

Daniele Dini

List of Publications by Citations

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

306
papers

5,261
citations

39
h-index

57
g-index

337
ext. papers

6,363
ext. citations

4.1
avg. IF

6.31
L-index

#	Paper	IF	Citations
306	Modeling and simulation in tribology across scales: An overview. <i>Tribology International</i> , 2018 , 125, 169-199	4.9	213
305	Recent developments in the understanding of fretting fatigue. <i>Engineering Fracture Mechanics</i> , 2006 , 73, 207-222	4.2	176
304	Meeting the Contact-Mechanics Challenge. <i>Tribology Letters</i> , 2017 , 65, 1	2.8	163
303	Comparative assessment of dissipated energy and other fatigue criteria?. <i>International Journal of Fatigue</i> , 2007 , 29, 1990-1995	5	103
302	Combinatorial scaffold morphologies for zonal articular cartilage engineering. <i>Acta Biomaterialia</i> , 2014 , 10, 2065-75	10.8	101
301	Advances in nonequilibrium molecular dynamics simulations of lubricants and additives. <i>Friction</i> , 2018 , 6, 349-386	5.6	85
300	Significant and stable drag reduction with air rings confined by alternated superhydrophobic and hydrophilic strips. <i>Science Advances</i> , 2017 , 3, e1603288	14.3	85
299	A Mass-Conserving Complementarity Formulation to Study Lubricant Films in the Presence of Cavitation. <i>Journal of Tribology</i> , 2010 , 132,	1.8	74
298	Influence of surface texturing on hydrodynamic friction in plane converging bearings - An experimental and numerical approach. <i>Tribology International</i> , 2019 , 134, 190-204	4.9	73
297	Nonequilibrium Molecular Dynamics Simulations of Organic Friction Modifiers Adsorbed on Iron Oxide Surfaces. <i>Langmuir</i> , 2016 , 32, 4450-63	4	72
296	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	4.9	67
295	A Comparison of Classical Force-Fields for Molecular Dynamics Simulations of Lubricants. <i>Materials</i> , 2016 , 9,	3.5	65
294	Cryogenic 3D Printing of Super Soft Hydrogels. <i>Scientific Reports</i> , 2017 , 7, 16293	4.9	62
293	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, 530-43	2.1	62
292	A composite hydrogel for brain tissue phantoms. <i>Materials and Design</i> , 2016 , 112, 227-238	8.1	62
291	Nanoporous Substrate-Infiltrated Hydrogels: a Bioinspired Regenerable Surface for High Load Bearing and Tunable Friction. <i>Advanced Functional Materials</i> , 2015 , 25, 7366-7374	15.6	61
290	On the characterization of the heterogeneous mechanical response of human brain tissue. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017 , 16, 907-920	3.8	60

289	Analytical and Numerical Models for Tangential Stiffness of Rough Elastic Contacts. <i>Tribology Letters</i> , 2013 , 49, 103-115	2.8	59
288	Modelling and experimental characterisation of the rate dependent fracture properties of gelatine gels. <i>Food Hydrocolloids</i> , 2015 , 46, 180-190	10.6	58
287	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, 1419-28	6.2	57
286	Lubrication in soft rough contacts: A novel homogenized approach. Part I - Theory. <i>Soft Matter</i> , 2011 , 7, 10395	3.6	57
285	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	4.9	53
284	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	3.1	52
283	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	5	48
282	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	4.9	48
281	Attenuation of the dynamic yield point of shocked aluminum using elastodynamic simulations of dislocation dynamics. <i>Physical Review Letters</i> , 2015 , 114, 174301	7.4	46
280	Tribological properties of PVA/PVP blend hydrogels against articular cartilage. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 78, 36-45	4.1	46
279	A dynamic discrete dislocation plasticity method for the simulation of plastic relaxation under shock loading. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2013 , 469, 20130141	2.4	46
278	Soft Tissue Phantoms for Realistic Needle Insertion: A Comparative Study. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 2442-2452	4.7	45
277	Effects of fiber orientation on the frictional properties and damage of regenerative articular cartilage surfaces. <i>Tissue Engineering - Part A</i> , 2013 , 19, 2300-10	3.9	44
276	Stress gradient effects in fretting fatigue. <i>Tribology International</i> , 2003 , 36, 71-78	4.9	44
275	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	7.6	44
274	Crack tip deformation fields and fatigue crack growth rates in TiBAl ₃ V. <i>International Journal of Fatigue</i> , 2009 , 31, 1771-1779	5	43
273	Nonequilibrium molecular dynamics simulations of stearic acid adsorbed on iron surfaces with nanoscale roughness. <i>Tribology International</i> , 2017 , 107, 264-273	4.9	42
272	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	4.9	40

