

# Michael Khonsari

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/8709394/michael-khonsari-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

416  
papers

9,111  
citations

48  
h-index

70  
g-index

435  
ext. papers

10,392  
ext. citations

3.1  
avg, IF

7.08  
L-index

#	Paper	IF	Citations
4 <sup>16</sup>	Fatigue assessment of additively-manufactured C-18150 copper alloy at room and elevated temperatures via a microstructure-sensitive algorithm. <i>International Journal of Fatigue</i> , <b>2022</b> , 159, 1067-77	5.7	1
4 <sup>15</sup>	Strain energy-based fatigue failure analyses of LB-PBF Inconel 718: effect of build orientation. <i>Additive Manufacturing</i> , <b>2022</b> , 102661	6.1	0
4 <sup>14</sup>	Investigation of metal fatigue using a coupled entropy-kinetic model. <i>International Journal of Fatigue</i> , <b>2022</b> , 106907	5	0
4 <sup>13</sup>	Relationship between subsurface stress and wear particle size in sliding contacts during running-in. <i>Mechanics Research Communications</i> , <b>2022</b> , 103891	2.2	0
4 <sup>12</sup>	Experimentally verified prediction of friction coefficient and wear rate during running-in dry contact. <i>Tribology International</i> , <b>2022</b> , 170, 107508	4.9	2
4 <sup>11</sup>	On the thermohydrodynamic performance of aerated lubricants in steadily- and dynamically-loaded journal bearings. <i>Tribology International</i> , <b>2022</b> , 107606	4.9	1
4 <sup>10</sup>	Application of Continuum Damage Mechanics to Predict Wear in Systems Subjected to Variable Loading. <i>Tribology Letters</i> , <b>2021</b> , 69, 1	2.8	1
4 <sup>09</sup>	Some Fundamental Issues in Foil Bearings. <i>Lecture Notes in Mechanical Engineering</i> , <b>2021</b> , 317-325	0.4	
4 <sup>08</sup>	On the effect of internal friction on torsional and axial cyclic loading. <i>International Journal of Fatigue</i> , <b>2021</b> , 145, 106113	5	8
4 <sup>07</sup>	On the intrinsic dissipation and fracture fatigue entropy of metals. <i>Mechanics of Materials</i> , <b>2021</b> , 155, 103734	3.3	8
4 <sup>06</sup>	A theoretical calculation of stacking fault energy of Ni alloys: The effects of temperature and composition. <i>Computational Materials Science</i> , <b>2021</b> , 191, 110326	3.2	5
4 <sup>05</sup>	Rapid prediction of fatigue life based on thermodynamic entropy generation. <i>International Journal of Fatigue</i> , <b>2021</b> , 145, 106105	5	8
4 <sup>04</sup>	General quantification of fatigue damage with provision for microstructure: A review. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2021</b> , 44, 1973-1999	3	7
4 <sup>03</sup>	On the prediction of fatigue life subjected to variable loading sequence. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2021</b> , 44, 2962	3	3
4 <sup>02</sup>	On the running-in nature of metallic tribo-components: A review. <i>Wear</i> , <b>2021</b> , 474-475, 203871	3.5	8
4 <sup>01</sup>	Applying load-sharing method to the sliding contact in the presence of nano-lubricants. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2021</b> , 235, 786-797	1.4	2
4 <sup>00</sup>	In-situ Technique for Fatigue Life Prediction of Metals Based on Temperature Evolution. <i>International Journal of Mechanical Sciences</i> , <b>2021</b> , 192, 106113	5.5	3

399	Friction behavior of Radial Shaft Sealing Ring subjected to unsteady motion. <i>Mechanism and Machine Theory</i> , <b>2021</b> , 156, 104171	4	
398	Microstructure-sensitive estimation of fatigue life using cyclic thermodynamic entropy as an index for metals. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2021</b> , 112, 102854	3.7	8
397	Directional interfacial motion of liquids: Fundamentals, evaluations, and manipulation strategies. <i>Tribology International</i> , <b>2021</b> , 154, 106749	4.9	7
396	On the determination of cyclic plastic strain energy with the provision for microplasticity. <i>International Journal of Fatigue</i> , <b>2021</b> , 142, 105966	5	12
395	Evaluating Grease Degradation through Contact Angle Approach. <i>Lubricants</i> , <b>2021</b> , 9, 11	3.1	0
394	Experimental and numerical study of the running-in wear coefficient during dry sliding contact. <i>Surface Topography: Metrology and Properties</i> , <b>2021</b> , 9, 015009	1.5	2
393	Entropic Characterization of Fatigue in Composite Materials <b>2021</b> ,		2
392	Testing Grease Consistency. <i>Lubricants</i> , <b>2021</b> , 9, 14	3.1	3
391	An approach for fatigue life prediction based on external heating. <i>International Journal of Mechanical Sciences</i> , <b>2021</b> , 204, 106510	5.5	3
390	On the application of fracture fatigue entropy to multiaxial loading. <i>International Journal of Fatigue</i> , <b>2021</b> , 150, 106321	5	6
389	Experimentally validated thermodynamic theory of metal fatigue. <i>Mechanics of Materials</i> , <b>2021</b> , 160, 103927	3.3	4
388	A new model for fatigue life prediction under multiaxial loadings based on energy dissipation. <i>International Journal of Fatigue</i> , <b>2021</b> , 151, 106255	5	3
387	CFD investigation of oil-free granular lubrication. <i>Tribology International</i> , <b>2021</b> , 164, 107238	4.9	1
386	Application of thermoelectricity in fatigue of metals. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2021</b> , 44, 1162-1177	3	1
385	On the Recovery and Fatigue Life Extension of Stainless Steel 316 Metals by Means of Recovery Heat Treatment. <i>Metals</i> , <b>2020</b> , 10, 1290	2.3	
384	On the failure mechanisms of Cr-coated 316 stainless steel in bending fatigue tests. <i>International Journal of Fatigue</i> , <b>2020</b> , 139, 105733	5	2
383	A simple approach for predicting fatigue crack propagation rate based on thermography. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2020</b> , 107, 102534	3.7	11
382	Temperature-induced buckling of ductile metals during cyclic loading and the subsequent early fracture. <i>International Journal of Mechanical Sciences</i> , <b>2020</b> , 176, 105525	5.5	16

381	Characterization of abrasive wear using degradation coefficient. <i>Wear</i> , <b>2020</b> , 450-451, 203220	3.5	5
380	Theoretical and experimental analysis of relation between entropy and tension-compression fatigue of aluminum 6061-T6. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2020</b> , 42, 1	2	
379	Wetting translucency of graphene on plasmonic nanohole arrays. <i>2D Materials</i> , <b>2020</b> , 7, 011004	5.9	2
378	Thermographic evaluation of metal crack propagation during cyclic loading. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2020</b> , 105, 102385	3.7	9
377	Effect of alloying elements on the antiphase boundary energy in Ni-base superalloys. <i>Intermetallics</i> , <b>2020</b> , 117, 106670	3.5	19
376	On the entropy of fatigue crack propagation. <i>International Journal of Fatigue</i> , <b>2020</b> , 133, 105413	5	23
375	The Relation Between Subsurface Stresses and Useful Wear Life in Sliding Contacts. <i>Tribology Letters</i> , <b>2020</b> , 68, 1	2.8	2
374	Assessment of Water Contamination on Grease Using the Contact Angle Approach. <i>Tribology Letters</i> , <b>2020</b> , 68, 1	2.8	3
373	Characterization of multiple wear mechanisms through entropy. <i>Tribology International</i> , <b>2020</b> , 152, 106548	4.9	8
372	An Overview of Grease Water Resistance. <i>Lubricants</i> , <b>2020</b> , 8, 86	3.1	2
371	Online monitoring of metal fatigue life. <i>Structural Health Monitoring</i> , <b>2020</b> , 19, 938-952	4.4	2
370	Nondestructive estimation of remaining fatigue life without the loading history. <i>International Journal of Damage Mechanics</i> , <b>2020</b> , 29, 482-502	3	7
369	On the wear of dynamically-loaded engine bearings with provision for misalignment and surface roughness. <i>Tribology International</i> , <b>2020</b> , 141, 105919	4.9	12
368	The Use of Entropy in Modeling the Mechanical Degradation of Grease. <i>Lubricants</i> , <b>2019</b> , 7, 82	3.1	11
367	On the Assessment of Mechanical Degradation of Grease Using Entropy Generation Rate. <i>Tribology Letters</i> , <b>2019</b> , 67, 1	2.8	10
366	On the removal of extrusions and intrusions via repolishing to improve metal fatigue life. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2019</b> , 103, 102248	3.7	4
365	Experimental investigation of the chemical degradation of lubricating grease from an energy point of view. <i>Tribology International</i> , <b>2019</b> , 137, 289-302	4.9	12
364	Critical operating stress of persistent slip bands in Cu. <i>Computational Materials Science</i> , <b>2019</b> , 165, 114-120	3.0	8

