

# Daniele Dini

## List of Publications by Year in descending order

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Version: 2024-02-01

329  
papers

7,530  
citations

76031

42  
h-index

107981

68  
g-index

337  
all docs

337  
docs citations

337  
times ranked

6181  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Series Active Variable Geometry Suspension: Full-Car Prototyping and Road Testing. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1332-1344.  | 3.7 | 9         |
| 2  | Anomalous boundary behavior of non-Newtonian fluids on amphiphobic surfaces. Tribology International, 2022, 165, 107261.   | 3.0 | 4         |
| 3  | Strength of interference screw fixation of meniscus prosthesis matches native meniscus attachments. Knee Surgery, Sports Traumatology, Arthroscopy, 2022, 30, 2259-2266.                           | 2.3 | 2         |
| 4  | Microscale characterisation of the time-dependent mechanical behaviour of brain white matter. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 125, 104917.                       | 1.5 | 12        |
| 5  | Parallel Active Link Suspension: Full Car Application With Frequency-Dependent Multiobjective Control Strategies. IEEE Transactions on Control Systems Technology, 2022, 30, 2046-2061.            | 3.2 | 3         |
| 6  | Coarse-grained molecular models of the surface of hair. Soft Matter, 2022, 18, 1779-1792.  | 1.2 | 7         |
| 7  | Physical observations of the transient evolution of the porosity distribution during internal erosion using spatial time domain reflectometry. Canadian Geotechnical Journal, 2022, 59, 1443-1458. | 1.4 | 4         |
| 8  | Acoustic Emission Enabled Particle Size Estimation via Low Stress-Variied Axial Interface Shearing. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.                          | 2.4 | 1         |
| 9  | Insights into Infusion-Based Targeted Drug Delivery in the Brain: Perspectives, Challenges and Opportunities. International Journal of Molecular Sciences, 2022, 23, 3139.                         | 1.8 | 14        |
| 10 | Effect of Particle Size and Surface Charge on Nanoparticles Diffusion in the Brain White Matter. Pharmaceutical Research, 2022, 39, 767-781.   | 1.7 | 26        |
| 11 | Intrinsic viscuit probability distribution functions for transport coefficients of liquids and solids. Journal of Chemical Physics, 2022, 156, 124501.   | 1.2 | 3         |
| 12 | Morphometric study of the ventricular indexes in healthy ovine BRAIN using MRI. BMC Veterinary Research, 2022, 18, 97.   | 0.7 | 0         |
| 13 | The Intrinsic Fragility of the Liquid-Vapor Interface: A Stress Network Perspective. Langmuir, 2022, 38, 4669-4679.  | 1.6 | 3         |
| 14 | Slip and stress from low shear rate nonequilibrium molecular dynamics: The transient-time correlation function technique. Journal of Chemical Physics, 2022, 156, 184111.                          | 1.2 | 4         |
| 15 | A new finite element paradigm to solve contact problems with roughness. International Journal of Solids and Structures, 2022, , 111643.  | 1.3 | 5         |
| 16 | On the microstructurally driven heterogeneous response of brain white matter to drug infusion pressure. Biomechanics and Modeling in Mechanobiology, 2022, 21, 1299-1316.                          | 1.4 | 11        |
| 17 | Three-dimensional finite element simulation and experimental validation of sliding wear. Wear, 2022, 504-505, 204402.  | 1.5 | 8         |
| 18 | A fracture mechanics analysis of the micromechanical events in finite thickness fibre push-out tests. Theoretical and Applied Fracture Mechanics, 2022, 121, 103441.                               | 2.1 | 2         |