271	Mechanics of rough contacts in elastic and viscoelastic thin layers. <i>International Journal of Solids and Structures</i> , 2015 , 69-70, 507-517	3.1	40
270	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. <i>Journal of Critical Care</i> , 2011 , 26, 415-22	4	40
269	Evaluation and analysis of residual stresses due to foreign object damage. <i>Mechanics of Materials</i> , 2007 , 39, 199-211	3.3	40
268	The use of notch and short crack approaches to fretting fatigue threshold prediction: Theory and experimental validation. <i>Tribology International</i> , 2006 , 39, 1158-1165	4.9	39
267	Bounded asymptotic solutions for incomplete contacts in partial slip. <i>International Journal of Solids and Structures</i> , 2004 , 41, 7049-7062	3.1	39
266	On the effect of confined fluid molecular structure on nonequilibrium phase behaviour and friction. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 17883-17894	3.6	38
265	Experimental Evidence of Micro-EHL Lubrication in Rough Soft Contacts. <i>Tribology Letters</i> , 2011 , 43, 169-174	3.8	38
264	Comprehensive bounded asymptotic solutions for incomplete contacts in partial slip. <i>Journal of the Mechanics and Physics of Solids</i> , 2005 , 53, 437-454	5	38
263	Asymptotic characterisation of nearly-sharp notch root stress fields. <i>International Journal of Fracture</i> , 2004 , 130, 651-666	2.3	37
262	Soft Matter Lubrication: Does Solid Viscoelasticity Matter?. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 42287-42295	9.5	36
261	Characteristics of the process zone at sharp notch roots. <i>International Journal of Solids and Structures</i> , 2011 , 48, 2177-2183	3.1	35
260	Pressure dependence of confined liquid behavior subjected to boundary-driven shear. <i>Journal of Chemical Physics</i> , 2012 , 136, 134705	3.9	35
259	Traction and nonequilibrium phase behavior of confined sheared liquids at high pressure. <i>Physical Review E</i> , 2013 , 88, 052406	2.4	34
258	The principle of strain reconstruction tomography: Determination of quench strain distribution from diffraction measurements. <i>Acta Materialia</i> , 2006 , 54, 2101-2108	8.4	34
257	Nonequilibrium Molecular Dynamics Investigation of the Reduction in Friction and Wear by Carbon Nanoparticles Between Iron Surfaces. <i>Tribology Letters</i> , 2016 , 63, 1	2.8	33
256	Experimental Investigation of Viscoelastic Rolling Contacts: A Comparison with Theory. <i>Tribology Letters</i> , 2013 , 51, 105-113	2.8	32
255	Frictional Energy Dissipation in a Rough Hertzian Contact. <i>Journal of Tribology</i> , 2009 , 131,	1.8	32
254	Feasibility study of neutron strain tomography. <i>Procedia Engineering</i> , 2009 , 1, 185-188		32

253	High Lubricity Meets Load Capacity: Cartilage Mimicking Bilayer Structure by Brushing Up Stiff Hydrogels from Subsurface. <i>Advanced Functional Materials</i> , 2020 , 30, 2004062	15.6	32
252	Correlation of fretting fatigue experimental results using an asymptotic approach. <i>International Journal of Fatigue</i> , 2012 , 43, 62-75	5	31
251	The equivalence between volume averaging and method of planes definitions of the pressure tensor at a plane. <i>Journal of Chemical Physics</i> , 2011 , 135, 024512	3.9	31
250	Series Active Variable Geometry Suspension for Road Vehicles. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 361-372	5.5	29
249	Lubrication in soft rough contacts: A novel homogenized approach. Part II - Discussion. <i>Soft Matter</i> , 2011 , 7, 10407	3.6	29
248	Two classes of short intraflagellar transport train with different 3D structures are present in <i>Chlamydomonas</i> flagella. <i>Journal of Cell Science</i> , 2016 , 129, 2064-74	5.3	29
247	The influence of surface roughness and adhesion on particle rolling. <i>Powder Technology</i> , 2017 , 312, 321-333	3.3	28
246	Finite element modelling and diffraction measurement of elastic strains during tensile deformation of HCP polycrystals. <i>Computational Materials Science</i> , 2008 , 44, 131-137	3.2	28
245	Tribology-optimised silk protein hydrogels for articular cartilage repair. <i>Tribology International</i> , 2015 , 89, 9-18	4.9	26
244	An accurate force-displacement law for the modelling of elastic-plastic contacts in discrete element simulations. <i>Powder Technology</i> , 2015 , 282, 2-9	5.2	26
243	Do uniform tangential interfacial stresses enhance adhesion?. <i>Journal of the Mechanics and Physics of Solids</i> , 2018 , 112, 145-156	5	26
242	Adsorption of Surfactants on α -Fe ₂ O ₃ (0001): A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 20817-20826	3.8	26
241	Control-volume representation of molecular dynamics. <i>Physical Review E</i> , 2012 , 85, 056705	2.4	25
240	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	1.3	25
239	Pore shapes, volume distribution and orientations in monodisperse granular assemblies. <i>Granular Matter</i> , 2015 , 17, 727-742	2.6	23
238	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	1.3	23
237	Composite hydrogel: A high fidelity soft tissue mimic for surgery. <i>Materials and Design</i> , 2018 , 160, 886-894	3.4	23
236	Slip of Alkanes Confined between Surfactant Monolayers Adsorbed on Solid Surfaces. <i>Langmuir</i> , 2018 , 34, 3864-3873	4	22

