

Daniele Dini

List of Publications by Year in Descending Order

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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	Microscale characterisation of the time-dependent mechanical behaviour of brain white matter. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022 , 125, 104917	4.1	2
305	Anomalous boundary behavior of non-Newtonian fluids on amphiphobic surfaces. <i>Tribology International</i> , 2022 , 165, 107261	4.9	0
304	Acoustic Emission Enabled Particle Size Estimation via Low Stress-Varied Axial Interface Shearing. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022 , 71, 1-10	5.2	1
303	Insights into Infusion-Based Targeted Drug Delivery in the Brain: Perspectives, Challenges and Opportunities.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	2
302	Effect of Particle Size and Surface Charge on Nanoparticles Diffusion in the Brain White Matter.. <i>Pharmaceutical Research</i> , 2022 , 1	4.5	5
301	Intrinsic viscut probability distribution functions for transport coefficients of liquids and solids.. <i>Journal of Chemical Physics</i> , 2022 , 156, 124501	3.9	0
300	Morphometric study of the ventricular indexes in healthy ovine BRAIN using MRI.. <i>BMC Veterinary Research</i> , 2022 , 18, 97	2.7	
299	Slip and stress from low shear rate nonequilibrium molecular dynamics: The transient-time correlation function technique.. <i>Journal of Chemical Physics</i> , 2022 , 156, 184111	3.9	1
298	A new finite element paradigm to solve contact problems with roughness. <i>International Journal of Solids and Structures</i> , 2022 , 111643	3.1	1
297	Parallel Active Link Suspension: Full Car Application With Frequency-Dependent Multiobjective Control Strategies. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-16	4.8	1
296	Mechanochemistry of phosphate esters confined between sliding iron surfaces. <i>Communications Chemistry</i> , 2021 , 4,	6.3	4
295	Analysis of an Actuated Frictional Interface for Improved Dynamic Performance. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2021 , 227-230	0.3	
294	Strength of interference screw fixation of meniscus prosthesis matches native meniscus attachments. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2021 , 1	5.5	0
293	On the Origin of Plastic Deformation and Surface Evolution in Nano-Fretting: A Discrete Dislocation Plasticity Analysis. <i>Materials</i> , 2021 , 14,	3.5	2
292	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	5	6
291	On the origin of microstructural discontinuities in sliding contacts: A discrete dislocation plasticity analysis. <i>International Journal of Plasticity</i> , 2021 , 138, 102942	7.6	5
290	A dual nozzle 3D printing system for super soft composite hydrogels.. <i>HardwareX</i> , 2021 , 9, e00176	2.7	4

289	Cartilage rehydration: The sliding-induced hydrodynamic triggering mechanism. <i>Acta Biomaterialia</i> , 2021 , 125, 90-99	10.8	5
288	A novel CFD-DEM coarse-graining method based on the Voronoi tessellation. <i>Powder Technology</i> , 2021 , 384, 479-493	5.2	3
287	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
286	The use of Powder Metallurgy for promoting friction reduction under sliding-rolling lubricated conditions. <i>Tribology International</i> , 2021 , 157, 106892	4.9	2
285	Flexibility-Patterned Liquid-Repelling Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 29092-29100	9.5	1
284	Biomimetic Water-Repelling Surfaces with Robustly Flexible Structures. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 31310-31319	9.5	4
283	Molecular droplets vs bubbles: Effect of curvature on surface tension and Tolman length. <i>Physics of Fluids</i> , 2021 , 33, 072012	4.4	3
282	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	4.1	5
281	The mechanics and physics of high-speed dislocations: a critical review. <i>International Materials Reviews</i> , 2021 , 66, 215-255	16.1	17
280	Ab initio insights into the interaction mechanisms between boron, nitrogen and oxygen doped diamond surfaces and water molecules. <i>Carbon</i> , 2021 , 171, 575-584	10.4	5
279	Tribological Rehydration and Its Role on Frictional Behavior of PVA/GO Hydrogels for Cartilage Replacement Under Migrating and Stationary Contact Conditions. <i>Tribology Letters</i> , 2021 , 69, 1	2.8	5
278	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	5	7
277	Integrating Diffusion Tensor Imaging and Neurite Orientation Dispersion and Density Imaging to Improve the Predictive Capabilities of CED Models. <i>Annals of Biomedical Engineering</i> , 2021 , 49, 689-702	4.7	3
276	Using Ultrasonic Reflection Resonance to Probe Stress Wave Velocity in Assemblies of Spherical Particles. <i>IEEE Sensors Journal</i> , 2021 , 1-1	4	1
275	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
274	Series Active Variable Geometry Suspension: Full-Car Prototyping and Road Testing. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-1	5.5	3
273	Contributions of Molecular Dynamics Simulations to Elastohydrodynamic Lubrication. <i>Tribology Letters</i> , 2021 , 69, 1	2.8	5
272	Scale-Dependent Friction-Coverage Relations and Nonlocal Dissipation in Surfactant Monolayers. <i>Langmuir</i> , 2021 , 37, 2406-2418	4	5

