

Daniele Dini

List of Publications by Year in descending order

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329
papers

7,530
citations

66343

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68
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all docs

337
docs citations

337
times ranked

5538
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling and simulation in tribology across scales: An overview. <i>Tribology International</i> , 2018, 125, 169-199.	5.9	335
2	Meeting the Contact-Mechanics Challenge. <i>Tribology Letters</i> , 2017, 65, 1.	2.6	232
3	Recent developments in the understanding of fretting fatigue. <i>Engineering Fracture Mechanics</i> , 2006, 73, 207-222.	4.3	206
4	Comparative assessment of dissipated energy and other fatigue criteria. <i>International Journal of Fatigue</i> , 2007, 29, 1990-1995.	5.7	141
5	Significant and stable drag reduction with air rings confined by alternated superhydrophobic and hydrophilic strips. <i>Science Advances</i> , 2017, 3, e1603288.	10.3	127
6	Combinatorial scaffold morphologies for zonal articular cartilage engineering. <i>Acta Biomaterialia</i> , 2014, 10, 2065-2075.	8.3	120
7	Advances in nonequilibrium molecular dynamics simulations of lubricants and additives. <i>Friction</i> , 2018, 6, 349-386.	6.4	118
8	High Lubricity Meets Load Capacity: Cartilage Mimicking Bilayer Structure by Brushing Up Stiff Hydrogels from Subsurface. <i>Advanced Functional Materials</i> , 2020, 30, 2004062.	14.9	118
9	Influence of surface texturing on hydrodynamic friction in plane converging bearings - An experimental and numerical approach. <i>Tribology International</i> , 2019, 134, 190-204.	5.9	111
10	Nonequilibrium Molecular Dynamics Simulations of Organic Friction Modifiers Adsorbed on Iron Oxide Surfaces. <i>Langmuir</i> , 2016, 32, 4450-4463.	3.5	105
11	A Mass-Conserving Complementarity Formulation to Study Lubricant Films in the Presence of Cavitation. <i>Journal of Tribology</i> , 2010, 132, .	1.9	101
12	Cryogenic 3D Printing of Super Soft Hydrogels. <i>Scientific Reports</i> , 2017, 7, 16293.	3.3	98
13	A Comparison of Classical Force-Fields for Molecular Dynamics Simulations of Lubricants. <i>Materials</i> , 2016, 9, 651.	2.9	96
14	On the characterization of the heterogeneous mechanical response of human brain tissue. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 907-920.	2.8	92
15	Transient experimental and modelling studies of laser-textured micro-grooved surfaces with a focus on piston-ring cylinder liner contacts. <i>Tribology International</i> , 2017, 113, 125-136.	5.9	90
16	Nanoporous Substrate-Infused Hydrogels: a Bioinspired Regenerable Surface for High Load Bearing and Tunable Friction. <i>Advanced Functional Materials</i> , 2015, 25, 7366-7374.	14.9	87
17	A composite hydrogel for brain tissue phantoms. <i>Materials and Design</i> , 2016, 112, 227-238.	7.0	87
18	Rapid, automated imaging of mouse articular cartilage by microCT for early detection of osteoarthritis and finite element modelling of joint mechanics. <i>Osteoarthritis and Cartilage</i> , 2014, 22, 1419-1428.	1.3	82