235	Theory of reciprocating contact for viscoelastic solids. <i>Physical Review E</i> , 2016 , 93, 043003	2.4	22
234	A General Finite Volume Method for the Solution of the Reynolds Lubrication Equation with a Mass-Conserving Cavitation Model. <i>Tribology Letters</i> , 2015 , 60, 1	2.8	21
233	Contact of a rotating wheel with a flat. <i>International Journal of Solids and Structures</i> , 2007 , 44, 3304-3316	3.1	21
232	A new method for the quantification of nucleation of fretting fatigue cracks using asymptotic contact solutions. <i>Tribology International</i> , 2006 , 39, 1114-1122	4.9	21
231	The significance of rate dependency in blade insertions into a gelatin soft tissue phantom. <i>Tribology International</i> , 2013 , 63, 226-234	4.9	20
230	Probing intra-granular deformation by micro-beam Laue diffraction. <i>Procedia Engineering</i> , 2009 , 1, 193-196		20
229	Prediction of the slip zone friction coefficient in flat and rounded contact. <i>Wear</i> , 2003 , 254, 364-369	3.5	20
228	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	3.5	19
227	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	1.4	18
226	Unraveling and Mapping the Mechanisms for Near-Surface Microstructure Evolution in CuNi Alloys under Sliding. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 32197-32208	9.5	18
225	Models and tissue mimics for brain shift simulations. <i>Biomechanics and Modeling in Mechanobiology</i> , 2018 , 17, 249-261	3.8	18
224	The tilted shallow wedge problem. <i>European Journal of Mechanics, A/Solids</i> , 2005 , 24, 919-928	3.7	18
223	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	3.9	18
222	Nanohydrogel Brushes for Switchable Underwater Adhesion. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 8452-8463	3.8	17
221	An axi-symmetric Hertzian Contact subject to cyclic shear and severe wear. <i>Wear</i> , 2008 , 265, 1918-1922	3.5	17
220	The contact problem for a wheel having a flat. <i>Wear</i> , 2006 , 261, 1265-1270	3.5	17
219	Flat and rounded fretting contact problems incorporating elastic layers. <i>International Journal of Mechanical Sciences</i> , 2004 , 46, 1635-1657	5.5	17
218	The finite and semi-infinite tilted, flat but rounded punch. <i>International Journal of Solids and Structures</i> , 2005 , 42, 4988-5009	3.1	17