271	Viscous and the fluctuation theorem investigation of shear viscosity by molecular dynamics simulations: The information and the noise. <i>Journal of Chemical Physics</i> , 2021 , 154, 074503	3.9	2
270	The effect of fluid viscoelasticity in lubricated contacts in the presence of cavitation. <i>Tribology International</i> , 2021 , 160, 107011	4.9	5
269	Interfacial Bonding Controls Friction in Diamond-Rock Contacts. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 18395-18408	3.8	1
268	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,	11.5	3
267	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
266	Single trajectory transport coefficients and the energy landscape by molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2020 , 152, 194504	3.9	5
265	An adaptive finite element model for steerable needles. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020 , 19, 1809-1825	3.8	14
264	The interaction of galling and oxidation in 316L stainless steel. <i>Wear</i> , 2020 , 450-451, 203234	3.5	4
263	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
262	Transient structures in rupturing thin films: Marangoni-induced symmetry-breaking pattern formation in viscous fluids. <i>Science Advances</i> , 2020 , 6, eabb0597	14.3	4
261	Capturing the hardness of coating systems across the scales. <i>Surface and Coatings Technology</i> , 2020 , 394, 125860	4.4	5
260	Hemiarthroplasties: the choice of prosthetic material causes different levels of damage in the articular cartilage. <i>Journal of Shoulder and Elbow Surgery</i> , 2020 , 29, 1019-1029	4.3	6
259	A study of thermal effects in EHL rheology and friction using infrared microscopy. <i>Tribology International</i> , 2020 , 146, 106179	4.9	1
258	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
257	Uncertainties Investigation and μ -Synthesis Control Design for a Full Car with Series Active Variable Geometry Suspension. <i>IFAC-PapersOnLine</i> , 2020 , 53, 13882-13889	0.7	1
256	Effect of Temperature on the Deformation Behavior of Copper Nickel Alloys under Sliding. <i>Materials</i> , 2020 , 14,	3.5	9
255	Droplet manipulation of hierarchical steel surfaces using femtosecond laser fabrication. <i>Applied Surface Science</i> , 2020 , 521, 146474	6.7	6
254	The roles of adhesion, internal heat generation and elevated temperatures in normally loaded, sliding rough surfaces. <i>International Journal of Solids and Structures</i> , 2020 , 185-186, 14-28	3.1	2

