Robert L Jackson

List of Publications by Year
in descending order

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163	4,355	136950	123424
papers	citations	32 h-index	61 g-index

164	164	164	2054
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Finite Element Study of Elasto-Plastic Hemispherical Contact Against a Rigid Flat. Journal of Tribology, 2005, 127, 343-354.	1.9	527
2	Meeting the Contact-Mechanics Challenge. Tribology Letters, 2017, 65, 1.	2.6	232
3	A statistical model of elasto-plastic asperity contact between rough surfaces. Tribology International, 2006, 39, 906-914.	5.9	229
4	A multi-scale model for contact between rough surfaces. Wear, 2006, 261, 1337-1347.	3.1	213
5	A Review of Elasticâ€“Plastic Contact Mechanics. Applied Mechanics Reviews, 2017, 69, .	10.1	168
6	Predicting the coefficient of restitution of impacting elastic-perfectly plastic spheres. Nonlinear Dynamics, 2010, 60, 217-229.	5.2	147
7	Experimental analysis of stable CuO nanoparticle enhanced lubricants. Journal of Experimental Nanoscience, 2015, 10, 1-18.	2.4	111
8	On the Modeling of Elastic Contact between Rough Surfaces. Tribology Transactions, 2011, 54, 300-314.	2.0	106
9	A Finite Element Study of the Residual Stress and Deformation in Hemispherical Contacts. Journal of Tribology, 2005, 127, 484-493.	1.9	93
10	The Effect of Nanoparticles on the Real Area of Contact, Friction, and Wear. Journal of Tribology, 2013, 135, .	1.9	90
11	Surface separation and contact resistance considering sinusoidal elasticâ€“plastic multi-scale rough surface contact. Wear, 2010, 268, 190-201.	3.1	89
12	A Comparison of Contact Modeling Utilizing Statistical and Fractal Approaches. Journal of Tribology, 2006, 128, 213-217.	1.9	82
13	Layered 2D Nanomaterials to Tailor Friction and Wear in Machine Elementsâ€”A Review. Advanced Materials Interfaces, 2022, 9, .	3.7	80
14	A comprehensive study of the elasto-plastic contact of a sphere and a flat. Tribology International, 2016, 93, 78-90.	5.9	79
15	An Analytical Solution to an Archard-Type Fractal Rough Surface Contact Model. Tribology Transactions, 2010, 53, 543-553.	2.0	77
16	An analysis of generated fractal and measured rough surfaces in regards to their multi-scale structure and fractal dimension. Tribology International, 2017, 105, 94-101.	5.9	72
17	A Comparison of Flattening and Indentation Approaches for Contact Mechanics Modeling of Single Asperity Contacts. Journal of Tribology, 2006, 128, 209-212.	1.9	70
18	An analysis of elasto-plastic sliding spherical asperity interaction. Wear, 2007, 262, 210-219.	3.1	66