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|----|--|-----|-----------|
| 19 | Quantifying Wetting Dynamics with Triboelectrification. <i>Advanced Science</i> , 2022, 9, .   | 5.6 | 6         |
| 20 | Does speed kill or make friction better?â€”Designing materials for high velocity sliding. <i>Applied Materials Today</i> , 2022, 29, 101588.   | 2.3 | 4         |
| 21 | The mechanics and physics of high-speed dislocations: a critical review. <i>International Materials Reviews</i> , 2021, 66, 215-255.   | 9.4 | 35        |
| 22 | 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.  | 5.4 | 9         |
| 23 | 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.            | 1.2 | 11        |
| 24 | 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.     | 2.5 | 19        |
| 25 | 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.   | 1.3 | 8         |
| 26 | Using Ultrasonic Reflection Resonance to Probe Stress Wave Velocity in Assemblies of Spherical Particles. <i>IEEE Sensors Journal</i> , 2021, 21, 22489-22498.   | 2.4 | 3         |
| 27 | Normal Load and Counter Body Size Influence the Initiation of Microstructural Discontinuities in Copper during Sliding. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 4750-4760.                     | 4.0 | 18        |
| 28 | Contributions of Molecular Dynamics Simulations to Elastohydrodynamic Lubrication. <i>Tribology Letters</i> , 2021, 69, 1.   | 1.2 | 27        |
| 29 | Scale-Dependent Frictionâ€”Coverage Relations and Nonlocal Dissipation in Surfactant Monolayers. <i>Langmuir</i> , 2021, 37, 2406-2418.  | 1.6 | 6         |
| 30 | 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.                   | 1.2 | 8         |
| 31 | 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. | 2.3 | 23        |
| 32 | On the origin of microstructural discontinuities in sliding contacts: A discrete dislocation plasticity analysis. <i>International Journal of Plasticity</i> , 2021, 138, 102942.                                | 4.1 | 20        |
| 33 | A dual nozzle 3D printing system for super soft composite hydrogels. <i>HardwareX</i> , 2021, 9, e00176.   | 1.1 | 10        |
| 34 | Cartilage rehydration: The sliding-induced hydrodynamic triggering mechanism. <i>Acta Biomaterialia</i> , 2021, 125, 90-99.  | 4.1 | 10        |
| 35 | A novel CFD-DEM coarse-graining method based on the Voronoi tessellation. <i>Powder Technology</i> , 2021, 384, 479-493.   | 2.1 | 18        |
| 36 | Influence of Fabric on Stress Distribution in Gap-Graded Soil. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021, 147, .   | 1.5 | 28        |

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|----|---|-----|-----------|
| 37 | The use of Powder Metallurgy for promoting friction reduction under sliding-rolling lubricated conditions. <i>Tribology International</i> , 2021, 157, 106892.                      | 3.0 | 5         |
| 38 | Flexibility-Patterned Liquid-Repelling Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 29092-29100.   | 4.0 | 8         |
| 39 | Biomimetic Water-Repelling Surfaces with Robustly Flexible Structures. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 31310-31319.                                       | 4.0 | 14        |
| 40 | Molecular droplets vs bubbles: Effect of curvature on surface tension and Tolman length. <i>Physics of Fluids</i> , 2021, 33, .   | 1.6 | 15        |
| 41 | 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. | 1.5 | 13        |
| 42 | The effect of fluid viscoelasticity in lubricated contacts in the presence of cavitation. <i>Tribology International</i> , 2021, 160, 107011.                                       | 3.0 | 19        |
| 43 | Interfacial Bonding Controls Friction in Diamond–Rock Contacts. <i>Journal of Physical Chemistry C</i> , 2021, 125, 18395-18408.  | 1.5 | 9         |
| 44 | 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, .   | 3.3 | 13        |
| 45 | Fast laser surface texturing of spherical samples to improve the frictional performance of elasto-hydrodynamic lubricated contacts. <i>Friction</i> , 2021, 9, 1227-1241.           | 3.4 | 31        |
| 46 | Effect of Temperature on the Deformation Behavior of Copper Nickel Alloys under Sliding. <i>Materials</i> , 2021, 14, 60.   | 1.3 | 18        |
| 47 | On the Origin of Plastic Deformation and Surface Evolution in Nano-Fretting: A Discrete Dislocation Plasticity Analysis. <i>Materials</i> , 2021, 14, 6511.                         | 1.3 | 6         |
| 48 | 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 | 0         |
| 49 | Mechanochemistry of phosphate esters confined between sliding iron surfaces. <i>Communications Chemistry</i> , 2021, 4, .   | 2.0 | 21        |
| 50 | Design and optimization of a liquid ring thrust bearing. <i>Tribology International</i> , 2020, 149, 105588.  | 3.0 | 9         |
| 51 | Nonequilibrium Molecular Dynamics Simulations of Tribological Systems. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2020, , 95-130.             | 0.3 | 2         |
| 52 | Contact Mechanics of Rubber and Soft Matter. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2020, , 279-330.                                      | 0.3 | 1         |
| 53 | Computing drag and interactions between fluid and polydisperse particles in saturated granular materials. <i>Computers and Geotechnics</i> , 2020, 117, 103210.                     | 2.3 | 20        |
| 54 | Position Control of Parallel Active Link Suspension With Backlash. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 4741-4751.  | 5.2 | 6         |

