

John Elie Sader

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167
papers

11,321
citations

48
h-index

104
g-index

180
ext. papers

12,481
ext. citations

5.4
avg, IF

6.56
L-index

#	Paper	IF	Citations
167	Calibration of rectangular atomic force microscope cantilevers. <i>Review of Scientific Instruments</i> , 1999 , 70, 3967-3969	1.7	1601
166	Frequency response of cantilever beams immersed in viscous fluids with applications to the atomic force microscope. <i>Journal of Applied Physics</i> , 1998 , 84, 64-76	2.5	1036
165	Method for the calibration of atomic force microscope cantilevers. <i>Review of Scientific Instruments</i> , 1995 , 66, 3789-3798	1.7	770
164	Accurate formulas for interaction force and energy in frequency modulation force spectroscopy. <i>Applied Physics Letters</i> , 2004 , 84, 1801-1803	3.4	577
163	Normal and torsional spring constants of atomic force microscope cantilevers. <i>Review of Scientific Instruments</i> , 2004 , 75, 1988-1996	1.7	400
162	Theoretical analysis of the static deflection of plates for atomic force microscope applications. <i>Journal of Applied Physics</i> , 1993 , 74, 1-9	2.5	379
161	Experimental validation of theoretical models for the frequency response of atomic force microscope cantilever beams immersed in fluids. <i>Journal of Applied Physics</i> , 2000 , 87, 3978-3988	2.5	265
160	Microstructure-hardened silver nanowires. <i>Nano Letters</i> , 2006 , 6, 468-72	11.5	228
159	Parallel beam approximation for V-shaped atomic force microscope cantilevers. <i>Review of Scientific Instruments</i> , 1995 , 66, 4583-4587	1.7	222
158	Vibrational response of nanorods to ultrafast laser induced heating: theoretical and experimental analysis. <i>Journal of the American Chemical Society</i> , 2003 , 125, 14925-33	16.4	213
157	Mechanical properties of ZnO nanowires. <i>Physical Review Letters</i> , 2008 , 101, 175502	7.4	206
156	Frequency response of cantilever beams immersed in viscous fluids with applications to the atomic force microscope: Arbitrary mode order. <i>Journal of Applied Physics</i> , 2007 , 101, 044908	2.5	171
155	A generalized description of the elastic properties of nanowires. <i>Nano Letters</i> , 2006 , 6, 1101-6	11.5	168
154	Spring constant calibration of atomic force microscope cantilevers of arbitrary shape. <i>Review of Scientific Instruments</i> , 2012 , 83, 103705	1.7	167
153	Damping of acoustic vibrations in gold nanoparticles. <i>Nature Nanotechnology</i> , 2009 , 4, 492-5	28.7	162
152	Effect of surface stress on the stiffness of cantilever plates. <i>Physical Review Letters</i> , 2007 , 99, 206102	7.4	140
151	Surface stress induced deflections of cantilever plates with applications to the atomic force microscope: Rectangular plates. <i>Journal of Applied Physics</i> , 2001 , 89, 2911-2921	2.5	135