363	Improvement of Tribological and Biocompatibility Properties of Orthopedic Materials Using Piezoelectric Direct Discharge Plasma Surface Modification. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 2147-2159	5.5	10
362	Experimental verification of textured mechanical seal designed using multi-objective optimization. <i>Industrial Lubrication and Tribology</i> , <b>2019</b> , 71, 766-771	1.3	5
361	The evolution of foil bearing technology. <i>Tribology International</i> , <b>2019</b> , 135, 305-323	4.9	40
360	Wear anisotropy of selective laser melted 316L stainless steel. <i>Wear</i> , <b>2019</b> , 428-429, 376-386	3.5	54
359	On the degradation of tribo-components undergoing oscillating sliding contact. <i>Tribology International</i> , <b>2019</b> , 135, 18-28	4.9	10
358	The thermocapillary migration on rough surfaces. <i>Lubrication Science</i> , <b>2019</b> , 31, 163-170	1.3	6
357	On the assessment of variable loading in adhesive wear. <i>Tribology International</i> , <b>2019</b> , 129, 167-176	4.9	7
356	Overview: Additive Manufacturing Enabled Accelerated Design of Ni-based Alloys for Improved Fatigue Life. <i>Additive Manufacturing</i> , <b>2019</b> , 29, 100779	6.1	18
355	Application of thermodynamic principles in determining the degradation of tribo-components subjected to oscillating motion in boundary and mixed lubrication regimes. <i>Wear</i> , <b>2019</b> , 436-437, 203002	2.5	8
354	On the Degradation of Tribo-components in Boundary and Mixed Lubrication Regimes. <i>Tribology Letters</i> , <b>2019</b> , 67, 1	2.8	15
353	On the onset of steady state during transient adhesive wear. <i>Tribology International</i> , <b>2019</b> , 130, 378-386	4.9	11
352	Non-destructive testing and fatigue life prediction at different environmental temperatures. <i>Infrared Physics and Technology</i> , <b>2019</b> , 96, 291-297	2.7	12
351	Performance and characterization of dynamically-loaded engine bearings with provision for misalignment. <i>Tribology International</i> , <b>2019</b> , 130, 387-399	4.9	10
350	Theoretical and experimental study on interdependence of wear and wetting in metallic surfaces. <i>Tribology International</i> , <b>2018</b> , 123, 61-70	4.9	2
349	Dynamics Analysis of Torsional Vibration Induced by Clutch and Gear Set in Automatic Transmission. <i>International Journal of Automotive Technology</i> , <b>2018</b> , 19, 473-488	1.6	19
348	Viscosity wedge effect of dimpled surfaces considering cavitation effect. <i>Tribology International</i> , <b>2018</b> , 122, 58-66	4.9	16
347	The limiting load-carrying capacity of foil thrust bearings. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2018</b> , 232, 1046-1052	1.4	2
346	On the thermoelastic instability of foil bearings. <i>Tribology International</i> , <b>2018</b> , 121, 10-20	4.9	14

345	Heat-transfer augmentation techniques to improve seal life. <i>Sealing Technology</i> , <b>2018</b> , 2018, 5-9	0.1	
344	Ringlike Migration of a Droplet Propelled by an Omnidirectional Thermal Gradient. <i>Langmuir</i> , <b>2018</b> , 34, 3806-3812	4	14
343	Damage accumulation and crack initiation detection based on the evolution of surface roughness parameters. <i>International Journal of Fatigue</i> , <b>2018</b> , 107, 130-144	5	33
342	An investigation into the transient behavior of journal bearing with surface texture based on fluid-structure interaction approach. <i>Tribology International</i> , <b>2018</b> , 118, 246-255	4.9	48
341	On the running-in behavior of cam-follower mechanism. <i>Tribology International</i> , <b>2018</b> , 118, 301-313	4.9	16
340	A method for correcting a moving heat source in analyses with coarse temporal discretization. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2018</b> , 232, 2736-2750	1.3	
339	Frequency dependent deformation reversibility during cyclic loading. <i>Materials Research Letters</i> , <b>2018</b> , 6, 390-397	7.4	14
338	Effect of Untampered Plasma Coating and Surface Texturing on Friction and Running-in Behavior of Piston Rings. <i>Coatings</i> , <b>2018</b> , 8, 110	2.9	21
337	Inter-book normal fault-related shear heating in brittle bookshelf faults. <i>Marine and Petroleum Geology</i> , <b>2018</b> , 97, 45-48	4.7	22
336	On the Modeling of Adhesive Wear with Consideration of Loading Sequence. <i>Tribology Letters</i> , <b>2018</b> , 66, 1	2.8	18
335	On the role of internal friction in low-and high-cycle fatigue. <i>International Journal of Fatigue</i> , <b>2018</b> , 114, 159-166	5	38
334	Neutron interferometry detection of early crack formation caused by bending fatigue in additively manufactured SS316 dogbones. <i>Materials and Design</i> , <b>2018</b> , 140, 420-430	8.1	18
333	On the application of fracture fatigue entropy to variable frequency and loading amplitude. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2018</b> , 98, 30-37	3.7	19
332	On the useful life of tribo-pairs experiencing variable loading and sliding speed. <i>Wear</i> , <b>2018</b> , 416-417, 103-114	3.5	8
331	Evaluation of fatigue performance of additively manufactured SS316 via internal damping. <i>Manufacturing Letters</i> , <b>2018</b> , 18, 12-15	4.5	3
330	On the integrated degradation coefficient for adhesive wear: A thermodynamic approach. <i>Wear</i> , <b>2018</b> , 408-409, 138-150	3.5	22
329	Material characterization and lubricating behaviors of porous stainless steel fabricated by selective laser melting. <i>Journal of Materials Processing Technology</i> , <b>2018</b> , 262, 41-52	5.3	17
328	On the evaluation of fracture fatigue entropy. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2018</b> , 96, 351-361	3.7	36

327	Mixed lubrication of soft contacts: An engineering look. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2017</b> , 231, 263-273	1.4	7
326	On the migration of a droplet on an incline. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 494, 8-14	9.3	10
325	Mechanical degradation of lubricating grease in an EHL line contact. <i>Tribology International</i> , <b>2017</b> , 109, 541-551	4.9	8
324	Parametric analysis of wear factors of a wet clutch friction material with different groove patterns. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2017</b> , 231, 1056-1067	1.4	6
323	Statistical Analysis of Surface Texture Performance With Provisions With Uncertainty in Texture Dimensions. <i>IEEE Access</i> , <b>2017</b> , 5, 5388-5398	3.5	8
322	On the effect of viscosity wedge in micro-textured parallel surfaces. <i>Tribology International</i> , <b>2017</b> , 107, 116-124	4.9	15
321	Tribology [Friction, Wear, and Lubrication <b>2017</b> , 1-22		
320	Gas Bearings <b>2017</b> , 395-432		
319	Principles and Operating Limits <b>2017</b> , 495-528		
318	Friction and Elastohydrodynamic Lubrication <b>2017</b> , 529-569		
317	Seals Fundamentals <b>2017</b> , 571-617		
316	Condition Monitoring and Failure Analysis <b>2017</b> , 619-638		
315	Lubricants and Lubrication <b>2017</b> , 23-63		
314	Surface Texture, Interaction of Surfaces and Wear <b>2017</b> , 65-133		
313	Bearing Materials <b>2017</b> , 135-157		
312	Fundamentals of Viscous Flow <b>2017</b> , 159-188		
311	Reynolds Equation and Applications <b>2017</b> , 189-219		
310	Thrust Bearings <b>2017</b> , 221-253		