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19	Tribological Performance of Silver Nanoparticleâ€“Enhanced Polyethylene Glycol Lubricants. Tribology Transactions, 2016, 59, 585-592.	2.0	65
20	Reliability and life study of hydraulic solenoid valve. Part 1: A multi-physics finite element model. Engineering Failure Analysis, 2009, 16, 874-887.	4.0	64
21	An analysis of three-dimensional elasto-plastic sinusoidal contact. Tribology Letters, 2007, 27, 31-43.	2.6	63
22	Reliability and life study of hydraulic solenoid valve. Part 2: Experimental study. Engineering Failure Analysis, 2009, 16, 944-963.	4.0	61
23	Study of the electrical contact resistance of multi-contact MEMS relays fabricated using the MetalMUMPs process. Journal of Micromechanics and Microengineering, 2006, 16, 1189-1194.	2.6	55
24	A Multiscale Model of Thermal Contact Resistance Between Rough Surfaces. Journal of Heat Transfer, 2008, 130, .	2.1	48
25	Statistical model of nearly complete elastic rough surface contact. International Journal of Solids and Structures, 2014, 51, 1075-1088.	2.7	47
26	A fractal expansion of a three dimensional elasticâ€“plastic multi-scale rough surface contact model. Tribology International, 2013, 59, 230-239.	5.9	45
27	Vibration-Induced Changes in the Contact Resistance of High Power Electrical Connectors for Hybrid Vehicles. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2012, 2, 185-193.	2.5	43
28	Predicting the Permanent Deformation After the Impact of a Rod With a Flat Surface. Journal of Tribology, 2015, 137, .	1.9	43
29	The effect of nanoparticles on thin film elasto-hydrodynamic lubrication. Applied Physics Letters, 2013, 103, .	3.3	42
30	Statistical models of nearly complete elastic rough surface contact-comparison with numerical solutions. Tribology International, 2017, 105, 274-291.	5.9	42
31	A Solution of Rigidâ€“Perfectly Plastic Deep Spherical Indentation Based on Slip-Line Theory. Tribology Letters, 2015, 58, 1.	2.6	36
32	The Effect of Scale-Dependent Hardness on Elasto-Plastic Asperity Contact between Rough Surfaces. Tribology Transactions, 2006, 49, 135-150.	2.0	35
33	Deterministic elastic-plastic modelling of rough surface contact including spectral interpolation and comparison to theoretical models. Tribology International, 2019, 135, 246-258.	5.9	30
34	A Multiphysics Finite Element Model of a 35A Automotive Connector Including Multiscale Rough Surface Contact. Journal of Electronic Packaging, Transactions of the ASME, 2012, 134, .	1.8	29
35	Predictions of the average surface separation and stiffness between contacting elastic and elasticâ€“plastic sinusoidal surfaces. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2013, 227, 1376-1385.	1.8	29
36	Rough surface electrical contact resistance considering scale dependent properties and quantum effects. Journal of Applied Physics, 2015, 117, .	2.5	28

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37	A Finite Element Study of an Elasto-Plastic Disk or Cylindrical Contact Against a Rigid Flat in Plane Stress with Bilinear Hardening. Tribology Letters, 2017, 65, 1.	2.6	28
38	A Closed-Form Multiscale Thermal Contact Resistance Model. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2012, 2, 1158-1171.	2.5	27
39	The Behavior of Thrust Washer Bearings Considering Mixed Lubrication and Asperity Contact. Tribology Transactions, 2006, 49, 233-247.	2.0	26
40	The Thermoelastic Behavior of Thrust Washer Bearings Considering Mixed Lubrication, Asperity Contact, and Thermoviscous Effects. Tribology Transactions, 2008, 51, 19-32.	2.0	26
41	The effect of resolution on the deterministic finite element elastic-plastic rough surface contact under combined normal and tangential loading. Tribology International, 2020, 144, 106141.	5.9	25
42	Theoretical and Finite Element Analysis of Static Friction Between Multi-Scale Rough Surfaces. Tribology Letters, 2018, 66, 1.	2.6	24
43	Electrical Contact Resistance Theory for Anisotropic Conductive Films Considering Electron Tunneling and Particle Flattening. IEEE Transactions on Components and Packaging Technologies, 2007, 30, 59-66.	1.3	23
44	A Multi-Physics Finite Element Model of an Electrical Connector Considering Rough Surface Contact. , 2008, , .		23
45	Tribological behavior of 17â€“4â€PH stainless steel fabricated by traditional manufacturing and laser-based additive manufacturing methods. Wear, 2019, 440-441, 203100.	3.1	23
46	A Finite Element Study of Elasto-Plastic Hemispherical Contact. , 2003, , 65.		22
47	Elasto-plastic impact of a rotating link with a massive surface. International Journal of Mechanical Sciences, 2011, 53, 309-315.	6.7	22
48	An Analysis of the Multiscale Structure of Surfaces with Various Finishes. Tribology Transactions, 2017, 60, 121-134.	2.0	21
49	Study of the Tribological Behavior of a Thrust Washer Bearing. Tribology Transactions, 2001, 44, 504-508.	2.0	20
50	Laterally actuated multicontact MEMS relay fabricated using MetalMUMPS process: experimental characterization and multiscale contact modeling. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2007, 6, 023009.	0.9	19
51	Measurements of the Static Friction Coefficient Between Tin Surfaces and Comparison to a Theoretical Model. Journal of Tribology, 2011, 133, .	1.9	18
52	Carbon nanotube (CNT) reinforced 316L stainless steel composites made by laser powder bed fusion: Microstructure and wear response. Wear, 2022, 496-497, 204281.	3.1	18
53	An investigation of the damping effects of various gas environments on a vibratory MEMS device. Tribology International, 2011, 44, 125-133.	5.9	17
54	A Surface Roughness Comparison of Cartilage in Different Types of Synovial Joints. Journal of Biomechanical Engineering, 2012, 134, 021006.	1.3	17