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|----|---|-----|-----------|
| 55 | 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.                                       | 1.3 | 4         |
| 56 | Self-Compensating Liquid-Repellent Surfaces with Stratified Morphology. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 4174-4182.  | 4.0 | 9         |
| 57 | Exploiting air cushion effects to optimise a superhydrophobic/hydrophilic patterned liquid ring sealed air bearing. <i>Tribology International</i> , 2020, 144, 106129.   | 3.0 | 10        |
| 58 | Tuning the periodic V-peeling behavior of elastic tapes applied to thin compliant substrates. <i>International Journal of Mechanical Sciences</i> , 2020, 170, 105331.  | 3.6 | 13        |
| 59 | CPL library "A minimal framework for coupled particle and continuum simulation. <i>Computer Physics Communications</i> , 2020, 250, 107068.   | 3.0 | 11        |
| 60 | 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.                     | 1.5 | 13        |
| 61 | Liquid repellency enhancement through flexible microstructures. <i>Science Advances</i> , 2020, 6, eaba9721.  | 4.7 | 35        |
| 62 | 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. | 0.7 | 3         |
| 63 | High Lubricity Meets Load Capacity: Cartilage Mimicking Bilayer Structure by Brushing Up Stiff Hydrogels from Subsurface. <i>Advanced Functional Materials</i> , 2020, 30, 2004062.   | 7.8 | 118       |
| 64 | Ab Initio Study of Polytetrafluoroethylene Defluorination for Tribocharging Applications. <i>ACS Applied Polymer Materials</i> , 2020, 2, 5129-5134.  | 2.0 | 5         |
| 65 | Controlling the number of vortices and torque in Taylor-Couette flow. <i>Journal of Fluid Mechanics</i> , 2020, 901, .  | 1.4 | 12        |
| 66 | What Does a Brain Feel Like?. <i>Journal of Chemical Education</i> , 2020, 97, 4078-4083.   | 1.1 | 1         |
| 67 | Single trajectory transport coefficients and the energy landscape by molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2020, 152, 194504.  | 1.2 | 7         |
| 68 | An adaptive finite element model for steerable needles. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 1809-1825.   | 1.4 | 27        |
| 69 | The interaction of galling and oxidation in 316L stainless steel. <i>Wear</i> , 2020, 450-451, 203234.  | 1.5 | 6         |
| 70 | Unraveling and Mapping the Mechanisms for Near-Surface Microstructure Evolution in CuNi Alloys under Sliding. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 32197-32208.  | 4.0 | 32        |
| 71 | Transient structures in rupturing thin films: Marangoni-induced symmetry-breaking pattern formation in viscous fluids. <i>Science Advances</i> , 2020, 6, eabb0597.   | 4.7 | 7         |
| 72 | Capturing the hardness of coating systems across the scales. <i>Surface and Coatings Technology</i> , 2020, 394, 125860.  | 2.2 | 7         |