309	Journal Bearings <b>2017</b> , 255-328		1
308	Squeeze-Film Bearings <b>2017</b> , 329-372		
307	Brittle rotational faults and the associated shear heating. <i>Marine and Petroleum Geology</i> , <b>2017</b> , 88, 551-554	2.4	25
306	On the Performance of EHL Contacts with Textured Surfaces. <i>Tribology Letters</i> , <b>2017</b> , 65, 1	2.8	13
305	On the degradation of superhydrophobic surfaces: A review. <i>Wear</i> , <b>2017</b> , 372-373, 145-157	3.5	44
304	Statistical Analysis of the Influence of Imperfect Texture Shape and Dimensional Uncertainty on Surface Texture Performance. <i>IEEE Access</i> , <b>2017</b> , 5, 27023-27035	3.5	5
303	<b>2017</b> ,		52
302	Analysis and life prediction of a composite laminate under cyclic loading. <i>Composites Part B: Engineering</i> , <b>2016</b> , 84, 98-108	10	15
301	Model validation and uncertainty analysis in the wear prediction of a wet clutch. <i>Wear</i> , <b>2016</b> , 364-365, 112-121	3.5	9
300	An engineering model to estimate consistency reduction of lubricating grease subjected to mechanical degradation under shear. <i>Tribology International</i> , <b>2016</b> , 103, 465-474	4.9	16
299	On the Applicability of Miner's Rule to Adhesive Wear. <i>Tribology Letters</i> , <b>2016</b> , 63, 1	2.8	20
298	Thermocapillary Migration of Liquid Droplets Induced by a Unidirectional Thermal Gradient. <i>Langmuir</i> , <b>2016</b> , 32, 7485-92	4	38
297	Fundamentals of Hydrodynamic Bearings <b>2016</b> , 1-28		
296	Governing Equations for Dynamic Analysis <b>2016</b> , 29-37		
295	Conventional Methods on System Instability Analysis <b>2016</b> , 39-57		
294	Introduction to Hopf Bifurcation Theory <b>2016</b> , 59-62		
293	Application of HBT to Fluid-Film Bearings <b>2016</b> , 63-90		
292	Analysis of Thermohydrodynamic Instability <b>2016</b> , 91-167		



291	Appendix C Curve-fitting Functions for Long Journal Bearings <b>2016</b> , 175-177		
290	Appendix A Derivation of the Dynamic Pressure for Long Journal Bearing <b>2016</b> , 169-172		
289	On the Prediction of Transient Wear. <i>Journal of Tribology</i> , <b>2016</b> , 138,	1.8	14
288	On the Relationship Between Journal Misalignment and Web Deflection in Crankshafts. <i>Journal of Engineering for Gas Turbines and Power</i> , <b>2016</b> , 138,	1.7	4
287	On the thermally-induced failure of rolling element bearings. <i>Tribology International</i> , <b>2016</b> , 94, 661-674	4.9	22
286	Acoustic Entropy of the Materials in the Course of Degradation. <i>Entropy</i> , <b>2016</b> , 18, 280	2.8	17
285	On Monitoring Physical and Chemical Degradation and Life Estimation Models for Lubricating Greases. <i>Lubricants</i> , <b>2016</b> , 4, 34	3.1	21
284	Appendix B Integrals Used in Section 1.3 <b>2016</b> , 173-174		
283	Appendix E Matlab Code to Evaluate Rotor Shaft Unbalance Effects <b>2016</b> , 183-191		
282	Appendix D Jacobian Matrix of the Equations of Motion <b>2016</b> , 179-181		
281	Application of a Thermodynamically Based Wear Estimation Methodology. <i>Journal of Tribology</i> , <b>2016</b> , 138,	1.8	11
280	Texture Shape Optimization for Seal-Like Parallel Surfaces: Theory and Experiment. <i>Tribology Transactions</i> , <b>2016</b> , 59, 698-706	1.8	35
279	Fatigue analysis of metals using damping parameter. <i>International Journal of Fatigue</i> , <b>2016</b> , 91, 124-135	5	14
278	Wear simulation for the journal bearings operating under aligned shaft and steady load during start-up and coast-down conditions. <i>Tribology International</i> , <b>2016</b> , 97, 440-466	4.9	39
277	Tribological Performance of Polyamide-Imide Seal Ring Under Seawater Lubrication. <i>Tribology Letters</i> , <b>2016</b> , 62, 1	2.8	13
276	The effect of laser machined pockets on the lubrication of piston ring prototypes. <i>Tribology International</i> , <b>2016</b> , 101, 273-283	4.9	36
275	Tribological and Sealing Performance of Laser Pocketed Piston Rings in a Diesel Engine. <i>Tribology Letters</i> , <b>2016</b> , 64, 1	2.8	25
274	On the anelasticity and fatigue fracture entropy in high-cycle metal fatigue. <i>Materials and Design</i> , <b>2015</b> , 82, 18-27	8.1	40

273	An engineering approach for rapid evaluation of traction coefficient and wear in mixed EHL. <i>Tribology International</i> , <b>2015</b> , 92, 184-190	4.9	32
272	On the thermally-induced seizure in bearings: A review. <i>Tribology International</i> , <b>2015</b> , 91, 118-130	4.9	33
271	On the wear prediction of the paper-based friction material in a wet clutch. <i>Wear</i> , <b>2015</b> , 334-335, 56-66	3.5	26
270	On the Characteristics of Misaligned Journal Bearings. <i>Lubricants</i> , <b>2015</b> , 3, 27-53	3.1	39
269	Energy dissipation in the course of the fatigue degradation: Mathematical derivation and experimental quantification. <i>International Journal of Solids and Structures</i> , <b>2015</b> , 77, 74-85	3.1	29
268	On the prediction of steady-state wear rate in spur gears. <i>Wear</i> , <b>2015</b> , 342-343, 234-243	3.5	36
267	On the effect of surface roughness in point-contact EHL: Formulas for film thickness and asperity load. <i>Tribology International</i> , <b>2015</b> , 82, 228-244	4.9	87
266	Improving thermal performance of mechanical seals via surface texturing. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2015</b> , 229, 350-361	1.4	4
265	Numerical optimization of texture shape for parallel surfaces under unidirectional and bidirectional sliding. <i>Tribology International</i> , <b>2015</b> , 82, 1-11	4.9	85
264	Entropic characterization of metal fatigue with stress concentration. <i>International Journal of Fatigue</i> , <b>2015</b> , 70, 223-234	5	34
263	Experimental Investigation on the Effect of Operating Conditions on the Running-in Behavior of Lubricated Elliptical Contacts. <i>Tribology Letters</i> , <b>2015</b> , 59, 1	2.8	13
262	Reply to Comment by Chung on On the Correlation Between Mechanical Degradation of Lubricating Grease and Entropy. <i>Tribology Letters</i> , <b>2015</b> , 60, 1	2.8	4
261	A study on the effect of starvation in mixed elastohydrodynamic lubrication. <i>Tribology International</i> , <b>2015</b> , 85, 26-36	4.9	21
260	Improving Bearings Thermal and Tribological Performance with Built-In Heat Pipe. <i>Tribology Letters</i> , <b>2015</b> , 57, 1	2.8	2
259	Validation simulations for the variational approach to fracture. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2015</b> , 290, 420-437	5.7	114
258	On the dynamic performance of roller bearings operating under low rotational speeds with consideration of surface roughness. <i>Tribology International</i> , <b>2015</b> , 86, 62-71	4.9	26
257	Prediction of Crack Nucleation in Rough Line-Contact Fretting via Continuum Damage Mechanics Approach. <i>Tribology Letters</i> , <b>2014</b> , 53, 631-643	2.8	13
256	An experimental approach to estimate damage and remaining life of metals under uniaxial fatigue loading. <i>Materials &amp; Design</i> , <b>2014</b> , 57, 289-297		51