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19	Detailed finite element modelling of deep needle insertions into a soft tissue phantom using a cohesive approach. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013, 16, 530-543.	1.6	81
20	Analytical and Numerical Models for Tangential Stiffness of Rough Elastic Contacts. <i>Tribology Letters</i> , 2013, 49, 103-115.	2.6	75
21	Modelling and experimental characterisation of the rate dependent fracture properties of gelatine gels. <i>Food Hydrocolloids</i> , 2015, 46, 180-190.	10.7	71
22	Fluid film lubrication in the presence of cavitation: a mass-conserving two-dimensional formulation for compressible, piezoviscous and non-Newtonian fluids. <i>Tribology International</i> , 2013, 67, 61-71.	5.9	70
23	A numerical model for the deterministic analysis of adhesive rough contacts down to the nano-scale. <i>International Journal of Solids and Structures</i> , 2014, 51, 2620-2632.	2.7	67
24	The mechanisms governing the activation of dislocation sources in aluminum at different strain rates. <i>Journal of the Mechanics and Physics of Solids</i> , 2015, 84, 273-292.	4.8	65
25	Tribological properties of PVA/PVP blend hydrogels against articular cartilage. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 78, 36-45.	3.1	65
26	The effect of temperature on the elastic precursor decay in shock loaded FCC aluminium and BCC iron. <i>International Journal of Plasticity</i> , 2017, 96, 135-155.	8.8	65
27	Attenuation of the Dynamic Yield Point of Shocked Aluminum Using Elastodynamic Simulations of Dislocation Dynamics. <i>Physical Review Letters</i> , 2015, 114, 174301.	7.8	62
28	Lubrication in soft rough contacts: A novel homogenized approach. Part I - Theory. <i>Soft Matter</i> , 2011, 7, 10395.	2.7	61
29	Mechanics of rough contacts in elastic and viscoelastic thin layers. <i>International Journal of Solids and Structures</i> , 2015, 69-70, 507-517.	2.7	58
30	Soft Tissue Phantoms for Realistic Needle Insertion: A Comparative Study. <i>Annals of Biomedical Engineering</i> , 2016, 44, 2442-2452.	2.5	58
31	Experimental and numerical investigation of the behaviour of articular cartilage under shear loading – Interstitial fluid pressurisation and lubrication mechanisms. <i>Tribology International</i> , 2011, 44, 565-578.	5.9	57
32	Nonequilibrium molecular dynamics simulations of stearic acid adsorbed on iron surfaces with nanoscale roughness. <i>Tribology International</i> , 2017, 107, 264-273.	5.9	57
33	A coupled finite-volume CFD solver for two-dimensional elasto-hydrodynamic lubrication problems with particular application to rolling element bearings. <i>Tribology International</i> , 2017, 109, 258-273.	5.9	53
34	Effects of Fiber Orientation on the Frictional Properties and Damage of Regenerative Articular Cartilage Surfaces. <i>Tissue Engineering - Part A</i> , 2013, 19, 2300-2310.	3.1	52
35	Stress gradient effects in fretting fatigue. <i>Tribology International</i> , 2003, 36, 71-78.	5.9	51
36	On the effect of confined fluid molecular structure on nonequilibrium phase behaviour and friction. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 17883-17894.	2.8	51