253	Self-Compensating Liquid-Repellent Surfaces with Stratified Morphology. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 4174-4182	9.5	6
252	Exploiting air cushion effects to optimise a superhydrophobic/hydrophilic patterned liquid ring sealed air bearing. <i>Tribology International</i> , 2020 , 144, 106129	4.9	6
251	Tuning the periodic V-peeling behavior of elastic tapes applied to thin compliant substrates. <i>International Journal of Mechanical Sciences</i> , 2020 , 170, 105331	5.5	5
250	CPL library A minimal framework for coupled particle and continuum simulation. <i>Computer Physics Communications</i> , 2020 , 250, 107068	4.2	2
249	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	4.1	2
248	Liquid repellency enhancement through flexible microstructures. <i>Science Advances</i> , 2020 , 6, eaba9721	14.3	15
247	Statistical Analysis and Molecular Dynamics Simulations of the Thermal Conductivity of Lennard-Jones Solids Including Their Pressure and Temperature Dependencies. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 2000344	1.3	2
246	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
245	Ab Initio Study of Polytetrafluoroethylene Defluorination for Tribocharging Applications. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 5129-5134	4.3	2
244	Controlling the number of vortices and torque in Taylor-Couette flow. <i>Journal of Fluid Mechanics</i> , 2020 , 901,	3.7	5
243	What Does a Brain Feel Like?. <i>Journal of Chemical Education</i> , 2020 , 97, 4078-4083	2.4	0
242	Design and optimization of a liquid ring thrust bearing. <i>Tribology International</i> , 2020 , 149, 105588	4.9	7
241	Nonequilibrium Molecular Dynamics Simulations of Tribological Systems. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2020 , 95-130	0.6	1
240	Contact Mechanics of Rubber and Soft Matter. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2020 , 279-330	0.6	1
239	Computing drag and interactions between fluid and polydisperse particles in saturated granular materials. <i>Computers and Geotechnics</i> , 2020 , 117, 103210	4.4	8
238	Position Control of Parallel Active Link Suspension With Backlash. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 4741-4751	8.9	3
237	Mixed-mode crack propagation during needle penetration for surgical interventions. <i>Procedia Structural Integrity</i> , 2019 , 18, 775-780	1	
236	Bioinspired 3D Printed Locomotion Devices Based on Anisotropic Friction. <i>Small</i> , 2019 , 15, e1802931	11	10

235	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
234	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
233	Interplay between wall slip and cavitation: A complementary variable approach. <i>Tribology International</i> , 2019 , 137, 324-339	4.9	7
232	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
231	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
230	Three-Dimensional Printed Surfaces Inspired by Bi-Gaussian Stratified Plateaus. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20528-20534	9.5	6
229	Characterization and simulation of bi-Gaussian surfaces induced by material transfer and additive processes. <i>Tribology International</i> , 2019 , 136, 31-44	4.9	4
228	A discrete crack dynamics model of toughening in brittle polycrystalline material by crack deflection. <i>Engineering Fracture Mechanics</i> , 2019 , 214, 95-111	4.2	4
227	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
226	Bi-Gaussian Stratified Wetting Model on Rough Surfaces. <i>Langmuir</i> , 2019 , 35, 5967-5974	4	6
225	A computational fluid dynamics approach to determine white matter permeability. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019 , 18, 1111-1122	3.8	12
224	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
223	Effect of tissue permeability and drug diffusion anisotropy on convection-enhanced delivery. <i>Drug Delivery</i> , 2019 , 26, 773-781	7	16
222	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
221	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
220	First-Principles Insights into the Structural and Electronic Properties of Polytetrafluoroethylene in Its High-Pressure Phase (Form III). <i>Journal of Physical Chemistry C</i> , 2019 , 123, 6250-6255	3.8	5
219	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
218	A Combined Experimental and Theoretical Study on the Mechanisms Behind Tribocharging Phenomenon and the Influence of Triboemission. <i>Tribology Online</i> , 2019 , 14, 367-374	0.9	3

