to mechanical degradation under shear. Tribology International, 2016, 103, 465-474.	5.9	23
174	Viscosity wedge effect of dimpled surfaces considering cavitation effect. Tribology International, 2018, 122, 58-66.	5.9	23
175	On the thermoelastic instability of foil bearings. Tribology International, 2018, 121, 10-20.	5.9	23
176	Experimental Characterization of Sliding Friction: Crossing From Deformation to Plowing Contact. Journal of Tribology, 2000, 122, 856-863.	1.9	22
177	Effect of particle size dispersion on granular lubrication regimes. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2008, 222, 725-739.	1.8	22
178	An Application of Dimensional Analysis to Entropy-Wear Relationship. Journal of Tribology, 2012, 134, .	1.9	22
179	Overview: Additive Manufacturing Enabled Accelerated Design of Ni-based Alloys for Improved Fatigue Life. Additive Manufacturing, 2019, 29, 100779.	3.0	22
180	On the Degradation of Tribo-components in Boundary and Mixed Lubrication Regimes. Tribology Letters, 2019, 67, 1.	2.6	22

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181	On the intrinsic dissipation and fracture fatigue entropy of metals. <i>Mechanics of Materials</i> , 2021, 155, 103734.	3.2	22
182	Experimentally verified prediction of friction coefficient and wear rate during running-in dry contact. <i>Tribology International</i> , 2022, 170, 107508.	5.9	22
183	The Response of Balls Undergoing Oscillatory Motion: Crossing From Boundary to Mixed Lubrication Regimes. <i>Journal of Tribology</i> , 1993, 115, 261-266.	1.9	21
184	Computational Fluid Dynamics Analysis of Turbulent Flow Within a Mechanical Seal Chamber. <i>Journal of Tribology</i> , 2007, 129, 120-128.	1.9	21
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