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37	Crack tip deformation fields and fatigue crack growth rates in TiAl ₄ . International Journal of Fatigue, 2009, 31, 1771-1779.	5.7	50
38	Soft Matter Lubrication: Does Solid Viscoelasticity Matter?. ACS Applied Materials & Interfaces, 2017, 9, 42287-42295.	8.0	50
39	A dynamic discrete dislocation plasticity method for the simulation of plastic relaxation under shock loading. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2013, 469, 20130141.	2.1	48
40	Evaluation and analysis of residual stresses due to foreign object damage. Mechanics of Materials, 2007, 39, 199-211.	3.2	46
41	Nonequilibrium Molecular Dynamics Investigation of the Reduction in Friction and Wear by Carbon Nanoparticles Between Iron Surfaces. Tribology Letters, 2016, 63, 1.	2.6	46
42	Dynamic response of liquid-filled catheter systems for measurement of blood pressure: precision of measurements and reliability of the Pressure Recording Analytical Method with different disposable systems. Journal of Critical Care, 2011, 26, 415-422.	2.2	45
43	Composite hydrogel: A high fidelity soft tissue mimic for surgery. Materials and Design, 2018, 160, 886-894.	7.0	45
44	The use of notch and short crack approaches to fretting fatigue threshold prediction: Theory and experimental validation. Tribology International, 2006, 39, 1158-1165.	5.9	44
45	Bounded asymptotic solutions for incomplete contacts in partial slip. International Journal of Solids and Structures, 2004, 41, 7049-7062.	2.7	43
46	Characteristics of the process zone at sharp notch roots. International Journal of Solids and Structures, 2011, 48, 2177-2183.	2.7	43
47	Comprehensive bounded asymptotic solutions for incomplete contacts in partial slip. Journal of the Mechanics and Physics of Solids, 2005, 53, 437-454.	4.8	41
48	Series Active Variable Geometry Suspension for Road Vehicles. IEEE/ASME Transactions on Mechatronics, 2015, 20, 361-372.	5.8	41
49	Two classes of short IFT trains with different 3D structure are present in <i>Chlamydomonas</i> flagella. Journal of Cell Science, 2016, 129, 2064-74.	2.0	41
50	Experimental Evidence of Micro-EHL Lubrication in Rough Soft Contacts. Tribology Letters, 2011, 43, 169-174.	2.6	40
51	Pressure dependence of confined liquid behavior subjected to boundary-driven shear. Journal of Chemical Physics, 2012, 136, 134705.	3.0	40
52	Asymptotic characterisation of nearly-sharp notch root stress fields. International Journal of Fracture, 2004, 130, 651-666.	2.2	39
53	The principle of strain reconstruction tomography: Determination of quench strain distribution from diffraction measurements. Acta Materialia, 2006, 54, 2101-2108.	7.9	39
54	Adsorption of Surfactants on Fe ₂ O ₃ (0001): A Density Functional Theory Study. Journal of Physical Chemistry C, 2018, 122, 20817-20826.	3.1	39

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55	Experimental Investigation of Viscoelastic Rolling Contacts: A Comparison with Theory. Tribology Letters, 2013, 51, 105-113.	2.6	38
56	The equivalence between volume averaging and method of planes definitions of the pressure tensor at a plane. Journal of Chemical Physics, 2011, 135, 024512.	3.0	37
57	Correlation of fretting fatigue experimental results using an asymptotic approach. International Journal of Fatigue, 2012, 43, 62-75.	5.7	37
58	Traction and nonequilibrium phase behavior of confined sheared liquids at high pressure. Physical Review E, 2013, 88, 052406.	2.1	37
59	Slip of Alkanes Confined between Surfactant Monolayers Adsorbed on Solid Surfaces. Langmuir, 2018, 34, 3864-3873.	3.5	37
60	Frictional Energy Dissipation in a Rough Hertzian Contact. Journal of Tribology, 2009, 131, .	1.9	36
61	The influence of surface roughness and adhesion on particle rolling. Powder Technology, 2017, 312, 321-333.	4.2	36
62	Do uniform tangential interfacial stresses enhance adhesion?. Journal of the Mechanics and Physics of Solids, 2018, 112, 145-156.	4.8	36
63	An accurate force-displacement law for the modelling of elastic-plastic contacts in discrete element simulations. Powder Technology, 2015, 282, 2-9.	4.2	35
64	A General Finite Volume Method for the Solution of the Reynolds Lubrication Equation with a Mass-Conserving Cavitation Model. Tribology Letters, 2015, 60, 1.	2.6	35
65	A phase field model of pressure-assisted sintering. Journal of the European Ceramic Society, 2019, 39, 173-182.	5.7	35
66	Liquid repellency enhancement through flexible microstructures. Science Advances, 2020, 6, eaba9721.	10.3	35
67	The mechanics and physics of high-speed dislocations: a critical review. International Materials Reviews, 2021, 66, 215-255.	19.3	35
68	Feasibility study of neutron strain tomography. Procedia Engineering, 2009, 1, 185-188.	1.2	34
69	Instabilities of High Speed Dislocations. Physical Review Letters, 2018, 121, 145502.	7.8	33
70	Finite element modelling and diffraction measurement of elastic strains during tensile deformation of HCP polycrystals. Computational Materials Science, 2008, 44, 131-137.	3.0	32
71	Unraveling and Mapping the Mechanisms for Near-Surface Microstructure Evolution in CuNi Alloys under Sliding. ACS Applied Materials & Interfaces, 2020, 12, 32197-32208.	8.0	32
72	Fast laser surface texturing of spherical samples to improve the frictional performance of elasto-hydrodynamic lubricated contacts. Friction, 2021, 9, 1227-1241.	6.4	31

