

Daniele Dini

List of Publications by Year in descending order

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329
papers

7,530
citations

66343

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337
all docs

337
docs citations

337
times ranked

5538
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.	5.8	9
2	Anomalous boundary behavior of non-Newtonian fluids on amphiphobic surfaces. Tribology International, 2022, 165, 107261.	5.9	4
3	Strength of interference screw fixation of meniscus prosthesis matches native meniscus attachments. Knee Surgery, Sports Traumatology, Arthroscopy, 2022, 30, 2259-2266.	4.2	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.	3.1	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.	5.2	3
6	Coarse-grained molecular models of the surface of hair. Soft Matter, 2022, 18, 1779-1792.	2.7	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.	2.8	4
8	Acoustic Emission Enabled Particle Size Estimation via Low Stress-Varied Axial Interface Shearing. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	4.7	1
9	Insights into Infusion-Based Targeted Drug Delivery in the Brain: Perspectives, Challenges and Opportunities. International Journal of Molecular Sciences, 2022, 23, 3139.	4.1	14
10	Effect of Particle Size and Surface Charge on Nanoparticles Diffusion in the Brain White Matter. Pharmaceutical Research, 2022, 39, 767-781.	3.5	26
11	Intrinsic viscuit probability distribution functions for transport coefficients of liquids and solids. Journal of Chemical Physics, 2022, 156, 124501.	3.0	3
12	Morphometric study of the ventricular indexes in healthy ovine BRAIN using MRI. BMC Veterinary Research, 2022, 18, 97.	1.9	0
13	The Intrinsic Fragility of the Liquid-Vapor Interface: A Stress Network Perspective. Langmuir, 2022, 38, 4669-4679.	3.5	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.	3.0	4
15	A new finite element paradigm to solve contact problems with roughness. International Journal of Solids and Structures, 2022, , 111643.	2.7	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.	2.8	11
17	Three-dimensional finite element simulation and experimental validation of sliding wear. Wear, 2022, 504-505, 204402.	3.1	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.	4.7	2