217	Robust Control for a Full-Car Prototype of Series Active Variable Geometry Suspension* 2019 ,		2
216	Transport coefficients of the Lennard-Jones fluid close to the freezing line. <i>Journal of Chemical Physics</i> , 2019 , 151, 204502	3.9	15
215	Evolving pore orientation, shape and size in sheared granular assemblies. <i>Granular Matter</i> , 2019 , 21, 1	2.6	8
214	A phase field model of pressure-assisted sintering. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 173-182	6	17
213	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
212	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
211	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
210	Modeling and simulation in tribology across scales: An overview. <i>Tribology International</i> , 2018 , 125, 169-199	4.9	213
209	A computational geometry approach to pore network construction for granular packings. <i>Computers and Geosciences</i> , 2018 , 112, 133-143	4.5	9
208	Do uniform tangential interfacial stresses enhance adhesion?. <i>Journal of the Mechanics and Physics of Solids</i> , 2018 , 112, 145-156	5	26
207	Electronic remote blood issue combined with a computer-controlled, automated refrigerator for major surgery in operating theatres at a distance from the transfusion service. <i>Transfusion</i> , 2018 , 58, 372-378	2.9	5
206	Advances in nonequilibrium molecular dynamics simulations of lubricants and additives. <i>Friction</i> , 2018 , 6, 349-386	5.6	85
205	3D Measurements of Lubricant and Surface Temperatures Within an Elastohydrodynamic Contact. <i>Tribology Letters</i> , 2018 , 66, 7	2.8	15
204	Slip of Alkanes Confined between Surfactant Monolayers Adsorbed on Solid Surfaces. <i>Langmuir</i> , 2018 , 34, 3864-3873	4	22
203	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
202	Models and tissue mimics for brain shift simulations. <i>Biomechanics and Modeling in Mechanobiology</i> , 2018 , 17, 249-261	3.8	18
201	Investigation of the Influence of Different Asperity Contact Models on the Elastohydrodynamic Analysis of a Conrod Small-End/Piston Pin Coupling. <i>SAE International Journal of Engines</i> , 2018 , 11, 919-934	3.4	2
200	Adsorption of Surfactants on $\beta\text{-Fe}_2\text{O}_3(0001)$: A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 20817-20826	3.8	26

199	Parallel Active Link Suspension: A Quarter-Car Experimental Study. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018 , 23, 2066-2077	5.5	9
198	Control Design for a Quarter Car Test Rig with Parallel Active Link Suspension 2018 ,		4
197	Capillary waves with surface viscosity. <i>Journal of Fluid Mechanics</i> , 2018 , 847, 644-663	3.7	5
196	Effective Diffusion and Tortuosity in Brain White Matter. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 4901-4904	0.9	5
195	Instabilities of High Speed Dislocations. <i>Physical Review Letters</i> , 2018 , 121, 145502	7.4	10
194	Composite hydrogel: A high fidelity soft tissue mimic for surgery. <i>Materials and Design</i> , 2018 , 160, 886-894	8.4	23
193	Incremental viscosity by non-equilibrium molecular dynamics and the Eyring model. <i>Journal of Chemical Physics</i> , 2018 , 148, 194506	3.9	9
192	The influence of surface roughness and adhesion on particle rolling. <i>Powder Technology</i> , 2017 , 312, 321-333	3.3	28
191	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
190	Polyelectrolyte pKa from experiment and molecular dynamics simulation. <i>RSC Advances</i> , 2017 , 7, 20007-20014	3.7	10
189	Analytical derivation of water retention for random monodisperse granular media. <i>Acta Geotechnica</i> , 2017 , 12, 1319-1328	4.9	6
188	Towards the Irving-Kirkwood limit of the mechanical stress tensor. <i>Journal of Chemical Physics</i> , 2017 , 146, 224109	3.9	6
187	Nanohydrogel Brushes for Switchable Underwater Adhesion. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 8452-8463	3.8	17
186	Series Active Variable Geometry Suspension application to comfort enhancement. <i>Control Engineering Practice</i> , 2017 , 59, 111-126	3.9	14
185	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
184	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
183	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
182	Model Identification and Control for a Quarter Car Test Rig of Series Active Variable Geometry Suspension. <i>IFAC-PapersOnLine</i> , 2017 , 50, 3376-3381	0.7	5