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73	Control-volume representation of molecular dynamics. <i>Physical Review E</i> , 2012, 85, 056705.	2.1	30
74	Pore shapes, volume distribution and orientations in monodisperse granular assemblies. <i>Granular Matter</i> , 2015, 17, 727-742.	2.2	30
75	Theory of reciprocating contact for viscoelastic solids. <i>Physical Review E</i> , 2016, 93, 043003.	2.1	30
76	Lubrication in soft rough contacts: A novel homogenized approach. Part II - Discussion. <i>Soft Matter</i> , 2011, 7, 10407.	2.7	29
77	Tribology-optimised silk protein hydrogels for articular cartilage repair. <i>Tribology International</i> , 2015, 89, 9-18.	5.9	29
78	Stress analysis of V-notches with and without cracks, with application to foreign object damage. <i>Journal of Strain Analysis for Engineering Design</i> , 2003, 38, 429-441.	1.8	28
79	Tribological evaluation of biomedical polycarbonate urethanes against articular cartilage. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 82, 394-402.	3.1	28
80	Simulating Surfactant- Fe -Iron Oxide Interfaces: From Density Functional Theory to Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2019, 123, 6870-6881.	2.6	28
81	Transport coefficients of the Lennard-Jones fluid close to the freezing line. <i>Journal of Chemical Physics</i> , 2019, 151, 204502.	3.0	28
82	Influence of Fabric on Stress Distribution in Gap-Graded Soil. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021, 147, .	3.0	28
83	An adaptive finite element model for steerable needles. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 1809-1825.	2.8	27
84	Contributions of Molecular Dynamics Simulations to Elastohydrodynamic Lubrication. <i>Tribology Letters</i> , 2021, 69, 1.	2.6	27
85	Prediction of the slip zone friction coefficient in flat and rounded contact. <i>Wear</i> , 2003, 254, 364-369.	3.1	26
86	Scaling of Lennard-Jones liquid elastic moduli, viscoelasticity and other properties along fluid-solid coexistence. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 1514-1525.	1.5	26
87	Effect of tissue permeability and drug diffusion anisotropy on convection-enhanced delivery. <i>Drug Delivery</i> , 2019, 26, 773-781.	5.7	26
88	Ability of a pore network model to predict fluid flow and drag in saturated granular materials. <i>Computers and Geotechnics</i> , 2019, 110, 344-366.	4.7	26
89	Effect of Particle Size and Surface Charge on Nanoparticles Diffusion in the Brain White Matter. <i>Pharmaceutical Research</i> , 2022, 39, 767-781.	3.5	26
90	Models and tissue mimics for brain shift simulations. <i>Biomechanics and Modeling in Mechanobiology</i> , 2018, 17, 249-261.	2.8	25