150	Structured water layers adjacent to biological membranes. <i>Biophysical Journal</i> , 2006 , 91, 2532-42	2.9	126
149	Accurate Analytic Formulas for the Double-Layer Interaction between Spheres. <i>Journal of Colloid and Interface Science</i> , 1995 , 171, 46-54	9.3	125
148	Ultimate-strength germanium nanowires. <i>Nano Letters</i> , 2006 , 6, 2964-8	11.5	123
147	Quantitative force measurements using frequency modulation atomic force microscopy?theoretical foundations. <i>Nanotechnology</i> , 2005 , 16, S94-S101	3.4	121
146	Torsional frequency response of cantilever beams immersed in viscous fluids with applications to the atomic force microscope. <i>Journal of Applied Physics</i> , 2002 , 92, 6262-6274	2.5	115
145	Frequency response of cantilever beams immersed in viscous fluids near a solid surface with applications to the atomic force microscope. <i>Journal of Applied Physics</i> , 2005 , 98, 114913	2.5	109
144	Long-Range Electrostatic Attractions between Identically Charged Particles in Confined Geometries: An Unresolved Problem. <i>Journal of Colloid and Interface Science</i> , 1999 , 213, 268-269	9.3	103
143	Inertial imaging with nanomechanical systems. <i>Nature Nanotechnology</i> , 2015 , 10, 339-44	28.7	102
142	Resonant frequencies of a rectangular cantilever beam immersed in a fluid. <i>Journal of Applied Physics</i> , 2006 , 100, 114916	2.5	102
141	Nanomechanical torsional resonators for frequency-shift infrared thermal sensing. <i>Nano Letters</i> , 2013 , 13, 1528-34	11.5	91
140	Nonlinear mode-coupling in nanomechanical systems. <i>Nano Letters</i> , 2013 , 13, 1622-6	11.5	84
139	Evolution of Colloidal Nanocrystals: Theory and Modeling of their Nucleation and Growth. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16342-16355	3.8	84
138	Small amplitude oscillations of a thin beam immersed in a viscous fluid near a solid surface. <i>Physics of Fluids</i> , 2005 , 17, 073102	4.4	81
137	Long-Range Electrostatic Attractions between Identically Charged Particles in Confined Geometries and the Poisson-Boltzmann Theory. <i>Langmuir</i> , 2000 , 16, 324-331	4	80
136	Stress-induced variations in the stiffness of micro- and nanocantilever beams. <i>Physical Review Letters</i> , 2012 , 108, 236101	7.4	77
135	Softening of the Symmetric Breathing Mode in Gold Particles by Laser-Induced Heating. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 7472-7478	3.4	76
134	Damping of acoustic vibrations of immobilized single gold nanorods in different environments. <i>Nano Letters</i> , 2013 , 13, 2710-6	11.5	74
133	A virtual instrument to standardise the calibration of atomic force microscope cantilevers. <i>Review of Scientific Instruments</i> , 2016 , 87, 093711	1.7	73

132	PROBING THE SURFACE OF LIVING DIATOMS WITH ATOMIC FORCE MICROSCOPY: THE NANOSTRUCTURE AND NANOMECHANICAL PROPERTIES OF THE MUCILAGE LAYER1. <i>Journal of Phycology</i> , 2003 , 39, 722-734	3	69
131	Viscoelastic flows in simple liquids generated by vibrating nanostructures. <i>Physical Review Letters</i> , 2013 , 111, 244502	7.4	67
130	Coherent Excitation of Vibrational Modes in Gold Nanorods. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 743-747	3.4	65
129	Susceptibility of atomic force microscope cantilevers to lateral forces. <i>Review of Scientific Instruments</i> , 2003 , 74, 2438-2443	1.7	64
128	Time-resolved spectroscopy of silver nanocubes: observation and assignment of coherently excited vibrational modes. <i>Journal of Chemical Physics</i> , 2007 , 126, 094709	3.9	61
127	Quantitative measurement of solvation shells using frequency modulated atomic force microscopy. <i>Nanotechnology</i> , 2005 , 16, S49-S53	3.4	61
126	General scaling law for stiffness measurement of small bodies with applications to the atomic force microscope. <i>Journal of Applied Physics</i> , 2005 , 97, 124903	2.5	59
125	Photoinduced Electron Transfer in the Strong Coupling Regime: Waveguide-Plasmon Polaritons. <i>Nano Letters</i> , 2016 , 16, 2651-6	11.5	55
124	In-plane deformation of cantilever plates with applications to lateral force microscopy. <i>Review of Scientific Instruments</i> , 2004 , 75, 878-883	1.7	55
123	Large-amplitude flapping of an inverted flag in a uniform steady flow \square vortex-induced vibration. <i>Journal of Fluid Mechanics</i> , 2016 , 793, 524-555	3.7	52
122	Accurate Analytic Formulae for the Far Field Effective Potential and Surface Charge Density of a Uniformly Charged Sphere. <i>Journal of Colloid and Interface Science</i> , 1997 , 188, 508-510	9.3	50
121	Tuning the acoustic frequency of a gold nanodisk through its adhesion layer. <i>Nature Communications</i> , 2015 , 6, 7022	17.4	48
120	Vibrational response of Au-Ag nanoboxes and nanocages to ultrafast laser-induced heating. <i>Nano Letters</i> , 2007 , 7, 1059-63	11.5	48
119	Velocity profile in the Knudsen layer according to the Boltzmann equation. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2008 , 464, 2015-2035	2.4	45
118	Oscillation of cylinders of rectangular cross section immersed in fluid. <i>Physics of Fluids</i> , 2010 , 22, 0520014.4	14.4	44
117	Mechanical properties of individual electrospun polymer-nanotube composite nanofibers. <i>Carbon</i> , 2009 , 47, 2253-2258	10.4	44
116	Nonmonotonic energy dissipation in microfluidic resonators. <i>Physical Review Letters</i> , 2009 , 102, 228103	7.4	43
115	Electrostatic Contribution to the Energy and Entropy of Protein Adsorption. <i>Journal of Colloid and Interface Science</i> , 1998 , 203, 218-221	9.3	43