255	Theoretical and experimental investigation of traction coefficient in line-contact EHL of rough surfaces. <i>Tribology International</i> , <b>2014</b> , 70, 179-189	4.9	71
254	On the Influence of Traction Coefficient on the Cage Angular Velocity in Roller Bearings. <i>Tribology Transactions</i> , <b>2014</b> , 57, 793-805	1.8	18
253	Prediction of wear in grease-lubricated oscillatory journal bearings via energy-based approach. <i>Wear</i> , <b>2014</b> , 318, 188-201	3.5	17
252	Rapid estimation of fatigue entropy and toughness in metals. <i>Materials &amp; Design</i> , <b>2014</b> , 62, 149-157		40
251	Criticality of degradation in composite materials subjected to cyclic loading. <i>Composites Part B: Engineering</i> , <b>2014</b> , 61, 375-382	10	20
250	On the Correlation Between Mechanical Degradation of Lubricating Grease and Entropy. <i>Tribology Letters</i> , <b>2014</b> , 56, 197-204	2.8	32
249	On the Contact of Curved Rough Surfaces: Contact Behavior and Predictive Formulas. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2014</b> , 81,	2.7	20
248	Parametric analysis for a paper-based wet clutch with groove consideration. <i>Tribology International</i> , <b>2014</b> , 80, 222-233	4.9	40
247	Thermal performance of mechanical face seal with built-in heat pipe. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2014</b> , 228, 498-510	1.4	1
246	Mixed elastohydrodynamic lubrication line-contact formulas with different surface patterns. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2014</b> , 228, 849-859	1.4	12
245	Nondestructive Testing and Prediction of Remaining Fatigue Life of Metals. <i>Journal of Nondestructive Evaluation</i> , <b>2014</b> , 33, 309-316	2.1	7
244	Probabilistic simulation of fatigue damage and life scatter of metallic components. <i>International Journal of Plasticity</i> , <b>2013</b> , 43, 101-115	7.6	47
243	On the Magnitude of Cavitation Pressure of Steady-State Lubrication. <i>Tribology Letters</i> , <b>2013</b> , 51, 153-160	10	37
242	Effect of Surface Cooling on Fatigue Life Improvement. <i>Journal of Failure Analysis and Prevention</i> , <b>2013</b> , 13, 183-187	0.9	3
241	An engineering approach for the prediction of wear in mixed lubricated contacts. <i>Wear</i> , <b>2013</b> , 308, 121-134	13.4	63
240	Effect of Dimple Internal Structure on Hydrodynamic Lubrication. <i>Tribology Letters</i> , <b>2013</b> , 52, 415-430	2.8	67
239	On the optimum groove shapes for load-carrying capacity enhancement in parallel flat surface bearings: Theory and experiment. <i>Tribology International</i> , <b>2013</b> , 67, 254-262	4.9	63
238	A thermographic method for remaining fatigue life prediction of welded joints. <i>Materials &amp; Design</i> , <b>2013</b> , 51, 916-923		31

237	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> , <b>2013</b> , 61, 2360-2379	5	26
236	Deterministic surface tractions in rough contact under stick-slip condition: Application to fretting fatigue crack initiation. <i>International Journal of Fatigue</i> , <b>2013</b> , 56, 75-85	5	11
235	On the optimization of running-in operating conditions in applications involving EHL line contact. <i>Wear</i> , <b>2013</b> , 303, 130-137	3.5	21
234	Experimental testing and thermal analysis of ball bearings. <i>Tribology International</i> , <b>2013</b> , 60, 93-103	4.9	93
233	Prediction of Wear in Reciprocating Dry Sliding via Dissipated Energy and Temperature Rise. <i>Tribology Letters</i> , <b>2013</b> , 50, 365-378	2.8	25
232	On the role of damage energy in the fatigue degradation characterization of a composite laminate. <i>Composites Part B: Engineering</i> , <b>2013</b> , 45, 528-537	10	45
231	On the role of cooling on fatigue failure of a woven glass/epoxy laminate. <i>Journal of Composite Materials</i> , <b>2013</b> , 47, 1803-1815	2.7	9
230	Stochastic analysis of inter- and intra-laminar damage in notched PEEK laminates. <i>EXPRESS Polymer Letters</i> , <b>2013</b> , 7, 383-395	3.4	16
229	On the modeling and shape optimization of hydrodynamic flexible-pad thrust bearings. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2013</b> , 227, 548-558	1.4	5
228	A Review of Mechanical Seals Heat Transfer Augmentation Techniques. <i>Recent Patents on Mechanical Engineering</i> , <b>2013</b> , 6, 87-96	0.3	6
227	Thermodynamic analysis of fatigue failure in a composite laminate. <i>Mechanics of Materials</i> , <b>2012</b> , 46, 113-122	3.3	66
226	Thermal performance of mechanical seals with textured side-wall. <i>Tribology International</i> , <b>2012</b> , 45, 1-7	4.9	24
225	On the fretting crack nucleation with provision for size effect. <i>Tribology International</i> , <b>2012</b> , 47, 32-43	4.9	24
224	Asperity micro-contact models as applied to the deformation of rough line contact. <i>Tribology International</i> , <b>2012</b> , 52, 61-74	4.9	77
223	Topological and shape optimization of thrust bearings for enhanced load-carrying capacity. <i>Tribology International</i> , <b>2012</b> , 53, 12-21	4.9	45
222	A comprehensive fatigue failure criterion based on thermodynamic approach. <i>Journal of Composite Materials</i> , <b>2012</b> , 46, 437-447	2.7	27
221	On the Role of Entropy Generation in Processes Involving Fatigue. <i>Entropy</i> , <b>2012</b> , 14, 24-31	2.8	55
220	Nondestructive Estimation of Remaining Fatigue Life: Thermography Technique. <i>Journal of Failure Analysis and Prevention</i> , <b>2012</b> , 12, 683-688	0.9	15

219	Dissipated thermal energy and damage evolution of Glass/Epoxy using infrared thermography and acoustic emission. <i>Composites Part B: Engineering</i> , <b>2012</b> , 43, 1613-1620	10	91
218	An Application of Dimensional Analysis to Entropy-Wear Relationship. <i>Journal of Tribology</i> , <b>2012</b> , 134,	1.8	19
217	Film Thickness and Asperity Load Formulas for Line-Contact Elastohydrodynamic Lubrication With Provision for Surface Roughness. <i>Journal of Tribology</i> , <b>2012</b> , 134,	1.8	77
216	Thermohydrodynamic Analysis of Spiral Groove Mechanical Face Seal for Liquid Applications. <i>Journal of Tribology</i> , <b>2012</b> , 134,	1.8	27
215	A Modification of the Switch Function in the Elrod Cavitation Algorithm. <i>Journal of Tribology</i> , <b>2011</b> , 133,	1.8	61
214	On the Shape Optimization of Self-Adaptive Grooves. <i>Tribology Transactions</i> , <b>2011</b> , 54, 256-264	1.8	15
213	Investigation of tribological behaviors of annular rings with spiral groove. <i>Tribology International</i> , <b>2011</b> , 44, 1610-1619	4.9	40
212	On the prediction of fatigue crack initiation in rolling/sliding contacts with provision for loading sequence effect. <i>Tribology International</i> , <b>2011</b> , 44, 1620-1628	4.9	40
211	On the Characterization of Thermal-Conductivity Degradation During Torsional Fatigue. <i>International Journal of Thermophysics</i> , <b>2011</b> , 32, 693-703	2.1	1
210	On the correlation between wear and entropy in dry sliding contact. <i>Wear</i> , <b>2011</b> , 270, 781-790	3.5	41
209	Experimental and theoretical investigation of running-in. <i>Tribology International</i> , <b>2011</b> , 44, 92-100	4.9	42
208	Experimental investigation of tribological performance of laser textured stainless steel rings. <i>Tribology International</i> , <b>2011</b> , 44, 635-644	4.9	148
207	Three-Dimensional Thermohydrodynamic Analysis of a Wet Clutch With Consideration of Grooved Friction Surfaces. <i>Journal of Tribology</i> , <b>2011</b> , 133,	1.8	32
206	Three-Dimensional Heat Transfer Analysis of Pin-Bushing System With Oscillatory Motion: Theory and Experiment. <i>Journal of Tribology</i> , <b>2011</b> , 133,	1.8	3
205	Performance Analysis of Full-Film Textured Surfaces With Consideration of Roughness Effects. <i>Journal of Tribology</i> , <b>2011</b> , 133,	1.8	81
204	An Experimental Approach to Evaluate the Critical Damage. <i>International Journal of Damage Mechanics</i> , <b>2011</b> , 20, 89-112	3	65
203	On the effects of sliding velocity and operating pressure differential in rotary O-ring seals. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2010</b> , 224, 649-657	1.4	3
202	On the thermodynamic entropy of fatigue fracture. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2010</b> , 466, 423-438	2.4	153