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55	Modeling and Analysis of Vibration-Induced Changes in Connector Resistance of High Power Electrical Connectors for Hybrid Vehicles. Mechanics Based Design of Structures and Machines, 2012, 40, 349-365.	4.7	17
56	A Simplified Model of Multiscale Electrical Contact Resistance and Comparison to Existing Closed Form Models. , 2009, , .		16
57	Elasticâ€“Plastic Sinusoidal Waviness Contact Under Combined Normal and Tangential Loading. Tribology Letters, 2017, 65, 1.	2.6	16
58	Strain Hardening From Elasticâ€“Perfectly Plastic to Perfectly Elastic Flattening Single Asperity Contact. Journal of Tribology, 2019, 141, .	1.9	16
59	A mixed lubrication analysis of a thrust bearing with fractal rough surfaces. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2020, 234, 608-621.	1.8	16
60	Periodic Contact Problems in Plane Elasticity: The Fracture Mechanics Approach. Journal of Tribology, 2018, 140, .	1.9	15
61	A Comprehensive Review of the Finite Element Modeling of Electrical Connectors Including Their Contacts. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2020, 10, 836-844.	2.5	15
62	Contact Mechanics. , 2013, , 93-140.		15
63	Self-Adapting Microscale Surface Grooves for Hydrodynamic Lubrication. Tribology Transactions, 2008, 52, 1-11.	2.0	14
64	Comparison of equine articular cartilage thickness in various joints. Connective Tissue Research, 2014, 55, 339-347.	2.3	14
65	Boundary element method (BEM) applied to the rough surface contact vs. BEM in computational mechanics. Friction, 2019, 7, 359-371.	6.4	14
66	An Investigation of Silver-Nanoparticle-Laden Lubricants for Electrical Contacts. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2019, 9, 193-200.	2.5	13
67	Experimental Investigation of Thermal and Hydrodynamic Effects on Radially Grooved Thrust Washer Bearings. Tribology Transactions, 2006, 49, 192-201.	2.0	12
68	Electrical Contact Resistance Considering Multi-Scale Roughness. , 2008, , .		12
69	Experimental and Analytical Investigation of a Dynamic Gas Squeeze Film Bearing Including Asperity Contact Effects. Tribology Transactions, 2008, 51, 57-67.	2.0	12
70	The Fractal Structure of Equine Articular Cartilage. Scanning, 2012, 34, 418-426.	1.5	12
71	Elastic Contact Between a Geometrically Anisotropic Bisinusoidal Surface and a Rigid Base. Journal of Tribology, 2015, 137, .	1.9	12
72	A New Method for the Measurement of Real Area of Contact by the Adhesive Transfer of Thin Au film. Tribology Letters, 2018, 66, 1.	2.6	12