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19	Quantifying Wetting Dynamics with Triboelectrification. <i>Advanced Science</i> , 2022, 9, .	11.2	6
20	Does speed kill or make friction better?â€”Designing materials for high velocity sliding. <i>Applied Materials Today</i> , 2022, 29, 101588.	4.3	4
21	The mechanics and physics of high-speed dislocations: a critical review. <i>International Materials Reviews</i> , 2021, 66, 215-255.	19.3	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.	10.3	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.	2.6	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.	4.2	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.	2.5	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.	4.7	3
27	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
28	Contributions of Molecular Dynamics Simulations to Elastohydrodynamic Lubrication. <i>Tribology Letters</i> , 2021, 69, 1.	2.6	27
29	Scale-Dependent Frictionâ€™Coverage Relations and Nonlocal Dissipation in Surfactant Monolayers. <i>Langmuir</i> , 2021, 37, 2406-2418.	3.5	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.	3.0	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.	4.8	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.	8.8	20
33	A dual nozzle 3D printing system for super soft composite hydrogels. <i>HardwareX</i> , 2021, 9, e00176.	2.2	10
34	Cartilage rehydration: The sliding-induced hydrodynamic triggering mechanism. <i>Acta Biomaterialia</i> , 2021, 125, 90-99.	8.3	10
35	A novel CFD-DEM coarse-graining method based on the Voronoi tessellation. <i>Powder Technology</i> , 2021, 384, 479-493.	4.2	18
36	Influence of Fabric on Stress Distribution in Gap-Graded Soil. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021, 147, .	3.0	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.	5.9	5
38	Flexibility-Patterned Liquid-Repelling Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 29092-29100.	8.0	8
39	Biomimetic Water-Repelling Surfaces with Robustly Flexible Structures. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 31310-31319.	8.0	14
40	Molecular droplets vs bubbles: Effect of curvature on surface tension and Tolman length. <i>Physics of Fluids</i> , 2021, 33, .	4.0	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.	3.1	13
42	The effect of fluid viscoelasticity in lubricated contacts in the presence of cavitation. <i>Tribology International</i> , 2021, 160, 107011.	5.9	19
43	Interfacial Bonding Controls Friction in Diamond–Rock Contacts. <i>Journal of Physical Chemistry C</i> , 2021, 125, 18395-18408.	3.1	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, .	7.1	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.	6.4	31
46	Effect of Temperature on the Deformation Behavior of Copper Nickel Alloys under Sliding. <i>Materials</i> , 2021, 14, 60.	2.9	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.	2.9	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.	0.5	0
49	Mechanochemistry of phosphate esters confined between sliding iron surfaces. <i>Communications Chemistry</i> , 2021, 4, .	4.5	21
50	Design and optimization of a liquid ring thrust bearing. <i>Tribology International</i> , 2020, 149, 105588.	5.9	9
51	Nonequilibrium Molecular Dynamics Simulations of Tribological Systems. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2020, , 95-130.	0.6	2
52	Contact Mechanics of Rubber and Soft Matter. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2020, , 279-330.	0.6	1
53	Computing drag and interactions between fluid and polydisperse particles in saturated granular materials. <i>Computers and Geotechnics</i> , 2020, 117, 103210.	4.7	20
54	Position Control of Parallel Active Link Suspension With Backlash. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 4741-4751.	7.9	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.	2.7	4
56	Self-Compensating Liquid-Repellent Surfaces with Stratified Morphology. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4174-4182.	8.0	9
57	Exploiting air cushion effects to optimise a superhydrophobic/hydrophilic patterned liquid ring sealed air bearing. <i>Tribology International</i> , 2020, 144, 106129.	5.9	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.	6.7	13
59	CPL library "A minimal framework for coupled particle and continuum simulation. <i>Computer Physics Communications</i> , 2020, 250, 107068.	7.5	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.	3.1	13
61	Liquid repellency enhancement through flexible microstructures. <i>Science Advances</i> , 2020, 6, eaba9721.	10.3	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.	1.5	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.	14.9	118
64	Ab Initio Study of Polytetrafluoroethylene Defluorination for Tribocharging Applications. <i>ACS Applied Polymer Materials</i> , 2020, 2, 5129-5134.	4.4	5
65	Controlling the number of vortices and torque in Taylor-Couette flow. <i>Journal of Fluid Mechanics</i> , 2020, 901, .	3.4	12
66	What Does a Brain Feel Like?. <i>Journal of Chemical Education</i> , 2020, 97, 4078-4083.	2.3	1
67	Single trajectory transport coefficients and the energy landscape by molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2020, 152, 194504.	3.0	7
68	An adaptive finite element model for steerable needles. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 1809-1825.	2.8	27
69	The interaction of galling and oxidation in 316L stainless steel. <i>Wear</i> , 2020, 450-451, 203234.	3.1	6
70	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.	8.0	32
71	Transient structures in rupturing thin films: Marangoni-induced symmetry-breaking pattern formation in viscous fluids. <i>Science Advances</i> , 2020, 6, eabb0597.	10.3	7
72	Capturing the hardness of coating systems across the scales. <i>Surface and Coatings Technology</i> , 2020, 394, 125860.	4.8	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.	2.6	9
74	A study of thermal effects in EHL rheology and friction using infrared microscopy. <i>Tribology International</i> , 2020, 146, 106179.	5.9	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.	3.1	24
76	Droplet manipulation of hierarchical steel surfaces using femtosecond laser fabrication. <i>Applied Surface Science</i> , 2020, 521, 146474.	6.1	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.	0.9	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, .	1.5	13