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91	Shear heating, flow, and friction of confined molecular fluids at high pressure. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 5813-5823.	2.8	25
92	Quarter-Car Experimental Study for Series Active Variable Geometry Suspension. <i>IEEE Transactions on Control Systems Technology</i> , 2019, 27, 743-759.	5.2	25
93	Substituent Effects on the Thermal Decomposition of Phosphate Esters on Ferrous Surfaces. <i>Journal of Physical Chemistry C</i> , 2020, 124, 9852-9865.	3.1	24
94	Contact of a rotating wheel with a flat. <i>International Journal of Solids and Structures</i> , 2007, 44, 3304-3316.	2.7	23
95	Non-equilibrium phase behavior and friction of confined molecular films under shear: A non-equilibrium molecular dynamics study. <i>Journal of Chemical Physics</i> , 2016, 145, 164704.	3.0	23
96	A new hardness formula incorporating the effect of source density on indentation response: A discrete dislocation plasticity analysis. <i>Surface and Coatings Technology</i> , 2019, 374, 763-773.	4.8	23
97	Exploring the effect of geometric coupling on friction and energy dissipation in rough contacts of elastic and viscoelastic coatings. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 148, 104273.	4.8	23
98	Probing intra-granular deformation by micro-beam Laue diffraction. <i>Procedia Engineering</i> , 2009, 1, 193-196.	1.2	22
99	The significance of rate dependency in blade insertions into a gelatin soft tissue phantom. <i>Tribology International</i> , 2013, 63, 226-234.	5.9	22
100	A numerical study exploring the effect of particle properties on the fluidization of adhesive particles. <i>AIChE Journal</i> , 2016, 62, 1467-1477.	3.6	22
101	Nanohydrogel Brushes for Switchable Underwater Adhesion. <i>Journal of Physical Chemistry C</i> , 2017, 121, 8452-8463.	3.1	22
102	The finite and semi-infinite tilted, flat but rounded punch. <i>International Journal of Solids and Structures</i> , 2005, 42, 4988-5009.	2.7	21
103	A new method for the quantification of nucleation of fretting fatigue cracks using asymptotic contact solutions. <i>Tribology International</i> , 2006, 39, 1114-1122.	5.9	21
104	A coupled approach for rolling contact fatigue cracks in the hydrodynamic lubrication regime: The importance of fluid/solid interactions. <i>Wear</i> , 2011, 271, 720-733.	3.1	21
105	Boundary-controlled barostats for slab geometries in molecular dynamics simulations. <i>Physical Review E</i> , 2014, 90, 043302.	2.1	21
106	Determination of the shakedown limit for large, discrete frictional systems. <i>European Journal of Mechanics, A/Solids</i> , 2015, 49, 242-250.	3.7	21
107	Bioinspired 3D Printed Locomotion Devices Based on Anisotropic Friction. <i>Small</i> , 2019, 15, e1802931.	10.0	21
108	A computational fluid dynamics approach to determine white matter permeability. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 1111-1122.	2.8	21

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109	Mechanochemistry of phosphate esters confined between sliding iron surfaces. <i>Communications Chemistry</i> , 2021, 4, .	4.5	21
110	The tilted shallow wedge problem. <i>European Journal of Mechanics, A/Solids</i> , 2005, 24, 919-928.	3.7	20
111	Inverse eigenstrain analysis of residual stresses in friction stir welds. <i>Procedia Engineering</i> , 2009, 1, 213-216.	1.2	20
112	The influence of temperature on viscoelastic friction properties. <i>Tribology International</i> , 2016, 100, 338-343.	5.9	20
113	3D Measurements of Lubricant and Surface Temperatures Within an Elastohydrodynamic Contact. <i>Tribology Letters</i> , 2018, 66, 7.	2.6	20
114	Shear stress relaxation and diffusion in simple liquids by molecular dynamics simulations: Analytic expressions and paths to viscosity. <i>Journal of Chemical Physics</i> , 2019, 150, 174504.	3.0	20
115	Computing drag and interactions between fluid and polydisperse particles in saturated granular materials. <i>Computers and Geotechnics</i> , 2020, 117, 103210.	4.7	20
116	On the origin of microstructural discontinuities in sliding contacts: A discrete dislocation plasticity analysis. <i>International Journal of Plasticity</i> , 2021, 138, 102942.	8.8	20
117	The contact problem for a wheel having a $\hat{\epsilon}$ -flat TM . <i>Wear</i> , 2006, 261, 1265-1270.	3.1	19
118	Transient effects in lubricated textured bearings. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2015, 229, 523-537.	1.8	19
119	Partial slip incomplete contacts under constant normal load and subject to periodic loading. <i>International Journal of Mechanical Sciences</i> , 2016, 108-109, 115-121.	6.7	19
120	Series Active Variable Geometry Suspension application to comfort enhancement. <i>Control Engineering Practice</i> , 2017, 59, 111-126.	5.5	19
121	A computational geometry approach to pore network construction for granular packings. <i>Computers and Geosciences</i> , 2018, 112, 133-143.	4.2	19
122	Infusion Mechanisms in Brain White Matter and Their Dependence on Microstructure: An Experimental Study of Hydraulic Permeability. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 1229-1237.	4.2	19
123	The effect of fluid viscoelasticity in lubricated contacts in the presence of cavitation. <i>Tribology International</i> , 2021, 160, 107011.	5.9	19
124	The application of asymptotic solutions to contact problems characterised by logarithmic singularities. <i>European Journal of Mechanics, A/Solids</i> , 2008, 27, 847-858.	3.7	18
125	Role of Deprotonation Free Energies in pK_a Prediction and Molecule Ranking. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 2537-2545.	5.3	18
126	Polyelectrolyte pK_a from experiment and molecular dynamics simulation. <i>RSC Advances</i> , 2017, 7, 20007-20014.	3.6	18