114	Small amplitude oscillations of a flexible thin blade in a viscous fluid: Exact analytical solution. <i>Physics of Fluids</i> , 2006 , 18, 123102	4.4	43
113	Optomechanics of Single Aluminum Nanodisks. <i>Nano Letters</i> , 2017 , 17, 2575-2583	11.5	42
112	Non-Newtonian effects on immiscible viscous fingering in a radial Hele-Shaw cell. <i>Physical Review E</i> , 1994 , 49, 420-432	2.4	42
111	Influence of atomic force microscope cantilever tilt and induced torque on force measurements. <i>Journal of Applied Physics</i> , 2008 , 103, 064513	2.5	40
110	Quantitative force measurements in liquid using frequency modulation atomic force microscopy. <i>Applied Physics Letters</i> , 2004 , 85, 3575-3577	3.4	40
109	Frequency response of cantilever beams immersed in compressible fluids with applications to the atomic force microscope. <i>Journal of Applied Physics</i> , 2009 , 106, 094904	2.5	39
108	Theory of Acoustic Breathing Modes of CoreShell Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 1399-1402	3.4	39
107	Self-assembled nanoparticle drumhead resonators. <i>Nano Letters</i> , 2013 , 13, 2158-62	11.5	38
106	Vibrational coupling in plasmonic molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 11621-11626	11.5	37
105	Frequency modulation atomic force microscopy: a dynamic measurement technique for biological systems. <i>Nanotechnology</i> , 2005 , 16, S85-S89	3.4	36
104	Hollow Microtube Resonators via Silicon Self-Assembly toward Subattogram Mass Sensing Applications. <i>Nano Letters</i> , 2016 , 16, 1537-45	11.5	34
103	Probing silver deposition on single gold nanorods by their acoustic vibrations. <i>Nano Letters</i> , 2014 , 14, 915-22	11.5	34
102	Energy dissipation in microfluidic beam resonators. <i>Journal of Fluid Mechanics</i> , 2010 , 650, 215-250	3.7	34
101	Frequency modulation atomic force microscopy reveals individual intermediates associated with each unfolded I27 titin domain. <i>Biophysical Journal</i> , 2006 , 90, 640-7	2.9	33
100	Constitutive models for linear compressible viscoelastic flows of simple liquids at nanometer length scales. <i>Physics of Fluids</i> , 2015 , 27, 052002	4.4	32
99	Effect of surface stress on the stiffness of thin elastic plates and beams. <i>Physical Review B</i> , 2012 , 85,	3.3	32
98	Mechanical Damping of Longitudinal Acoustic Oscillations of Metal Nanoparticles in Solution. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 23732-23740	3.8	32
97	Velocity gradient singularity and structure of the velocity profile in the Knudsen layer according to the Boltzmann equation. <i>Physical Review E</i> , 2007 , 76, 026315	2.4	32