217	A phase field model of pressure-assisted sintering. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 173-182	6	17
216	The mechanics and physics of high-speed dislocations: a critical review. <i>International Materials Reviews</i> , 2021 , 66, 215-255	16.1	17
215	Determination of the shakedown limit for large, discrete frictional systems. <i>European Journal of Mechanics, A/Solids</i> , 2015 , 49, 242-250	3.7	16
214	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	5.5	16
213	Effect of tissue permeability and drug diffusion anisotropy on convection-enhanced delivery. <i>Drug Delivery</i> , 2019 , 26, 773-781	7	16
212	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	16
211	Shear heating, flow, and friction of confined molecular fluids at high pressure. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 5813-5823	3.6	16
210	Tribological evaluation of biomedical polycarbonate urethanes against articular cartilage. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 82, 394-402	4.1	15
209	3D Measurements of Lubricant and Surface Temperatures Within an Elastohydrodynamic Contact. <i>Tribology Letters</i> , 2018 , 66, 7	2.8	15
208	The influence of temperature on viscoelastic friction properties. <i>Tribology International</i> , 2016 , 100, 338-343	4.9	15
207	Simulating Surfactant-Iron Oxide Interfaces: From Density Functional Theory to Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 6870-6881	3.4	15
206	Boundary-controlled barostats for slab geometries in molecular dynamics simulations. <i>Physical Review E</i> , 2014 , 90, 043302	2.4	15
205	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	15
204	Liquid repellency enhancement through flexible microstructures. <i>Science Advances</i> , 2020 , 6, eaba9721	14.3	15
203	Transport coefficients of the Lennard-Jones fluid close to the freezing line. <i>Journal of Chemical Physics</i> , 2019 , 151, 204502	3.9	15
202	Fast laser surface texturing of spherical samples to improve the frictional performance of elasto-hydrodynamic lubricated contacts. <i>Friction</i> , 2021 , 9, 1227-1241	5.6	15
201	Series Active Variable Geometry Suspension application to comfort enhancement. <i>Control Engineering Practice</i> , 2017 , 59, 111-126	3.9	14
200	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	4.4	14

199	Sharp edged contacts subject to fretting: A description of corner behaviour. <i>International Journal of Fatigue</i> , 2015 , 71, 26-34	5	14
198	An adaptive finite element model for steerable needles. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020 , 19, 1809-1825	3.8	14
197	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	4.9	14
196	Inverse eigenstrain analysis of residual stresses in friction stir welds. <i>Procedia Engineering</i> , 2009 , 1, 213-216		14
195	Quarter-Car Experimental Study for Series Active Variable Geometry Suspension. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 743-759	4.8	14
194	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	2.7	13
193	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	1.4	13
192	The Influence of Surface Topography on Energy Dissipation and Compliance in Tangentially Loaded Elastic Contacts. <i>Journal of Tribology</i> , 2012 , 134,	1.8	13
191	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	13
190	Influence of Fabric on Stress Distribution in Gap-Graded Soil. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021 , 147, 04021016	3.4	13
189	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	4.4	12
188	A computational fluid dynamics approach to determine white matter permeability. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019 , 18, 1111-1122	3.8	12
187	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	12
186	An overview of the quantification of fretting fatigue lives of complete contacts. <i>Engineering Fracture Mechanics</i> , 2012 , 80, 3-12	4.2	12
185	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	5	12
184	Crystal plasticity and hardening: A dislocation dynamics study. <i>Procedia Engineering</i> , 2009 , 1, 241-244		12
183	Measurement of Residual Elastic Strains in a Titanium Alloy Using High Energy Synchrotron X-Ray Diffraction. <i>Experimental Mechanics</i> , 2006 , 46, 519-529	2.6	12
182	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	1.3	12

181	Hypoid gear vehicle axle efficiency. <i>Tribology International</i> , 2016 , 101, 314-323	4.9	11
180	Role of Deprotonation Free Energies in pKa Prediction and Molecule Ranking. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 2537-45	6.4	11
179	The Role of Homogeneous Nucleation in Planar Dynamic Discrete Dislocation Plasticity. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2015 , 82,	2.7	11
178	Elastodynamic image forces on dislocations. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015 , 471, 20150433	2.4	11
177	The method of planes pressure tensor for a spherical subvolume. <i>Journal of Chemical Physics</i> , 2014 , 140, 054506	3.9	11
176	What level of friction guarantees adhesion in a complete contact?. <i>Journal of Strain Analysis for Engineering Design</i> , 2004 , 39, 549-551	1.3	11
175	Polyelectrolyte pKa from experiment and molecular dynamics simulation. <i>RSC Advances</i> , 2017 , 7, 20007-20014	3.9	10
174	Bioinspired 3D Printed Locomotion Devices Based on Anisotropic Friction. <i>Small</i> , 2019 , 15, e1802931	11	10
173	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	3.9	10
172	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,	2.1	10
171	Refinements in the characterisation of mode-mixity and small scale yielding at sharp notch roots. <i>Engineering Fracture Mechanics</i> , 2014 , 126, 73-86	4.2	10
170	Digital image correlation and finite element analysis of inter- and intra-granular deformation. <i>Procedia Engineering</i> , 2009 , 1, 197-200		10
169	Detection of proteoglycan loss from articular cartilage using Brillouin microscopy, with applications to osteoarthritis. <i>Biomedical Optics Express</i> , 2019 , 10, 2457-2466	3.5	10
168	Instabilities of High Speed Dislocations. <i>Physical Review Letters</i> , 2018 , 121, 145502	7.4	10
167	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 1-1	5.5	9
166	Substituent Effects on the Thermal Decomposition of Phosphate Esters on Ferrous Surfaces. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 9852-9865	3.8	9
165	A computational geometry approach to pore network construction for granular packings. <i>Computers and Geosciences</i> , 2018 , 112, 133-143	4.5	9
164	Parallel Active Link Suspension: A Quarter-Car Experimental Study. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018 , 23, 2066-2077	5.5	9