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|----|--|-----|-----------|
| 73 | 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.                        | 1.2 | 9         |
| 74 | A study of thermal effects in EHL rheology and friction using infrared microscopy. <i>Tribology International</i> , 2020, 146, 106179.   | 3.0 | 3         |
| 75 | Substituent Effects on the Thermal Decomposition of Phosphate Esters on Ferrous Surfaces. <i>Journal of Physical Chemistry C</i> , 2020, 124, 9852-9865.   | 1.5 | 24        |
| 76 | Droplet manipulation of hierarchical steel surfaces using femtosecond laser fabrication. <i>Applied Surface Science</i> , 2020, 521, 146474.   | 3.1 | 13        |
| 77 | Uncertainties Investigation and $\hat{\mu}$ -Synthesis Control Design for a Full Car with Series Active Variable Geometry Suspension. <i>IFAC-PapersOnLine</i> , 2020, 53, 13882-13889.                        | 0.5 | 2         |
| 78 | 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, .  | 0.8 | 13        |
| 79 | Effect of tissue permeability and drug diffusion anisotropy on convection-enhanced delivery. <i>Drug Delivery</i> , 2019, 26, 773-781.   | 2.5 | 26        |
| 80 | Simulating Surfactant—Iron Oxide Interfaces: From Density Functional Theory to Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2019, 123, 6870-6881.  | 1.2 | 28        |
| 81 | Mixed-mode crack propagation during needle penetration for surgical interventions. <i>Procedia Structural Integrity</i> , 2019, 18, 775-780.   | 0.3 | 0         |
| 82 | Bioinspired 3D Printed Locomotion Devices Based on Anisotropic Friction. <i>Small</i> , 2019, 15, e1802931.  | 5.2 | 21        |
| 83 | Influence of surface texturing on hydrodynamic friction in plane converging bearings - An experimental and numerical approach. <i>Tribology International</i> , 2019, 134, 190-204.                            | 3.0 | 111       |
| 84 | 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.            | 2.2 | 23        |
| 85 | Interplay between wall slip and cavitation: A complementary variable approach. <i>Tribology International</i> , 2019, 137, 324-339.  | 3.0 | 12        |
| 86 | 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.                | 1.2 | 20        |
| 87 | 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. | 3.0 | 18        |
| 88 | Three-Dimensional Printed Surfaces Inspired by Bi-Gaussian Stratified Plateaus. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 20528-20534.   | 4.0 | 8         |
| 89 | Characterization and simulation of bi-Gaussian surfaces induced by material transfer and additive processes. <i>Tribology International</i> , 2019, 136, 31-44.  | 3.0 | 6         |
| 90 | A discrete crack dynamics model of toughening in brittle polycrystalline material by crack deflection. <i>Engineering Fracture Mechanics</i> , 2019, 214, 95-111.  | 2.0 | 7         |