96	Compressible Viscoelastic Liquid Effects Generated by the Breathing Modes of Isolated Metal Nanowires. <i>Nano Letters</i> , 2015 , 15, 3964-70	11.5	30
95	Surface stress induced deflections of cantilever plates with applications to the atomic force microscope: V-shaped plates. <i>Journal of Applied Physics</i> , 2002 , 91, 9354-9361	2.5	30
94	Vibration of Nanoparticles in Viscous Fluids. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 8536-8544	3.8	28
93	Global modes and nonlinear analysis of inverted-flag flapping. <i>Journal of Fluid Mechanics</i> , 2018 , 857, 312-344	3.7	28
92	Effect of cantilever geometry on the optical lever sensitivities and thermal noise method of the atomic force microscope. <i>Review of Scientific Instruments</i> , 2014 , 85, 113702	1.7	27
91	Coupling of conservative and dissipative forces in frequency-modulation atomic force microscopy. <i>Physical Review B</i> , 2006 , 74,	3.3	27
90	Susceptibility of atomic force microscope cantilevers to lateral forces: Experimental verification. <i>Applied Physics Letters</i> , 2003 , 83, 3195-3197	3.4	27
89	Autonomous propulsion of nanorods trapped in an acoustic field. <i>Journal of Fluid Mechanics</i> , 2017 , 825, 29-48	3.7	26
88	Mass Spectrometry Using Nanomechanical Systems: Beyond the Point-Mass Approximation. <i>Nano Letters</i> , 2018 , 18, 1608-1614	11.5	25
87	Polycrystallinity of Lithographically Fabricated Plasmonic Nanostructures Dominates Their Acoustic Vibrational Damping. <i>Nano Letters</i> , 2018 , 18, 3494-3501	11.5	25
86	Accuracy of the lattice Boltzmann method for low-speed noncontinuum flows. <i>Physical Review E</i> , 2011 , 83, 045701	2.4	25
85	High accuracy numerical solutions of the Boltzmann Bhatnagar-Gross-Krook equation for steady and oscillatory Couette flows. <i>Physics of Fluids</i> , 2012 , 24, 032004	4.4	25
84	Interatomic force laws that evade dynamic measurement. <i>Nature Nanotechnology</i> , 2018 , 13, 1088-1091	28.7	25
83	Poisson's ratio of individual metal nanowires. <i>Nature Communications</i> , 2014 , 5, 4336	17.4	23
82	Electrical Double-Layer Interaction between Heterogeneously Charged Colloidal Particles: A Superposition Formulation. <i>Journal of Colloid and Interface Science</i> , 1998 , 201, 233-243	9.3	23
81	Electrical Double-Layer Interaction between Charged Particles near Surfaces and in Confined Geometries. <i>Journal of Colloid and Interface Science</i> , 1999 , 218, 423-432	9.3	23
80	Interpretation of frequency modulation atomic force microscopy in terms of fractional calculus. <i>Physical Review B</i> , 2004 , 70,	3.3	22
79	Lubrication forces in air and accommodation coefficient measured by a thermal damping method using an atomic force microscope. <i>Physical Review E</i> , 2010 , 81, 056305	2.4	20

78	Effect of surface stress on the stiffness of cantilever plates: Influence of cantilever geometry. <i>Applied Physics Letters</i> , 2009 , 95, 193505	3.4	20
77	Stability of slender inverted flags and rods in uniform steady flow. <i>Journal of Fluid Mechanics</i> , 2016 , 809, 873-894	3.7	20
76	Accurate formula for conversion of tunneling current in dynamic atomic force spectroscopy. <i>Applied Physics Letters</i> , 2010 , 97, 043502	3.4	19
75	Energy dissipation in microfluidic beam resonators: Dependence on mode number. <i>Journal of Applied Physics</i> , 2010 , 108, 114507	2.5	19
74	Lattice Boltzmann method for oscillatory Stokes flow with applications to micro- and nanodevices. <i>Physical Review E</i> , 2010 , 81, 036706	2.4	19
73	Spectral properties of microcantilevers in viscous fluid. <i>Physical Review E</i> , 2010 , 81, 046306	2.4	19
72	On the measurement of relaxation times of acoustic vibrations in metal nanowires. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 17687-17693	3.6	19
71	The dominant role of the solvent-water interface in water droplet templating of polymers. <i>Soft Matter</i> , 2013 , 9, 7960	3.6	18
70	Photoacoustic detection of gases using microcantilevers. <i>Journal of Applied Physics</i> , 2009 , 106, 114510	2.5	17
69	Strong vibrational coupling in room temperature plasmonic resonators. <i>Nature Communications</i> , 2019 , 10, 1527	17.4	16
68	High frequency oscillatory flows in a slightly rarefied gas according to the Boltzmann-BGK equation. <i>Journal of Fluid Mechanics</i> , 2013 , 729, 1-46	3.7	16
67	Flexural Resonant Frequencies of Thin Rectangular Cantilever Plates. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2008 , 75,	2.7	16
66	Taming Self-Organization Dynamics to Dramatically Control Porous Architectures. <i>ACS Nano</i> , 2016 , 10, 3087-92	16.7	15
65	Uncertainty in least-squares fits to the thermal noise spectra of nanomechanical resonators with applications to the atomic force microscope. <i>Review of Scientific Instruments</i> , 2014 , 85, 025104	1.7	15
64	When Can the Elastic Properties of Simple Liquids Be Probed Using High-Frequency Nanoparticle Vibrations?. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13347-13353	3.8	14
63	Linearized lattice Boltzmann method for micro- and nanoscale flow and heat transfer. <i>Physical Review E</i> , 2015 , 92, 013307	2.4	14
62	Note: calibration of atomic force microscope cantilevers using only their resonant frequency and quality factor. <i>Review of Scientific Instruments</i> , 2014 , 85, 116101	1.7	14
61	Dynamic similarity of oscillatory flows induced by nanomechanical resonators. <i>Physical Review Letters</i> , 2014 , 112, 015501	7.4	13