163	Dynamic Discrete Dislocation Plasticity. <i>Advances in Applied Mechanics</i> , 2014 , 93-224	10	9
162	A virtual crystal plasticity simulation tool for micro-forming. <i>Procedia Engineering</i> , 2009 , 1, 75-78		9
161	Synchrotron XRD study of residual stress in a shot peened Al/SiCp composite. <i>Procedia Engineering</i> , 2009 , 1, 221-224		9
160	Closure at the root of a sharp notch. <i>International Journal of Mechanical Sciences</i> , 2006 , 48, 1063-1071	5.5	9
159	A correlation of the process zone properties in complete, incomplete and almost complete fretting contacts. <i>International Journal of Mechanical Sciences</i> , 2004 , 46, 491-508	5.5	9
158	Effect of Temperature on the Deformation Behavior of Copper Nickel Alloys under Sliding. <i>Materials</i> , 2020 , 14,	3.5	9
157	Incremental viscosity by non-equilibrium molecular dynamics and the Eyring model. <i>Journal of Chemical Physics</i> , 2018 , 148, 194506	3.9	9
156	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	3.1	8
155	Progress in the application of notch asymptotics to the understanding of complete contacts subject to fretting fatigue. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2013 , 36, 56-64	3	8
154	The derivation and application of a semi-infinite flat and rounded asymptotic frictionless contact. <i>International Journal of Mechanical Sciences</i> , 2009 , 51, 662-666	5.5	8
153	A quadratic programming formulation for the solution of layered elastic contact problems: Example applications and experimental validation. <i>European Journal of Mechanics, A/Solids</i> , 2011 , 30, 236-247	3.7	8
152	Torsional contact of an elastic flat-ended cylinder. <i>Journal of the Mechanics and Physics of Solids</i> , 2008 , 56, 3352-3362	5	8
151	The effect of a crack-tip radius on the validity of the singular solution. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2004 , 218, 693-701	1.3	8
150	A refined CLNA model in fretting fatigue using asymptotic characterization of the contact stress fields. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2005 , 28, 1099-1112	3	8
149	Experimental Validation of a Mixed-Lubrication Regime Model for Textured Piston-Ring-Liner Contacts. <i>Materials Performance and Characterization</i> , 2017 , 6, MPC20160019	0.5	8
148	Evolving pore orientation, shape and size in sheared granular assemblies. <i>Granular Matter</i> , 2019 , 21, 1	2.6	8
147	Computing drag and interactions between fluid and polydisperse particles in saturated granular materials. <i>Computers and Geotechnics</i> , 2020 , 117, 103210	4.4	8
146	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	9.5	8

145	Interplay between wall slip and cavitation: A complementary variable approach. <i>Tribology International</i> , 2019 , 137, 324-339	4.9	7
144	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	4.9	7
143	The injection of a screw dislocation into a crystal: Atomistics vs. continuum elastodynamics. <i>Journal of the Mechanics and Physics of Solids</i> , 2017 , 98, 366-389	5	7
142	Friction Induced Vibration in Windscreen Wiper Contacts. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2015 , 137,	1.6	7
141	Optimal Placement of Piezoelectric Plates to Control Multimode Vibrations of a Beam. <i>Advances in Acoustics and Vibration</i> , 2013 , 2013, 1-8	0.8	7
140	Probabilistic methods in predicting damage under multi-stage fatigue of composites using load block sequences. <i>Procedia Engineering</i> , 2009 , 1, 55-58		7
139	Residual strain analysis in polycrystalline aggregates using diffraction measurement and finite element modelling. <i>Journal of Strain Analysis for Engineering Design</i> , 2009 , 44, 55-70	1.3	7
138	. <i>Journal of Strain Analysis for Engineering Design</i> , 2016 , 51, 240-246	1.3	7
137	Design and optimization of a liquid ring thrust bearing. <i>Tribology International</i> , 2020 , 149, 105588	4.9	7
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- 1 Morphometric study of the ventricular indexes in healthy ovine BRAIN using MRI.. *BMC Veterinary Research*, **2022**, 18, 97 2.7