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73	Asperity creep under constant force boundary conditions. Wear, 2010, 268, 1285-1294.	3.1	11
74	A Multi-Physics Finite Element Analysis of Round Pin High Power Connectors. , 2010, , .		11
75	The Influence of Thermal Expansion and Plastic Deformation on a Thermo-Electro Mechanical Spherical Asperity Contact. , 2012, , .		11
76	A third body contact model for particle contaminated electrical contacts. , 2014, , .		11
77	Modelling of Lubricated Electrical Contacts. Lubricants, 2022, 10, 32.	2.9	11
78	Experimental Analysis of the Wear, Life and Behavior of PTFE Coated Thrust Washer Bearings Under Non-Axisymmetric Loading. Tribology Transactions, 2003, 46, 600-607.	2.0	10
79	Self Adapting Mechanical Step Bearings for Variations in Load. Tribology Letters, 2005, 20, 11-20.	2.6	10
80	The Effect of Initial Connector Insertions on Electrical Contact Resistance. , 2007, , .		10
81	The average roughness and fractal dimension of articular cartilage during drying. Scanning, 2014, 36, 368-375.	1.5	10
82	Molecular scale analysis of dry sliding copper asperities. Applied Nanoscience (Switzerland), 2015, 5, 469-480.	3.1	10
83	Perfectly Elastic Axisymmetric Sinusoidal Surface Asperity Contact. Journal of Tribology, 2016, 138, .	1.9	10
84	A Solution of Rigid Perfectly Plastic Cylindrical Indentation in Plane Strain and Comparison to Elastic-Plastic Finite Element Predictions With Hardening. Journal of Applied Mechanics, Transactions ASME, 2018, 85, .	2.2	10
85	Evaluating Elastic-Plastic Wavy and Spherical Asperity-Based Statistical and Multi-Scale Rough Surface Contact Models with Deterministic Results. Materials, 2021, 14, 3864.	2.9	10
86	An electro-mechanical contact analysis of a three-dimensional sinusoidal surface against a rigid flat. Wear, 2011, 270, 914-921.	3.1	9
87	Biomimetic Model of Articular Cartilage Based on <i>In Vitro</i> Experiments. Journal of Biomimetics, Biomaterials and Biomedical Engineering, 0, 21, 75-91.	0.5	9
88	Elastic and elastic-perfectly plastic analysis of an axisymmetric sinusoidal surface asperity contact. Tribology - Materials, Surfaces and Interfaces, 2020, 14, 1-21.	1.4	9
89	Experimental and theoretical investigation of contact resistance and reliability of lateral contact type ohmic MEMS relays. , 2006, 6111, 142.		8
90	A model for the liquid-mediated collapse of 2-D rough surfaces. Wear, 2009, 267, 1436-1445.	3.1	8

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91	A Multi-Physics Finite Element Model of a 35A Automotive Connector Including Multiscale Rough Surface Contact. , 2010, , .		7
92	The Influence of Particulate Contaminants on Vibration-Induced Fretting Degradation in Electrical Connectors. , 2010, , .		7
93	Growth of Sn Whiskers under Net Compressive and Tensile Stress States. , 2011, , .		7
94	Biomechanical Testing of a Novel Tendon Implant Device for the Repair of Equine Flexor Tendon Lacerations. Veterinary Surgery, 2014, 43, 685-690.	1.0	7
95	Correlation between signalment and the biphasic hyperelastic mechanical properties of equine articular cartilage. Biotribology, 2016, 7, 31-37.	1.9	7
96	Some Closed-Form Results for Adhesive Rough Contacts Near Complete Contact on Loading and Unloading in the Johnson, Kendall, and Roberts Regime. Journal of Tribology, 2018, 140, .	1.9	7
97	The generalized Tabor parameter for adhesive rough contacts near complete contact. Journal of the Mechanics and Physics of Solids, 2019, 122, 126-140.	4.8	7
98	A Comparison of Friction Measurements of Intact Articular Cartilage in Contact with Cartilage, Glass, and Metal. Journal of Biomimetics, Biomaterials and Biomedical Engineering, 0, 41, 23-35.	0.5	7
99	Elastic Rough Surface Contact and the Root Mean Square Slope of Measured Surfaces over Multiple Scales. Fractal and Fractional, 2021, 5, 44.	3.3	7
100	Evaluation of fractal terrain model for vehicle dynamic simulations. Journal of Terramechanics, 2012, 49, 299-307.	3.1	6
101	A Comparison of the Predictions of a Finite Element Model and Multiscale Model for a Rough MEMS Electrical Contact. , 2013, , .		6
102	A multi-variable parametric study on the performance of bolted busbar contacts. , 2015, , .		6
103	An Analysis of Scale Dependent and Quantum Effects on Electrical Contact Resistance between Rough Surfaces. , 2012, , .		5
104	Three-dimensional modeling of elasto-plastic sinusoidal contact under time dependent deformation due to stress relaxation. Tribology International, 2014, 73, 25-35.	5.9	5
105	A comparison of nanoscale measurements with the theoretical models of real and nominal contact areas. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2020, 234, 1735-1745.	1.8	5
106	A mixed lubrication analysis of a flatâ€ℓand thrust bearing with a surface optimisation method. Lubrication Science, 2021, 33, 335-346.	2.1	5
107	Discussion: â€œExperimental Investigation of Fully Plastic Contact of a Sphere Against a Hard Flatâ€• (Jamari, J., and Schipper, D. J., 2006, ASME J. Tribol., 128, pp. 230â€“235). Journal of Tribology, 2007, 129, 700-700.	1.9	4
108	Experimental Study of the Vibration-Induced Fretting of Silver-Plated High Power Automotive Connectors. , 2010, , .		4