201	Anharmonic variations in elastohydrodynamic film thickness resulting from harmonically varying entrainment velocity. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2010</b> , 224, 239-247	1.4	4
200	Condition Monitoring of Molybdenum Disulphide Coated Thrust Ball Bearings Using Time-Frequency Signal Analysis. <i>Journal of Tribology</i> , <b>2010</b> , 132,	1.8	8
199	On the Behavior of Misaligned Journal Bearings Based on Mass-Conservative Thermohydrodynamic Analysis. <i>Journal of Tribology</i> , <b>2010</b> , 132,	1.8	29
198	Elastohydrodynamic Line-Contact of Compressible Shear Thinning Fluids With Consideration of the Surface Roughness. <i>Journal of Tribology</i> , <b>2010</b> , 132,	1.8	9
197	On the Prediction of Running-In Behavior in Mixed-Lubrication Line Contact. <i>Journal of Tribology</i> , <b>2010</b> , 132,	1.8	46
196	On Self-Adaptive Surface Grooves. <i>Tribology Transactions</i> , <b>2010</b> , 53, 871-880	1.8	8
195	On the Behavior of Friction in Lubricated Point Contact With Provision for Surface Roughness. <i>Journal of Tribology</i> , <b>2010</b> , 132,	1.8	5
194	On the Modeling of Quasi-Steady and Unsteady Dynamic Friction in Sliding Lubricated Line Contact. <i>Journal of Tribology</i> , <b>2010</b> , 132,	1.8	10
193	On the Thermodynamics of Friction and Wear A Review. <i>Entropy</i> , <b>2010</b> , 12, 1021-1049	2.8	134
192	A thermodynamic approach to fatigue damage accumulation under variable loading. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 6133-6139	5.3	52
191	Effect of Surface Pattern on Stribeck Curve. <i>Tribology Letters</i> , <b>2010</b> , 37, 477-486	2.8	44
190	The Effect of Load (Pressure) for Quantitative EHL Film Thickness. <i>Tribology Letters</i> , <b>2010</b> , 37, 613-622	2.8	36
189	On the Relationship Between Wear and Thermal Response in Sliding Systems. <i>Tribology Letters</i> , <b>2010</b> , 38, 147-154	2.8	14
188	A Thermodynamic Approach for Prediction of Wear Coefficient Under Unlubricated Sliding Condition. <i>Tribology Letters</i> , <b>2010</b> , 38, 347-354	2.8	39
187	Life prediction of metals undergoing fatigue load based on temperature evolution. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 1555-1559	5.3	68
186	Rapid determination of fatigue failure based on temperature evolution: Fully reversed bending load. <i>International Journal of Fatigue</i> , <b>2010</b> , 32, 382-389	5	132
185	On the tribological behavior of MoS <sub>2</sub> -coated thrust ball bearings operating under oscillating motion. <i>Wear</i> , <b>2010</b> , 269, 547-556	3.5	14
184	An experimental approach to low-cycle fatigue damage based on thermodynamic entropy. <i>International Journal of Solids and Structures</i> , <b>2010</b> , 47, 875-880	3.1	67

183	On the Temperature Rise of Bodies Subjected to Unidirectional or Oscillating Frictional Heating and Surface Convective Cooling. <i>Tribology Transactions</i> , <b>2009</b> , 52, 310-322	1.8	4
182	Traction in EHL Line Contacts Using Free-Volume Pressure-Viscosity Relationship With Thermal and Shear-Thinning Effects. <i>Journal of Tribology</i> , <b>2009</b> , 131,	1.8	26
181	On the Prediction of Cavitation in Dimples Using a Mass-Conservative Algorithm. <i>Journal of Tribology</i> , <b>2009</b> , 131,	1.8	129
180	A thermohydrodynamic analysis of a lubrication film between rough seal faces. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2009</b> , 223, 665-673	1.4	7
179	Transient heat conduction in rolling/sliding components by a dual reciprocity boundary element method. <i>International Journal of Heat and Mass Transfer</i> , <b>2009</b> , 52, 1600-1607	4.9	12
178	An Experimental Validation of the Recently Discovered Scale Effect in Generalized Newtonian EHL. <i>Tribology Letters</i> , <b>2009</b> , 33, 127-135	2.8	42
177	Thermomechanical effects on transient temperature in non-conformal contacts experiencing reciprocating sliding motion. <i>International Journal of Heat and Mass Transfer</i> , <b>2009</b> , 52, 4390-4399	4.9	5
176	Heat transfer correlations for laminar flows within a mechanical seal chamber. <i>Tribology International</i> , <b>2009</b> , 42, 770-778	4.9	19
175	Analysis of conjugate heat transfer and turbulent flow in mechanical seals. <i>Tribology International</i> , <b>2009</b> , 42, 762-769	4.9	19
174	On the role of lubricant rheology and piezo-viscous properties in line and point contact EHL. <i>Tribology International</i> , <b>2009</b> , 42, 1522-1530	4.9	46
173	Online coated ball bearing health monitoring using degree of randomness and Hidden Markov Model <b>2009</b> ,		1
172	Thermomechanical Coupling in Oscillatory Systems With Application to Journal Bearing Seizure. <i>Journal of Tribology</i> , <b>2009</b> , 131,	1.8	2
171	Full EHL Simulations Using the Actual ReeEyring Model for Shear-Thinning Lubricants. <i>Journal of Tribology</i> , <b>2009</b> , 131,	1.8	15
170	Prediction of Steady State Adhesive Wear in Spur Gears Using the EHL Load Sharing Concept. <i>Journal of Tribology</i> , <b>2009</b> , 131,	1.8	32
169	On the thermodynamics of degradation. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2008</b> , 464, 2001-2014	2.4	119
168	Effect of particle size dispersion on granular lubrication regimes. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2008</b> , 222, 725-739	1.4	22
167	Combined Effects of Shear Thinning and Viscous Heating on EHL Characteristics of Rolling/Sliding Line Contacts. <i>Journal of Tribology</i> , <b>2008</b> , 130,	1.8	25
166	EHL Circular Contact Film Thickness Correction Factor for Shear-Thinning Fluids. <i>Journal of Tribology</i> , <b>2008</b> , 130,	1.8	28