60	Effect of multiplicative noise on least-squares parameter estimation with applications to the atomic force microscope. <i>Review of Scientific Instruments</i> , 2012 , 83, 055106	1.7	13
59	Compressible viscous flows generated by oscillating flexible cylinders. <i>Physics of Fluids</i> , 2009 , 21, 013104	4.4	13
58	Lattice Boltzmann method for linear oscillatory noncontinuum flows. <i>Physical Review E</i> , 2014 , 89, 033305	4.4	12
57	Asymptotic analysis of the Boltzmann-BGK equation for oscillatory flows. <i>Journal of Fluid Mechanics</i> , 2012 , 708, 197-249	3.7	12
56	Sphere oscillating in a rarefied gas. <i>Journal of Fluid Mechanics</i> , 2016 , 794, 109-153	3.7	12
55	Large-scale parallelization of nanomechanical mass spectrometry with weakly-coupled resonators. <i>Nature Communications</i> , 2019 , 10, 3647	17.4	11
54	Energy dissipation in microfluidic beam resonators: effect of Poisson's ratio. <i>Physical Review E</i> , 2011 , 84, 026304	2.4	11
53	Distortion in the thermal noise spectrum and quality factor of nanomechanical devices due to finite frequency resolution with applications to the atomic force microscope. <i>Review of Scientific Instruments</i> , 2011 , 82, 095104	1.7	11
52	Buckling of a cantilever plate uniformly loaded in its plane with applications to surface stress and thermal loads. <i>Journal of Applied Physics</i> , 2013 , 113, 024501	2.5	10
51	Water bells formed on the underside of a horizontal plate. Part 1. Experimental investigation. <i>Journal of Fluid Mechanics</i> , 2010 , 649, 19-43	3.7	10
50	Water bells formed on the underside of a horizontal plate. Part 2. Theory. <i>Journal of Fluid Mechanics</i> , 2010 , 649, 45-68	3.7	10
49	Incipient plane-strain failure of a rectangular block under gravity. <i>International Journal of Mechanical Sciences</i> , 2001 , 43, 793-815	5.5	10
48	Acoustic Vibrations of Al Nanocrystals: Size, Shape, and Crystallinity Revealed by Single-Particle Transient Extinction Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 3924-3934	2.8	9
47	Wrinkling of transversely loaded spinning membranes. <i>International Journal of Solids and Structures</i> , 2018 , 139-140, 163-173	3.1	9
46	Induced flow due to blowing and suction flow control: an analysis of transpiration. <i>Journal of Fluid Mechanics</i> , 2012 , 690, 366-398	3.7	9
45	Viscoelasticity of liquid water investigated using molecular dynamics simulations. <i>Physical Review Fluids</i> , 2019 , 4,	2.8	9
44	Frequency-domain Monte Carlo method for linear oscillatory gas flows. <i>Journal of Computational Physics</i> , 2015 , 284, 351-366	4.1	8
43	Existence of micrometer-scale water droplets at solvent/air interfaces. <i>Langmuir</i> , 2012 , 28, 13218-23	4	7