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109	Correlation of Intrinsic Thin Film Stress Evolution and IMC Growth with Whisker Growth. , 2011, , .		4
110	A comparison of the predictions of a multiscale model and optical real area of contact measurements. , 2014, , .		4
111	Equine Articular Cartilage Stiffness Determination Using Indentation. Journal of Tribology, 2015, 137, .	1.9	4
112	Elastic Sinusoidal Wavy Surface Contact Under Full Stick Conditions. Tribology Letters, 2017, 65, 1.	2.6	4
113	An investigation of the elastic cylindrical line contact equations for plane strain and stress considering friction. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2022, 236, 1889-1897.	1.8	4
114	Friction and wear properties of biomass-derived oils via thermochemical conversion processes. Biomass and Bioenergy, 2021, 155, 106269.	5.7	4
115	An Investigation of the Electrical Contact Resistance Change, Lubrication, and Wear Properties of a Nanolubricant. , 2020, , .		4
116	Electro-thermo-mechanical Contact Analysis Considering Temperature Dependent Material Properties and Electrical Contact Resistance Determination. , 2021, , .		4
117	Predicting the Coefficient of Restitution of Impacting Elastic-Perfectly Plastic Spheres. , 2006, , 1449.		3
118	Influence of Quantifiable Extrinsic Stresses on Tin Whisker Growth. , 2009, , .		3
119	Stress Relaxation of Articular Cartilage in Unconfined Compression. , 2012, , .		3
120	Fractal terrain generation for vehicle simulation. International Journal of Vehicle Autonomous Systems, 2012, 10, 3.	0.2	3
121	A Multiphysics Coupled Electro-thermo-mechanical Model of Whisker Shorting. , 2018, , .		3
122	A Comparison of Elastic Contact Modeling Utilizing Statistical and Fractal Approaches. , 2005, , .		3
123	An experimental investigation of various materials on thrust washer bearing operation. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2007, 221, 761-770.	1.8	2
124	A Study of the Average Real Contact Pressure Between Rough Surfaces. , 2008, , .		2
125	A Scale Dependent Simulation of Liquid Lubricated Textured Surfaces. Journal of Tribology, 2010, 132, .	1.9	2
126	Nanoindentation modeling of a nanodot-patterned surface on a deformable substrate. International Journal of Solids and Structures, 2010, 47, 3203-3213.	2.7	2