165	Performance of Spur Gears Considering Surface Roughness and Shear Thinning Lubricant. <i>Journal of Tribology</i> , <b>2008</b> , 130,	1.8	67
164	Scale Effects in Generalized Newtonian Elastohydrodynamic Films. <i>Journal of Tribology</i> , <b>2008</b> , 130,	1.8	12
163	On the effect of enduring contact on the flow and thermal characteristics in powder lubrication. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2008</b> , 222, 741-759	1.4	7
162	A note on the lubricating film in hydrostatic mechanical face seals. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2008</b> , 222, 559-567	1.4	1
161	Linear Squeeze Film with Constant Rotational Speed. <i>Tribology Transactions</i> , <b>2008</b> , 51, 361-371	1.8	3
160	Correction Factor Formula to Predict the Central and Minimum Film Thickness for Shear-Thinning Fluids in EHL. <i>Journal of Tribology</i> , <b>2008</b> , 130,	1.8	17
159	Experimental Investigation on the Stick-Slip Phenomenon in Granular Collision Lubrication. <i>Journal of Tribology</i> , <b>2008</b> , 130,	1.8	20
158	An Experimental Study of Oil-Lubricated Journal Bearings Undergoing Oscillatory Motion. <i>Journal of Tribology</i> , <b>2008</b> , 130,	1.8	6
157	Thermoelastohydrodynamic Analysis of Spur Gears with Consideration of Surface Roughness. <i>Tribology Letters</i> , <b>2008</b> , 32, 129-141	2.8	44
156	Effect of Starvation on Traction and Film Thickness in Thermo-EHL Line Contacts with Shear-Thinning Lubricants. <i>Tribology Letters</i> , <b>2008</b> , 32, 171-177	2.8	15
155	Fretting behavior of a rubber coating: Effect of temperature and surface roughness variations. <i>Wear</i> , <b>2008</b> , 265, 620-625	3.5	11
154	Effects of oil inlet pressure and inlet position of axially grooved infinitely long journal bearings. Part I: Analytical solutions and static performance. <i>Tribology International</i> , <b>2008</b> , 41, 119-131	4.9	34
153	Effects of oil inlet pressure and inlet position of axially grooved infinitely long journal bearings. Part II: Nonlinear instability analysis. <i>Tribology International</i> , <b>2008</b> , 41, 132-140	4.9	30
152	<b>2008</b> ,		92
151	On the elastohydrodynamic analysis of shear-thinning fluids. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2007</b> , 463, 3271-3290	2.4	51
150	Analytical Formulation for the Temperature Profile by Duhamel's Theorem in Bodies Subjected to an Oscillatory Heat Source. <i>Journal of Heat Transfer</i> , <b>2007</b> , 129, 236-240	1.8	8
149	Thermal influence on torque transfer of wet clutches in limited slip differential applications. <i>Tribology International</i> , <b>2007</b> , 40, 876-884	4.9	73
148	An Experimental Investigation of Dimple Effect on the Stribeck Curve of Journal Bearings. <i>Tribology Letters</i> , <b>2007</b> , 27, 169-176	2.8	182



147	Computational Fluid Dynamics Analysis of Turbulent Flow Within a Mechanical Seal Chamber. <i>Journal of Tribology</i> , <b>2007</b> , 129, 120-128	1.8	15
146	An Experimental Study of Grease-Lubricated Journal Bearings Undergoing Oscillatory Motion. <i>Journal of Tribology</i> , <b>2007</b> , 129, 640-646	1.8	6
145	An Experimental Investigation of Grease-Lubricated Journal Bearings. <i>Journal of Tribology</i> , <b>2007</b> , 129, 84-90	1.8	12
144	Heat transfer analysis in mechanical seals using fin theory. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2007</b> , 221, 717-725	1.4	7
143	Granular Collision Lubrication: Experimental Investigation and Comparison to Theory. <i>Journal of Tribology</i> , <b>2007</b> , 129, 923-932	1.8	28
142	Transient Temperature Involving Oscillatory Heat Source With Application in Fretting Contact. <i>Journal of Tribology</i> , <b>2007</b> , 129, 517-527	1.8	16
141	Online tribology ball bearing fault detection and identification <b>2007</b> ,		1
140	Bifurcation Analysis of a Flexible Rotor Supported by Two Fluid-Film Journal Bearings. <i>Journal of Tribology</i> , <b>2006</b> , 128, 594-603	1.8	49
139	Influence of Inlet Oil Temperature on the Instability Threshold of Rotor-Bearing Systems. <i>Journal of Tribology</i> , <b>2006</b> , 128, 319-326	1.8	10
138	A Thermohydrodynamic Analysis of Foil Journal Bearings. <i>Journal of Tribology</i> , <b>2006</b> , 128, 534-541	1.8	67
137	Temperature Analysis of a Gasket for an Internal Combustion Engine. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2006</b> , 220, 793-803	1.4	
136	Effect of Contamination on the Performance of Hydrodynamic Bearings. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2006</b> , 220, 419-428	1.4	16
135	On the Role of Enduring Contact in Powder Lubrication. <i>Journal of Tribology</i> , <b>2006</b> , 128, 168-175	1.8	16
134	Reynolds Equations for Common Generalized Newtonian Models and an Approximate Reynolds-Carreau Equation. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2006</b> , 220, 365-374	1.4	14
133	Analysis of Heat Partitioning in Wheel/Rail and Wheel/Brake Shoe Friction Contact: An Analytical Approach. <i>Tribology Transactions</i> , <b>2006</b> , 49, 635-642	1.8	7
132	The Stribeck Curve: Experimental Results and Theoretical Prediction. <i>Journal of Tribology</i> , <b>2006</b> , 128, 789	1.8	157
131	Evaluation of Critical Design Factors on the Thermal Behavior Due to Frictional Heat in the Oscillatory Sliding Conformal Contact <b>2006</b> , 105		
130	Prediction of the Stability Envelope of Rotor-Bearing System. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2006</b> , 128, 197-202	1.6	20

129	On the Hysteresis Phenomenon Associated With Instability of Rotor-Bearing Systems. <i>Journal of Tribology</i> , <b>2006</b> , 128, 188-196	1.8	20
128	A new derivation for journal bearing stiffness and damping coefficients in polar coordinates. <i>Journal of Sound and Vibration</i> , <b>2006</b> , 290, 500-507	3.9	9
127	Fretting behavior of a rubber coating: Friction characteristics of rubber debris. <i>Wear</i> , <b>2006</b> , 261, 1114-1120	3.9	10
126	Application of Hopf bifurcation theory to rotor-bearing systems with consideration of turbulent effects. <i>Tribology International</i> , <b>2006</b> , 39, 701-714	4.9	34
125	Numerical Simulations of the Flow Field Around the Rings of Mechanical Seals. <i>Journal of Tribology</i> , <b>2006</b> , 128, 559-565	1.8	27
124	On the granular lubrication theory. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2005</b> , 461, 3255-3278	2.4	28
123	Surface Temperature in Oscillating Sliding Interfaces. <i>Journal of Tribology</i> , <b>2005</b> , 127, 1-9	1.8	18
122	Thermomechanical analysis of oscillatory pin-bushing performance. <i>Revue Europeenne Des Elements</i> , <b>2005</b> , 14, 255-269		2
121	Friction and wear of a rubber coating in fretting. <i>Wear</i> , <b>2005</b> , 258, 898-905	3.5	15
120	Generalized Reynolds equations for line contact with double-Newtonian shear-thinning. <i>Tribology Letters</i> , <b>2005</b> , 18, 513-520	2.8	9
119	A thermodynamic approach for predicting fretting fatigue life. <i>Tribology Letters</i> , <b>2005</b> , 19, 169-175	2.8	30
118	On the Lift-off Speed in Journal Bearings. <i>Tribology Letters</i> , <b>2005</b> , 20, 299-305	2.8	35
117	A simplified thermohydrodynamic stability analysis of journal bearings. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2005</b> , 219, 225-234	1.4	14
116	Influence of Drag Force on the Dynamic Performance of a Rotor-Bearing System. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2005</b> , 219, 291-295	1.4	5
115	On the Limiting Load-Carrying Capacity of Foil Bearings. <i>Journal of Tribology</i> , <b>2004</b> , 126, 817-818	1.8	35
114	Hydrodynamic Analysis of Compliant Foil Bearings With Compressible Air Flow. <i>Journal of Tribology</i> , <b>2004</b> , 126, 542-546	1.8	75
113	Thermoelastic Instability of Two-Conductor Friction System Including Surface Roughness. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2004</b> , 71, 57-68	2.7	8
112	On the Growth Rate of Thermoelastic Instability. <i>Journal of Tribology</i> , <b>2004</b> , 126, 50-55	1.8	14