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|-----|--|-----|-----------|
| 91  | 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.   | 2.3 | 26        |
| 92  | Bi-Gaussian Stratified Wetting Model on Rough Surfaces. <i>Langmuir</i> , 2019, 35, 5967-5974.   | 1.6 | 10        |
| 93  | A computational fluid dynamics approach to determine white matter permeability. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 1111-1122.  | 1.4 | 21        |
| 94  | 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. | 1.5 | 10        |
| 95  | Shear heating, flow, and friction of confined molecular fluids at high pressure. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 5813-5823.   | 1.3 | 25        |
| 96  | 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.                         | 0.2 | 5         |
| 97  | Robust Control for a Full-Car Prototype of Series Active Variable Geometry Suspension. , 2019, , .   |     | 3         |
| 98  | Transport coefficients of the Lennard-Jones fluid close to the freezing line. <i>Journal of Chemical Physics</i> , 2019, 151, 204502.  | 1.2 | 28        |
| 99  | Evolving pore orientation, shape and size in sheared granular assemblies. <i>Granular Matter</i> , 2019, 21, 1.  | 1.1 | 17        |
| 100 | A phase field model of pressure-assisted sintering. <i>Journal of the European Ceramic Society</i> , 2019, 39, 173-182.  | 2.8 | 35        |
| 101 | Quarter-Car Experimental Study for Series Active Variable Geometry Suspension. <i>IEEE Transactions on Control Systems Technology</i> , 2019, 27, 743-759.   | 3.2 | 25        |
| 102 | Detection of proteoglycan loss from articular cartilage using Brillouin microscopy, with applications to osteoarthritis. <i>Biomedical Optics Express</i> , 2019, 10, 2457.                              | 1.5 | 17        |
| 103 | 10.1063/1.5095501.1. , 2019, , .   |     | 0         |
| 104 | Tribological evaluation of biomedical polycarbonate urethanes against articular cartilage. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 82, 394-402.                        | 1.5 | 28        |
| 105 | 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.        | 1.3 | 12        |
| 106 | Modeling and simulation in tribology across scales: An overview. <i>Tribology International</i> , 2018, 125, 169-199.  | 3.0 | 335       |
| 107 | A computational geometry approach to pore network construction for granular packings. <i>Computers and Geosciences</i> , 2018, 112, 133-143.   | 2.0 | 19        |
| 108 | Do uniform tangential interfacial stresses enhance adhesion?. <i>Journal of the Mechanics and Physics of Solids</i> , 2018, 112, 145-156.  | 2.3 | 36        |

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|-----|---|-----|-----------|
| 109 | 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. | 0.8 | 7         |
| 110 | Advances in nonequilibrium molecular dynamics simulations of lubricants and additives. <i>Friction</i> , 2018, 6, 349-386.  | 3.4 | 118       |
| 111 | 3D Measurements of Lubricant and Surface Temperatures Within an Elastohydrodynamic Contact. <i>Tribology Letters</i> , 2018, 66, 7.   | 1.2 | 20        |
| 112 | Slip of Alkanes Confined between Surfactant Monolayers Adsorbed on Solid Surfaces. <i>Langmuir</i> , 2018, 34, 3864-3873.   | 1.6 | 37        |
| 113 | Tribological properties of PVA/PVP blend hydrogels against articular cartilage. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 78, 36-45.  | 1.5 | 65        |
| 114 | Models and tissue mimics for brain shift simulations. <i>Biomechanics and Modeling in Mechanobiology</i> , 2018, 17, 249-261.   | 1.4 | 25        |
| 115 | Effective Diffusion and Tortuosity in Brain White Matter. , 2018, 2018, 4901-4904.  |     | 5         |
| 116 | Instabilities of High Speed Dislocations. <i>Physical Review Letters</i> , 2018, 121, 145502.   | 2.9 | 33        |
| 117 | Composite hydrogel: A high fidelity soft tissue mimic for surgery. <i>Materials and Design</i> , 2018, 160, 886-894.  | 3.3 | 45        |
| 118 | Incremental viscosity by non-equilibrium molecular dynamics and the Eyring model. <i>Journal of Chemical Physics</i> , 2018, 148, 194506.   | 1.2 | 11        |
| 119 | Adsorption of Surfactants on $\hat{\Gamma}$ -Fe <sub>2</sub> O <sub>3</sub> (0001): A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20817-20826.                               | 1.5 | 39        |
| 120 | Parallel Active Link Suspension: A Quarter-Car Experimental Study. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018, 23, 2066-2077.   | 3.7 | 17        |
| 121 | Control Design for a Quarter Car Test Rig with Parallel Active Link Suspension. , 2018, , .   |     | 4         |
| 122 | Capillary waves with surface viscosity. <i>Journal of Fluid Mechanics</i> , 2018, 847, 644-663.   | 1.4 | 12        |
| 123 | The influence of surface roughness and adhesion on particle rolling. <i>Powder Technology</i> , 2017, 312, 321-333.   | 2.1 | 36        |
| 124 | On the characterization of the heterogeneous mechanical response of human brain tissue. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 907-920.   | 1.4 | 92        |
| 125 | Polyelectrolyte pK <sub>a</sub> from experiment and molecular dynamics simulation. <i>RSC Advances</i> , 2017, 7, 20007-20014.  | 1.7 | 18        |
| 126 | Analytical derivation of water retention for random monodisperse granular media. <i>Acta Geotechnica</i> , 2017, 12, 1319-1328.   | 2.9 | 7         |