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127	Partitioned fluid-structure interaction techniques applied to the mixed-elastohydrodynamic solution of dynamically loaded connecting-rod big-end bearings. <i>Tribology International</i> , 2019, 140, 105767.	5.9	18
128	Normal Load and Counter Body Size Influence the Initiation of Microstructural Discontinuities in Copper during Sliding. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4750-4760.	8.0	18
129	A novel CFD-DEM coarse-graining method based on the Voronoi tessellation. <i>Powder Technology</i> , 2021, 384, 479-493.	4.2	18
130	Effect of Temperature on the Deformation Behavior of Copper Nickel Alloys under Sliding. <i>Materials</i> , 2021, 14, 60.	2.9	18
131	A method based on asymptotics for the refined solution of almost complete partial slip contact problems. <i>European Journal of Mechanics, A/Solids</i> , 2003, 22, 851-859.	3.7	17
132	Flat and rounded fretting contact problems incorporating elastic layers. <i>International Journal of Mechanical Sciences</i> , 2004, 46, 1635-1657.	6.7	17
133	An axi-symmetric Hertzian Contact subject to cyclic shear and severe wear. <i>Wear</i> , 2008, 265, 1918-1922.	3.1	17
134	Sharp edged contacts subject to fretting: A description of corner behaviour. <i>International Journal of Fatigue</i> , 2015, 71, 26-34.	5.7	17
135	Parallel Active Link Suspension: A Quarter-Car Experimental Study. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018, 23, 2066-2077.	5.8	17
136	Evolving pore orientation, shape and size in sheared granular assemblies. <i>Granular Matter</i> , 2019, 21, 1.	2.2	17
137	Detection of proteoglycan loss from articular cartilage using Brillouin microscopy, with applications to osteoarthritis. <i>Biomedical Optics Express</i> , 2019, 10, 2457.	2.9	17
138	Fretting fatigue and wear in bolted connections: A multi-level formulation for the computation of local contact stresses. <i>Tribology International</i> , 2009, 42, 1663-1675.	5.9	16
139	Finite element analysis of the meniscectomised tibio-femoral joint: implementation of advanced articular cartilage models. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014, 17, 1553-1571.	1.6	16
140	A theoretical and experimental study of viscoelastic rolling contacts incorporating thermal effects. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2014, 228, 1112-1121.	1.8	16
141	The Role of Homogeneous Nucleation in Planar Dynamic Discrete Dislocation Plasticity. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2015, 82, .	2.2	16
142	Elastodynamic image forces on dislocations. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150433.	2.1	16
143	Molecular droplets vs bubbles: Effect of curvature on surface tension and Tolman length. <i>Physics of Fluids</i> , 2021, 33, .	4.0	15
144	When does a notch behave like a crack?. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2006, 220, 27-43.	2.1	14