181	Cryogenic 3D Printing of Super Soft Hydrogels. <i>Scientific Reports</i> , 2017 , 7, 16293	4.9	62
180	Sensitivity analysis of Immersed Boundary Method simulations of fluid flow in dense polydisperse random grain packings. <i>EPJ Web of Conferences</i> , 2017 , 140, 15006	0.3	1
179	Meeting the Contact-Mechanics Challenge. <i>Tribology Letters</i> , 2017 , 65, 1	2.8	163
178	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
177	Non-Equilibrium Phase Behavior of Confined Molecular Films at Low Shear Rates. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1600862	1.3	1
176	Sliding wear analysis of cobalt based alloys in nuclear reactor conditions. <i>Wear</i> , 2017 , 376-377, 1489-1503	3.5	3
175	Nanowire Stretching by Non-Equilibrium Molecular Dynamics. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1600861	1.3	2
174	Marangoni effect on small-amplitude capillary waves in viscous fluids. <i>Physical Review E</i> , 2017 , 96, 053110	1.4	0
173	Soft Matter Lubrication: Does Solid Viscoelasticity Matter?. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 42287-42295	9.5	36
172	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
171	Molecular Dynamics Studies of Overbased Detergents on a Water Surface. <i>Langmuir</i> , 2017 , 33, 7263-7270	1.4	4
170	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
169	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
168	Before the bubble ruptures. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	1
167	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
166	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
165	Theory of reciprocating contact for viscoelastic solids. <i>Physical Review E</i> , 2016 , 93, 043003	2.4	22
164	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

163	Soft Tissue Phantoms for Realistic Needle Insertion: A Comparative Study. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 2442-2452	4.7	45
162	Hypoid gear vehicle axle efficiency. <i>Tribology International</i> , 2016 , 101, 314-323	4.9	11
161	The influence of temperature on viscoelastic friction properties. <i>Tribology International</i> , 2016 , 100, 338-343	4.9	15
160	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
159	A Comparison of Classical Force-Fields for Molecular Dynamics Simulations of Lubricants. <i>Materials</i> , 2016 , 9,	3.5	65
158	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
157	Equilibrium fluctuations of liquid state static properties in a subvolume by molecular dynamics. <i>Journal of Chemical Physics</i> , 2016 , 145, 104504	3.9	2
156	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
155	. <i>Journal of Strain Analysis for Engineering Design</i> , 2016 , 51, 240-246	1.3	7
154	Nonequilibrium Molecular Dynamics Simulations of Organic Friction Modifiers Adsorbed on Iron Oxide Surfaces. <i>Langmuir</i> , 2016 , 32, 4450-63	4	72
153	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
152	A composite hydrogel for brain tissue phantoms. <i>Materials and Design</i> , 2016 , 112, 227-238	8.1	62
151	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
150	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
149	Tribology-optimised silk protein hydrogels for articular cartilage repair. <i>Tribology International</i> , 2015 , 89, 9-18	4.9	26
148	Modelling and experimental characterisation of the rate dependent fracture properties of gelatine gels. <i>Food Hydrocolloids</i> , 2015 , 46, 180-190	10.6	58
147	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
146	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 1-1	5.5	9

145	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
144	A molecular dynamics study of CaCO ₃ nanoparticles in a hydrophobic solvent with a stearate co-surfactant. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 13575-81	3.6	3
143	A localized momentum constraint for non-equilibrium molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2015 , 142, 074110	3.9	5
142	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
141	Pore shapes, volume distribution and orientations in monodisperse granular assemblies. <i>Granular Matter</i> , 2015 , 17, 727-742	2.6	23
140	Active Variable Geometry Suspension robust control for improved vehicle ride comfort and road holding 2015 ,		5
139	Series Active Variable Geometry Suspension for Road Vehicles. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 361-372	5.5	29
138	Sharp edged contacts subject to fretting: A description of corner behaviour. <i>International Journal of Fatigue</i> , 2015 , 71, 26-34	5	14
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- 1 Imaging and reconstruction of the cytoarchitecture of axonal fibres: enabling biomedical engineering studies involving brain microstructure

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