79	Effect of tissue permeability and drug diffusion anisotropy on convection-enhanced delivery. <i>Drug Delivery</i> , 2019, 26, 773-781.	5.7	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.	2.6	28
81	Mixed-mode crack propagation during needle penetration for surgical interventions. <i>Procedia Structural Integrity</i> , 2019, 18, 775-780.	0.8	0
82	Bioinspired 3D Printed Locomotion Devices Based on Anisotropic Friction. <i>Small</i> , 2019, 15, e1802931.	10.0	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.	5.9	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.	4.8	23
85	Interplay between wall slip and cavitation: A complementary variable approach. <i>Tribology International</i> , 2019, 137, 324-339.	5.9	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.	3.0	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.	5.9	18
88	Three-Dimensional Printed Surfaces Inspired by Bi-Gaussian Stratified Plateaus. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20528-20534.	8.0	8
89	Characterization and simulation of bi-Gaussian surfaces induced by material transfer and additive processes. <i>Tribology International</i> , 2019, 136, 31-44.	5.9	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.	4.3	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.	4.7	26
92	Bi-Gaussian Stratified Wetting Model on Rough Surfaces. <i>Langmuir</i> , 2019, 35, 5967-5974.	3.5	10
93	A computational fluid dynamics approach to determine white matter permeability. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 1111-1122.	2.8	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.	3.1	10
95	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
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.	0.9	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.	3.0	28
99	Evolving pore orientation, shape and size in sheared granular assemblies. <i>Granular Matter</i> , 2019, 21, 1.	2.2	17
100	A phase field model of pressure-assisted sintering. <i>Journal of the European Ceramic Society</i> , 2019, 39, 173-182.	5.7	35
101	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
102	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
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.	3.1	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.	2.7	12
106	Modeling and simulation in tribology across scales: An overview. <i>Tribology International</i> , 2018, 125, 169-199.	5.9	335
107	A computational geometry approach to pore network construction for granular packings. <i>Computers and Geosciences</i> , 2018, 112, 133-143.	4.2	19
108	Do uniform tangential interfacial stresses enhance adhesion?. <i>Journal of the Mechanics and Physics of Solids</i> , 2018, 112, 145-156.	4.8	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.	1.6	7
110	Advances in nonequilibrium molecular dynamics simulations of lubricants and additives. <i>Friction</i> , 2018, 6, 349-386.	6.4	118
111	3D Measurements of Lubricant and Surface Temperatures Within an Elastohydrodynamic Contact. <i>Tribology Letters</i> , 2018, 66, 7.	2.6	20
112	Slip of Alkanes Confined between Surfactant Monolayers Adsorbed on Solid Surfaces. <i>Langmuir</i> , 2018, 34, 3864-3873.	3.5	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.	3.1	65
114	Models and tissue mimics for brain shift simulations. <i>Biomechanics and Modeling in Mechanobiology</i> , 2018, 17, 249-261.	2.8	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.	7.8	33
117	Composite hydrogel: A high fidelity soft tissue mimic for surgery. <i>Materials and Design</i> , 2018, 160, 886-894.	7.0	45
118	Incremental viscosity by non-equilibrium molecular dynamics and the Eyring model. <i>Journal of Chemical Physics</i> , 2018, 148, 194506.	3.0	11
119	Adsorption of Surfactants on $\hat{\Gamma}$ -Fe ₂ O ₃ (0001): A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20817-20826.	3.1	39
120	Parallel Active Link Suspension: A Quarter-Car Experimental Study. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018, 23, 2066-2077.	5.8	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.	3.4	12
123	The influence of surface roughness and adhesion on particle rolling. <i>Powder Technology</i> , 2017, 312, 321-333.	4.2	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.	2.8	92
125	Polyelectrolyte pK _a from experiment and molecular dynamics simulation. <i>RSC Advances</i> , 2017, 7, 20007-20014.	3.6	18
126	Analytical derivation of water retention for random monodisperse granular media. <i>Acta Geotechnica</i> , 2017, 12, 1319-1328.	5.7	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.	3.0	12
128	Nanohydrogel Brushes for Switchable Underwater Adhesion. <i>Journal of Physical Chemistry C</i> , 2017, 121, 8452-8463.	3.1	22
129	Series Active Variable Geometry Suspension application to comfort enhancement. <i>Control Engineering Practice</i> , 2017, 59, 111-126.	5.5	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.	5.9	53
131	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
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.	5.9	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.	0.9	8
134	Meeting the Contact-Mechanics Challenge. <i>Tribology Letters</i> , 2017, 65, 1.	2.6	232
135	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
136	Non-equilibrium Phase Behavior of Confined Molecular Films at Low Shear Rates. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600862.	1.5	1
137	Sliding wear analysis of cobalt based alloys in nuclear reactor conditions. <i>Wear</i> , 2017, 376-377, 1489-1501.	3.1	8
138	Nanowire Stretching by Non-equilibrium Molecular Dynamics. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600861.	1.5	2
139	Marangoni effect on small-amplitude capillary waves in viscous fluids. <i>Physical Review E</i> , 2017, 96, 053110.	2.1	3
140	Soft Matter Lubrication: Does Solid Viscoelasticity Matter?. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42287-42295.	8.0	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.	2.8	51
142	Molecular Dynamics Studies of Overbased Detergents on a Water Surface. <i>Langmuir</i> , 2017, 33, 7263-7270.	3.5	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.	4.8	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.	4.8	13