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145	Measurement of Residual Elastic Strains in a Titanium Alloy Using High Energy Synchrotron X-Ray Diffraction. <i>Experimental Mechanics</i> , 2006, 46, 519-529.	2.0	14
146	Crystal plasticity and hardening: A dislocation dynamics study. <i>Procedia Engineering</i> , 2009, 1, 241-244.	1.2	14
147	The method of planes pressure tensor for a spherical subvolume. <i>Journal of Chemical Physics</i> , 2014, 140, 054506.	3.0	14
148	Biomimetic Water-Repelling Surfaces with Robustly Flexible Structures. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 31310-31319.	8.0	14
149	Insights into Infusion-Based Targeted Drug Delivery in the Brain: Perspectives, Challenges and Opportunities. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3139.	4.1	14
150	What level of friction guarantees adhesion in a complete contact?. <i>Journal of Strain Analysis for Engineering Design</i> , 2004, 39, 549-551.	1.8	13
151	The Influence of Surface Topography on Energy Dissipation and Compliance in Tangentially Loaded Elastic Contacts. <i>Journal of Tribology</i> , 2012, 134, .	1.9	13
152	An overview of the quantification of fretting fatigue lives of complete contacts. <i>Engineering Fracture Mechanics</i> , 2012, 80, 3-12.	4.3	13
153	Friction Induced Vibration in Windscreen Wiper Contacts. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2015, 137, .	1.6	13
154	Hypoid gear vehicle axle efficiency. <i>Tribology International</i> , 2016, 101, 314-323.	5.9	13
155	A Dynamic Discrete Dislocation Plasticity study of elastodynamic shielding of stationary cracks. <i>Journal of the Mechanics and Physics of Solids</i> , 2017, 98, 1-11.	4.8	13
156	The Percolation of Liquid Through a Compliant Seal—An Experimental and Theoretical Study. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2019, 141, .	1.5	13
157	Tuning the periodic V-peeling behavior of elastic tapes applied to thin compliant substrates. <i>International Journal of Mechanical Sciences</i> , 2020, 170, 105331.	6.7	13
158	Modelling the effects of age-related morphological and mechanical skin changes on the stimulation of tactile mechanoreceptors. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 112, 104073.	3.1	13
159	Fluid–solid interaction in the rate-dependent failure of brain tissue and biomimicking gels. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 119, 104530.	3.1	13
160	On the microstructural origin of brain white matter hydraulic permeability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	13
161	Droplet manipulation of hierarchical steel surfaces using femtosecond laser fabrication. <i>Applied Surface Science</i> , 2020, 521, 146474.	6.1	13
162	A review of the use of the asymptotic framework for quantification of fretting fatigue. <i>Journal of Strain Analysis for Engineering Design</i> , 2016, 51, 240-246.	1.8	12

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163	A method of coupling discrete dislocation plasticity to the crystal plasticity finite element method. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2016, 24, 045007.	2.0	12
164	Towards the Irving-Kirkwood limit of the mechanical stress tensor. <i>Journal of Chemical Physics</i> , 2017, 146, 224109.	3.0	12
165	Discrete crack dynamics: A planar model of crack propagation and crack-inclusion interactions in brittle materials. <i>International Journal of Solids and Structures</i> , 2018, 152-153, 12-27.	2.7	12
166	Capillary waves with surface viscosity. <i>Journal of Fluid Mechanics</i> , 2018, 847, 644-663.	3.4	12
167	Interplay between wall slip and cavitation: A complementary variable approach. <i>Tribology International</i> , 2019, 137, 324-339.	5.9	12
168	Controlling the number of vortices and torque in Taylorâ€“Couette flow. <i>Journal of Fluid Mechanics</i> , 2020, 901, .	3.4	12
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