111	Granular Lubrication: Toward an Understanding of the Transition Between Kinetic and Quasi-Fluid Regime. <i>Journal of Tribology</i> , <b>2004</b> , 126, 137-145	1.8	66
110	On the active stabilization of tilting-pad journal bearings. <i>Journal of Sound and Vibration</i> , <b>2004</b> , 273, 421-438	3.9	14
109	Design of bearings on the basis of thermohydrodynamic analysis. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2004</b> , 218, 355-363	1.4	22
108	On the thermoelastic instability of a thin-film-lubricated sliding contact: A closed-form solution. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2003</b> , 217, 197-204	1.4	5
107	Stability Boundaries of a Conservative Gyroscopic System. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2003</b> , 70, 561-567	2.7	
106	Flow Characterization and Performance of a Powder Lubricated Slider Bearing. <i>Journal of Tribology</i> , <b>2003</b> , 125, 135-144	1.8	11
105	Thermally Induced Seizure in Journal Bearings During Startup and Transient Flow Disturbance. <i>Journal of Tribology</i> , <b>2003</b> , 125, 833-841	1.8	22
104	A generalized thermoelastic instability analysis. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2003</b> , 459, 309-329	2.4	26
103	On the Formation of Hot Spots in Wet Clutch Systems. <i>Journal of Tribology</i> , <b>2002</b> , 124, 336-345	1.8	20
102	Application of analysis of variance to wet clutch engagement. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2002</b> , 216, 117-125	1.4	9
101	Influence of Inlet Conditions on the Thermohydrodynamic State of a Fully Circumferentially Grooved Journal Bearing. <i>Journal of Tribology</i> , <b>2001</b> , 123, 525-532	1.8	8
100	On the thermohydrodynamic analysis of a Bingham fluid in slider bearings. <i>Acta Mechanica</i> , <b>2001</b> , 148, 165-185	2.1	5
99	Thermal and Dynamic Characterization of Wet Clutch Engagement With Provision for Drive Torque. <i>Journal of Tribology</i> , <b>2001</b> , 123, 313-323	1.8	26
98	Scuffing Failure of Hydrodynamic Bearings Due to an Abrasive Contaminant Partially Penetrated in the Bearing Over-Layer. <i>Journal of Tribology</i> , <b>2001</b> , 123, 430-433	1.8	15
97	Friction and wear characteristics of ceramic nanocomposite coatings: Titanium carbide/amorphous hydrocarbon. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 329-331	3.4	47
96	Hydrodynamics of a Soft Contact Lens During Sliding Motion. <i>Journal of Tribology</i> , <b>2000</b> , 122, 573-577	1.8	12
95	Thermoelastic Instability With Consideration of Surface Roughness and Hydrodynamic Lubrication. <i>Journal of Tribology</i> , <b>2000</b> , 122, 725-732	1.8	23
94	Experimental Characterization of Sliding Friction: Crossing From Deformation to Plowing Contact. <i>Journal of Tribology</i> , <b>2000</b> , 122, 856-863	1.8	21

93	Flow Characteristics of a Powder Lubricant Sheared Between Parallel Plates. <i>Journal of Tribology</i> , <b>2000</b> , 122, 147-155	1.8	34
92	On the Scuffing Failure of Hydrodynamic Bearings in the Presence of an Abrasive Contaminant. <i>Journal of Tribology</i> , <b>1999</b> , 121, 90-96	1.8	23
91	Thermal Characteristics of a Wet Clutch. <i>Journal of Tribology</i> , <b>1999</b> , 121, 610-617	1.8	66
90	Thermoelastic Instability Including Surface Roughness Effects. <i>Journal of Tribology</i> , <b>1999</b> , 121, 648-654	1.8	15
89	On the Frictional Characteristics of Ball Bearings Coated With Solid Lubricants. <i>Journal of Tribology</i> , <b>1999</b> , 121, 761-767	1.8	8
88	High-pressure rheology of lubricants and limitations of the Reynolds equation. <i>Tribology International</i> , <b>1998</b> , 31, 573-586	4.9	70
87	Modeling Aspects of a Rate-Controlled Seizure in an Unloaded Journal Bearing. <i>Tribology Transactions</i> , <b>1998</b> , 41, 481-488	1.8	9
86	Thermohydrodynamic Seizure: Experimental and Theoretical Analysis. <i>Journal of Tribology</i> , <b>1998</b> , 120, 8-15	1.8	17
85	On the Choking of the Flow of Piezoviscous Liquids. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>1998</b> , 120, 621-625	2.1	1
84	CFD Based Design Techniques for Thermal Prediction in a Generic Two-Axial Groove Hydrodynamic Journal Bearing. <i>Journal of Tribology</i> , <b>1997</b> , 119, 428-435	1.8	32
83	Frictional Analysis of MoS <sub>2</sub> Coated Ball Bearings: A Three-Dimensional Finite Element Analysis. <i>Journal of Tribology</i> , <b>1997</b> , 119, 754-763	1.8	19
82	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> , <b>1997</b> , 119, 249-257	1.8	22
81	Parameter Identification of Hysteresis Friction for Coated Ball Bearings Based on Three-Dimensional FEM Analysis. <i>Journal of Tribology</i> , <b>1997</b> , 119, 462-470	1.8	14
80	Thermohydrodynamic Design Charts for Slider Bearings. <i>Journal of Tribology</i> , <b>1997</b> , 119, 733-740	1.8	21
79	Performance Analysis of Grease-Lubricated Journal Bearings Including Thermal Effects. <i>Journal of Tribology</i> , <b>1997</b> , 119, 859-868	1.8	7
78	On the modeling of multi-body interaction problems in tribology. <i>Wear</i> , <b>1997</b> , 207, 55-62	3.5	30
77	Dynamic Friction Measurements of MoS <sub>2</sub> Coated Ball Bearing Surfaces. <i>Journal of Tribology</i> , <b>1996</b> , 118, 858-864	1.8	8
76	An Analysis of Powder Lubricated Slider Bearings. <i>Journal of Tribology</i> , <b>1996</b> , 118, 206-214	1.8	27

75	Comparison of the Low-Speed Frictional Characteristics of Silicon Nitride and Steel Balls Using Conventional Lubricants. <i>Journal of Tribology</i> , <b>1996</b> , 118, 43-51	1.8	9
74	On the Generalization of Thermohydrodynamic Analyses for Journal Bearings. <i>Journal of Tribology</i> , <b>1996</b> , 118, 571-579	1.8	72
73	Elastohydrodynamic Lubrication by Powder Slurries. <i>Journal of Tribology</i> , <b>1996</b> , 118, 67-73	1.8	15
72	Generalized Boundary Interactions for Powder Lubricated Couette Flows. <i>Journal of Tribology</i> , <b>1996</b> , 118, 580-588	1.8	32
71	A finite element analysis of the frictional forces between a cylindrical bearing element and MoS <sub>2</sub> coated and uncoated surfaces. <i>Wear</i> , <b>1996</b> , 194, 60-70	3.5	35
70	Hydro-Roll: A Novel Bearing Design with Superior Thermal Characteristics. <i>Tribology Transactions</i> , <b>1996</b> , 39, 455-461	1.8	6
69	On the Modeling of a Thermomechanical Seizure. <i>Journal of Tribology</i> , <b>1995</b> , 117, 744-747	1.8	16
68	Application of Transient Elastohydrodynamic Lubrication Analysis for Gear Transmissions. <i>Tribology Transactions</i> , <b>1995</b> , 38, 905-913	1.8	38
67	Discussion: A Study of the Starting Characteristics of an Unlubricated Journal Bearing [Sun, D. C., and Jing Xu, 1995, ASME J. Tribol., 117, pp. 216-223]. <i>Journal of Tribology</i> , <b>1995</b> , 117, 223-223	1.8	
66	Discussion: Angular-Compliant Hydrodynamic Bearing Performance Under Dynamic Loads [Harnoy, A., and Rachoor, H., 1993, ASME J. Tribol., 115, pp. 342-347]. <i>Journal of Tribology</i> , <b>1994</b> , 116, 661-661	1.8	
65	Closure to Discussion of Adiabatic Shear Localization in a Liquid Lubricant Under Pressure [1994, ASME J. Tribol., 116, p. 709]. <i>Journal of Tribology</i> , <b>1994</b> , 116, 709-709	1.8	
64	Adiabatic Shear Localization in a Liquid Lubricant Under Pressure. <i>Journal of Tribology</i> , <b>1994</b> , 116, 705-708	1.8	28
63	A Theory of Hydrodynamic Lubrication Involving the Mixture of Two Fluids. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>1994</b> , 61, 634-641	2.7	20
62	Experimental Measurements of the Rest-Slope and Steady Torque on Ball Bearings Experiencing Small Angular Rotations. <i>Tribology Transactions</i> , <b>1994</b> , 37, 261-268	1.8	13
61	On the Lubrication Mechanism of Grain Flows. <i>Tribology Transactions</i> , <b>1994</b> , 37, 516-524	1.8	39
60	Effect of viscous dissipation on the lubrication characteristics of micropolar fluids. <i>Acta Mechanica</i> , <b>1994</b> , 105, 57-68	2.1	23
59	Thermal Elastohydrodynamic Analysis Using a Generalized Non-Newtonian Formulation With Application to Bair-Winer Constitutive Equation. <i>Journal of Tribology</i> , <b>1994</b> , 116, 37-46	1.8	38
58	Generalized Reynolds Equation for Solid-Liquid Lubricated Bearings. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>1994</b> , 61, 460-466	2.7	2