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|-----|---|-----|-----------|
| 127 | Towards the Irving-Kirkwood limit of the mechanical stress tensor. <i>Journal of Chemical Physics</i> , 2017, 146, 224109.  | 1.2 | 12        |
| 128 | Nanohydrogel Brushes for Switchable Underwater Adhesion. <i>Journal of Physical Chemistry C</i> , 2017, 121, 8452-8463.   | 1.5 | 22        |
| 129 | Series Active Variable Geometry Suspension application to comfort enhancement. <i>Control Engineering Practice</i> , 2017, 59, 111-126.   | 3.2 | 19        |
| 130 | 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. | 3.0 | 53        |
| 131 | Nonequilibrium molecular dynamics simulations of stearic acid adsorbed on iron surfaces with nanoscale roughness. <i>Tribology International</i> , 2017, 107, 264-273.  | 3.0 | 57        |
| 132 | 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.               | 3.0 | 90        |
| 133 | Model Identification and Control for a Quarter Car Test Rig of Series Active Variable Geometry Suspension. <i>IFAC-PapersOnLine</i> , 2017, 50, 3376-3381.  | 0.5 | 8         |
| 134 | Meeting the Contact-Mechanics Challenge. <i>Tribology Letters</i> , 2017, 65, 1.  | 1.2 | 232       |
| 135 | Significant and stable drag reduction with air rings confined by alternated superhydrophobic and hydrophilic strips. <i>Science Advances</i> , 2017, 3, e1603288.   | 4.7 | 127       |
| 136 | Non-equilibrium Phase Behavior of Confined Molecular Films at Low Shear Rates. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600862.   | 0.7 | 1         |
| 137 | Sliding wear analysis of cobalt based alloys in nuclear reactor conditions. <i>Wear</i> , 2017, 376-377, 1489-1501.   | 1.5 | 8         |
| 138 | Nanowire Stretching by Non-equilibrium Molecular Dynamics. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600861.   | 0.7 | 2         |
| 139 | Marangoni effect on small-amplitude capillary waves in viscous fluids. <i>Physical Review E</i> , 2017, 96, 053110.   | 0.8 | 3         |
| 140 | Soft Matter Lubrication: Does Solid Viscoelasticity Matter?. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 42287-42295.  | 4.0 | 50        |
| 141 | On the effect of confined fluid molecular structure on nonequilibrium phase behaviour and friction. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 17883-17894.                                       | 1.3 | 51        |
| 142 | Molecular Dynamics Studies of Overbased Detergents on a Water Surface. <i>Langmuir</i> , 2017, 33, 7263-7270.   | 1.6 | 5         |
| 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.                                      | 2.3 | 9         |
| 144 | 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.                                      | 2.3 | 13        |

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|-----|--|-----|-----------|
| 145 | Cryogenic 3D Printing of Super Soft Hydrogels. Scientific Reports, 2017, 7, 16293.   | 1.6 | 98        |
| 146 | Sensitivity analysis of Immersed Boundary Method simulations of fluid flow in dense polydisperse random grain packings. EPJ Web of Conferences, 2017, 140, 15006.                      | 0.1 | 1         |
| 147 | The effect of temperature on the elastic precursor decay in shock loaded FCC aluminium and BCC iron. International Journal of Plasticity, 2017, 96, 135-155.                           | 4.1 | 65        |
| 148 | Before the bubble ruptures. Physical Review Fluids, 2017, 2, .   | 1.0 | 1         |
| 149 | Experimental Validation of a Mixed-Lubrication Regime Model for Textured Piston-Ring-Liner Contacts. Materials Performance and Characterization, 2017, 6, MPC20160019.                 | 0.2 | 10        |
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