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127	Hydrodynamically Lubricated and Grooved Biomimetic Self-Adapting Surfaces. Journal of Functional Biomaterials, 2014, 5, 78-98.	4.4	2
128	Elastic-plastic axisymmetric sinusoidal surface asperity contact. , 2016, , .		2
129	An analysis of generated fractal and measured rough surfaces. , 2016, , .		2
130	Effect of Electrical Contact Degradation on Analog Signal Transmission. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2019, 9, 2374-2382.	2.5	2
131	Multiscale Terrain Characterization Using Fourier and Wavelet Transforms for Unmanned Ground Vehicles. , 2009, , .		2
132	Comparison Between the Hyperelastic Behavior of Fresh and Frozen Equine Articular Cartilage in Various Joints. Journal of Biomechanical Engineering, 2020, 142, .	1.3	2
133	A Multi-Scale Model for Contact Between Rough Surfaces. , 2005, , 313.		1
134	Elasto-Plastic Hemispherical Contact Models for Various Mechanical Properties. , 2005, , 227.		1
135	An Analysis of Elasto-Plastic Sliding Spherical Asperity Interaction. , 2006, , 1517.		1
136	A Semi-Analytical Model of Contact Resistance from Sinusoidal Asperity or Wavy Surface Contact. , 2009, , .		1
137	Comment on Åperka, P., I. KÅ™upka, M. Hartl (2014). â€œEvidence of Plug Flow in Rollingâ€“Sliding Elastohydrodynamic Contact.â€•Tribology Letters 54(2): 151â€“160. Tribology Letters, 2014, 56, 407-407.	2.6	1
138	Fundamentals and previous experiments of the squeeze film levitation mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6906-E6906.	7.1	1
139	An exploratory study of silver nanoparticle laden lubricants for electrical contacts. , 2017, , .		1
140	Nanoscale Measurements of the Real Area of Contact and Comparison to Theoretical Models. , 2019, , .		1
141	Multiscale Contact Resistance Modeling of Ohmic MEMS Relays. , 2006, , .		1
142	Flow factor modeling of combustion engine ring and cylinder components in mixed hydrodynamic lubrication. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2023, 237, 210-221.	1.8	1
143	The Thermoelastic Behavior of Thrust Washer Bearings Considering Boundary Lubrication and Asperity Contact. , 2005, , 39.		0
144	An Analysis of Three-Dimensional Elasto-Plastic Sinusoidal Contact. , 2007, , 509.		0

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145	A Study of Plastic Deformation of Heavily Loaded Spherical Surfaces. , 2008, , .		0
146	Nanoindentation on a Ni Nanodot-Patterned Surface. , 2008, , .		0
147	A Study of Real Area of Contact for Tire/Road Interface. , 2009, , .		0
148	Nanoindentation of a Deformable Substrate Covered by Patterned Nanodot Asperities. , 2009, , .		0
149	An FFT Deterministic Simulation of Elastic Rough Surfaces in Three-Dimensional Contact and Model Analysis. , 2009, , .		0
150	A model for the adhesion of multiscale rough surfaces in MEMS. , 2011, , .		0
151	The Effect of Convection on Electro-thermal Modeling of Whisker Shorting. , 2019, , .		0
152	Self Adapting Mechanical Step Bearings for Variations in Load. , 2005, , .		0
153	Predicting Electrical Contact Resistance Theory for Anisotropic Conductive Films Considering Electron Tunneling and Particle Flattening. , 2006, , .		0
154	Critical Conditions for Liquid Mediated Collapse of Two-Dimensional Rough Surfaces. , 2007, , .		0
155	Surface Separation and Contact Resistance Considering Elasto-Plastic Multi-Scale Rough Surface Contact. , 2007, , .		0
156	Multiscale Prediction of the Surface Separation Between Rough Surfaces. , 2008, , .		0
157	A Molecular Model of Asperity Contact and Comparison to Continuum Based Models. , 2008, , .		0
158	Analytical Results for the Resolution-Dependent Progression of Contact Area in a Multi-Scale Contact Model. , 2009, , .		0
159	Impact of a Compound Pendulum With a Surface Using a Nonlinear Contact Force. , 2009, , .		0
160	Effects of Lattice Orientation and Size on Molecular Asperity Contact Models. , 2009, , .		0
161	An Investigation of the Damping Effects of Various Gas Environments on a Vibratory MEMS Device. , 2009, , .		0
162	Stochastic Contact Theories: Other Theories Based on the Greenwood-Williamson Model. , 2013, , 3299-3306.		0

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163	Development and Validation of the Statistical Elastic and Elastic-plastic Rough Surface Contact Model for Small Contact to Complete Contact. , 2021, , .		0