57	A Continuum Theory of a Lubrication Problem With Solid Particles. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>1993</b> , 60, 48-58	2.7	20
56	The Response of Balls Undergoing Oscillatory Motion: Crossing From Boundary to Mixed Lubrication Regimes. <i>Journal of Tribology</i> , <b>1993</b> , 115, 261-266	1.8	17
55	Stability Boundary of Non-Linear Orbits Within Clearance Circle of Journal Bearings. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>1993</b> , 115, 303-307	1.6	54
54	Low-Speed Friction Torque on Balls Undergoing Rolling Motion. <i>Tribology Transactions</i> , <b>1993</b> , 36, 290-296	6.8	13
53	Thermal Response of Rolling Components Under Mixed Boundary Conditions: An Analytical Approach. <i>Journal of Heat Transfer</i> , <b>1993</b> , 115, 857-865	1.8	2
52	On the Main Flow Pattern in Hydrocyclones. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>1993</b> , 115, 21-25	2.1	12
51	Generalized non-Newtonian elastohydrodynamic lubrication. <i>Tribology International</i> , <b>1993</b> , 26, 405-411	4.9	14
50	Evaluation of Ultra-Low-Speed Jitter in Rolling Balls. <i>Journal of Tribology</i> , <b>1992</b> , 114, 589-594	1.8	14
49	On the Mixture Flow Problem in Lubrication of Hydrodynamic Bearings: Small Solid Volume Fraction. <i>Tribology Transactions</i> , <b>1992</b> , 35, 45-52	1.8	8
48	Notes on Transient THD Effects in a Lubricating Film. <i>Tribology Transactions</i> , <b>1992</b> , 35, 177-183	1.8	39
47	Finite element model of journal bearings undergoing rapid thermally induced seizure. <i>Tribology International</i> , <b>1992</b> , 25, 177-182	4.9	23
46	Thermoelastic behaviour of journal bearings undergoing seizure. <i>Tribology International</i> , <b>1992</b> , 25, 183-187	1.7	23
45	Analytical solution for a mixture of a newtonian fluid and granules in hydrodynamic bearings. <i>Wear</i> , <b>1992</b> , 156, 327-344	3.5	5
44	On the solution of a lubrication problem with particulate solids. <i>International Journal of Engineering Science</i> , <b>1991</b> , 29, 1019-1033	5.7	9
43	On The Fluid-Solid Interaction in Reference to Thermoelastohydrodynamic Analysis of Journal Bearings. <i>Journal of Tribology</i> , <b>1991</b> , 113, 398-404	1.8	64
42	On the Maximum Temperature in Double-Layered Journal Bearings. <i>Journal of Tribology</i> , <b>1991</b> , 113, 464-489	4.8	12
41	A Theory of Thermo-Elastohydrodynamic Lubrication of Liquid-Solid Lubricated Cylinders. <i>Journal of Tribology</i> , <b>1990</b> , 112, 259-265	1.8	14
40	Discussion: A Finite Volume Analysis of the Thermohydrodynamic Performance of Finite Journal Bearings (Han, T., and Paranjpe, R. S., 1990, ASME J. Tribol., 112, pp. 557-565). <i>Journal of Tribology</i> , <b>1990</b> , 112, 565-565	1.8	

39	On the self-excited whirl orbits of a journal in a sleeve bearing lubricated with micropolar fluids. <i>Acta Mechanica</i> , <b>1990</b> , 81, 235-244	2.1	35
38	On the role of particulate contamination in scuffing failure. <i>Wear</i> , <b>1990</b> , 137, 51-62	3.5	25
37	On the Performance of Finite Journal Bearings Lubricated with Micropolar Fluids. <i>Tribology Transactions</i> , <b>1989</b> , 32, 155-160	1.8	114
36	Discussion: Thermally Induced Seizures of Journal Bearings (Dufrane, K. F., and Kannel, J. W., 1989, ASME J. Tribol., 111, pp. 288-292). <i>Journal of Tribology</i> , <b>1989</b> , 111, 292-292	1.8	1
35	A Theory of Liquid-Solid Lubrication in Elastohydrodynamic Regime. <i>Journal of Tribology</i> , <b>1989</b> , 111, 440-444	1.8	20
34	On Thermally Induced Seizure in Journal Bearings. <i>Journal of Tribology</i> , <b>1989</b> , 111, 661-667	1.8	35
33	Effect of Shaft Frequency on Cavitation in a Journal Bearing for Noncentered Circular Whirl. <i>Tribology Transactions</i> , <b>1988</b> , 31, 54-60	1.8	4
32	Thermohydrodynamic Analysis of Solid-Liquid Lubricated Journal Bearings. <i>Journal of Tribology</i> , <b>1988</b> , 110, 367-374	1.8	15
31	Stability of a Rigid Rotor Supported on Flexible Oil Journal Bearings. <i>Journal of Tribology</i> , <b>1988</b> , 110, 181-187	1.8	26
30	Discussion: The Effects of Fluid Inertia Forces on the Dynamic Behavior of Short Journal Bearings in Superlaminar Flow Regime (Hashimoto, H., Wada, S., and Sumitomo, M., 1988, ASME J. Tribol., 110, pp. 539-545). <i>Journal of Tribology</i> , <b>1988</b> , 110, 546-546	1.8	
29	A Review of Thermal Effects in Hydrodynamic Bearings Part I: Slider and Thrust Bearings. <i>ASLE Transactions</i> , <b>1987</b> , 30, 19-25		57
28	A Review of Thermal Effects in Hydrodynamic Bearings. Part II: Journal Bearings. <i>ASLE Transactions</i> , <b>1987</b> , 30, 26-33		74
27	Thermohydrodynamic Analysis of Laminar Incompressible Journal Bearings. <i>ASLE Transactions</i> , <b>1986</b> , 29, 141-150		81
26	Lubricants and Lubrication		23-61
25	Bearing Materials		89-112
24	Adaptive control of active tilting-pad bearings		5
23	Introduction to Thermodynamics of Mechanical Fatigue		18
22	On the kinetic formulation of fracture fatigue entropy of metals. <i>Fatigue and Fracture of Engineering Materials and Structures</i> ,	3	3

21 Appendix F Nomenclature 193-196

20 Tensile Properties of Additively Manufactured C-18150 Copper Alloys. *Metals and Materials International*, 1 2.4 3

19 Appendix B: Viscosity Conversions 555-556 1

18 Reynolds Equation and Applications 143-171 3

17 Thermodynamic Characterization of Grease Oxidation-Thermal Stability via Pressure Differential Scanning Calorimetry. *Tribology Transactions*, 1-21 1.8

16 Appendix A: Unit Conversion Factors 551-553

15 Tribology: Friction, Wear, and Lubrication 1-21

14 Hydrostatic Bearings 299-319

13 Gas Bearings 321-359

12 Dry and Starved Bearings 361-387

11 Selecting Bearing Type and Size 389-423

10 Principles and Operating Limits 425-457

9 Friction, Wear and Lubrication 459-485

8 Seal Fundamentals 487-529

7 Condition Monitoring and Failure Analysis 531-550

6 Surface Texture and Interactions 63-88

5 Fundamentals of Viscous Flow 113-142

4 Thrust Bearings 173-199



3 Journal Bearings201-261

2 Squeeze-Film Bearings263-298

1 Evaluation of fatigue in unidirectional and cross-ply laminated composites using a coupled entropy-kinetic concept. *Journal of Composite Materials*,002199832210968

2.7 0