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145	Cryogenic 3D Printing of Super Soft Hydrogels. <i>Scientific Reports</i> , 2017, 7, 16293.	3.3	98
146	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
147	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
148	Before the bubble ruptures. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	1
149	Experimental Validation of a Mixed-Lubrication Regime Model for Textured Piston-Ring-Liner Contacts. <i>Materials Performance and Characterization</i> , 2017, 6, MPC20160019.	0.3	10
150	A Comparison of Classical Force-Fields for Molecular Dynamics Simulations of Lubricants. <i>Materials</i> , 2016, 9, 651.	2.9	96
151	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
152	Equilibrium fluctuations of liquid state static properties in a subvolume by molecular dynamics. <i>Journal of Chemical Physics</i> , 2016, 145, 104504.	3.0	2
153	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
154	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
155	Nonequilibrium Molecular Dynamics Simulations of Organic Friction Modifiers Adsorbed on Iron Oxide Surfaces. <i>Langmuir</i> , 2016, 32, 4450-4463.	3.5	105
156	Two classes of short IFT trains with different 3D structure are present in <i>Chlamydomonas</i> flagella. <i>Journal of Cell Science</i> , 2016, 129, 2064-74.	2.0	41
157	A composite hydrogel for brain tissue phantoms. <i>Materials and Design</i> , 2016, 112, 227-238.	7.0	87
158	Nonequilibrium Molecular Dynamics Investigation of the Reduction in Friction and Wear by Carbon Nanoparticles Between Iron Surfaces. <i>Tribology Letters</i> , 2016, 63, 1.	2.6	46
159	Theory of reciprocating contact for viscoelastic solids. <i>Physical Review E</i> , 2016, 93, 043003.	2.1	30
160	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
161	Soft Tissue Phantoms for Realistic Needle Insertion: A Comparative Study. <i>Annals of Biomedical Engineering</i> , 2016, 44, 2442-2452.	2.5	58
162	Hypoid gear vehicle axle efficiency. <i>Tribology International</i> , 2016, 101, 314-323.	5.9	13

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163	The influence of temperature on viscoelastic friction properties. Tribology International, 2016, 100, 338-343.	5.9	20
164	Partial slip incomplete contacts under constant normal load and subject to periodic loading. International Journal of Mechanical Sciences, 2016, 108-109, 115-121.	6.7	19
165	A PARAMETRICALLY TIME-DEPENDENT METHODOLOGY FOR RECIPROCATING CONTACT MECHANICS BETWEEN VISCOELASTIC SOLIDS. , 2016, , .		0
166	The Role of Homogeneous Nucleation in Planar Dynamic Discrete Dislocation Plasticity. Journal of Applied Mechanics, Transactions ASME, 2015, 82, .	2.2	16
167	Elastohydrodynamic Analysis of the Conrod Small-End of a High Performance Motorbike Engine via a Mass Conserving Cavitation Algorithm. , 2015, , .		2
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