42	Incipient failure of a circular cylinder under gravity. <i>International Journal of Mechanical Sciences</i> , 2002 , 44, 1779-1800	5.5	7
41	Method for analysis of complex refractive-index-profile fibers. <i>Optics Letters</i> , 1990 , 15, 105	3	7
40	. <i>IEEE Journal of Quantum Electronics</i> , 1990 , 26, 2013-2024	2	7
39	The Effect of Aspect Ratio and Angle of Attack on the Transition Regions of the Inverted Flag Instability 2014 ,		6
38	Measurement of the optical properties and shape of nanoparticles in solution using Couette flow. <i>ACS Nano</i> , 2008 , 2, 334-40	16.7	6
37	Analysis of arbitrarily perturbed circular profiles by implementation of integral-equation theory. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1990 , 7, 2094	1.8	6
36	Viscoelasticity of glycerol at ultra-high frequencies investigated via molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2016 , 144, 054502	3.9	6
35	Note: Improved calibration of atomic force microscope cantilevers using multiple reference cantilevers. <i>Review of Scientific Instruments</i> , 2015 , 86, 056106	1.7	5
34	Frequency-domain deviational Monte Carlo method for linear oscillatory gas flows. <i>Physics of Fluids</i> , 2015 , 27, 102002	4.4	5
33	Dissipation Imaging with Low Amplitude off-Resonance Atomic Force Microscopy. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 5325-5327	1.4	5
32	Dependence of the Far Field Effective Potential on Surface Inhomogeneities. <i>Journal of Colloid and Interface Science</i> , 1996 , 182, 516-525	9.3	5
31	Highly Spherical Nanoparticles Probe Gigahertz Viscoelastic Flows of Simple Liquids Without the No-Slip Condition. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4440-4446	6.4	5
30	Resonant frequencies of cantilevered sheets under various clamping configurations immersed in fluid. <i>Journal of Applied Physics</i> , 2016 , 120, 144504	2.5	5
29	Acoustic Vibrations and Energy Dissipation Mechanisms for Lithographically Fabricated Plasmonic Nanostructures Revealed by Single-Particle Transient Extinction Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 1621-1636	3.8	5
28	Mass measurement of graphene using quartz crystal microbalances. <i>Applied Physics Letters</i> , 2019 , 115, 053102	3.4	4
27	Effect of morphology on the large-amplitude flapping dynamics of an inverted flag in a uniform flow. <i>Journal of Fluid Mechanics</i> , 2019 , 874, 526-547	3.7	4
26	Scaling behavior for gravity induced flow of a yield stress material. <i>Journal of Rheology</i> , 2005 , 49, 105-112	4.1	4
25	. <i>IEEE Journal of Quantum Electronics</i> , 1991 , 27, 2159-2169	2	4

24	. <i>IEEE Journal of Quantum Electronics</i> , 1991 , 27, 976-984	2	4
23	Frequency Modulation Atomic Force Microscopy in Liquids 2008 , 315-350		4
22	Viscoelasticity Enhances Nanometer-Scale Slip in Gigahertz-Frequency Liquid Flows. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 3449-3455	6.4	4
21	Measurement of Navier Slip on Individual Nanoparticles in Liquid. <i>Nano Letters</i> , 2021 , 21, 4959-4965	11.5	4
20	Origin of spurious oscillations in lattice Boltzmann simulations of oscillatory noncontinuum gas flows. <i>Physical Review E</i> , 2019 , 100, 053317	2.4	4
19	Material characterisation of nanowires with intrinsic stress. <i>Nanotechnology</i> , 2017 , 28, 355706	3.4	3
18	On the maximum drag reduction due to added polymers in Poiseuille flow. <i>Journal of Fluid Mechanics</i> , 2010 , 659, 473-483	3.7	3
17	. <i>IEEE Journal of Quantum Electronics</i> , 1992 , 28, 1533-1538	2	3
16	Variational method enabling simplified solutions to the linearized Boltzmann equation for oscillatory gas flows. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	3
15	Flow generated by oscillatory uniform heating of a rarefied gas in a channel. <i>Journal of Fluid Mechanics</i> , 2016 , 800, 433-483	3.7	3
14	Large-Area Nanofabrication of Partially Embedded Nanostructures for Enhanced Plasmonic Hot-Carrier Extraction. <i>ACS Applied Nano Materials</i> , 2019 , 2, 1164-1169	5.6	3
13	Shear-induced buckling of a thin elastic disk undergoing spin-up. <i>International Journal of Solids and Structures</i> , 2019 , 166, 75-82	3.1	2
12	Frequency Response of Cantilever Beams Immersed in Viscous Fluids. <i>Advanced Micro & Nanosystems</i> , 2015 , 29-53		2
11	. <i>IEEE Journal of Quantum Electronics</i> , 1992 , 28, 194-204	2	2
10	Electrodynamic ratchet motor. <i>Physical Review E</i> , 2009 , 79, 030105	2.4	1
9	Acoustic flows in a slightly rarefied gas. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	1
8	Dynamics of an inverted cantilever plate at moderate angle of attack. <i>Journal of Fluid Mechanics</i> , 2021 , 909,	3.7	1
7	Solvent-Engineered Stress in Nanoscale Materials. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44183-44189	3.5	1

6	Inertial and viscous flywheel sensing of nanoparticles. <i>Nature Communications</i> , 2021 , 12, 5099	17.4	1
5	Blunted-Cone Heat Shields of Atmospheric Entry Vehicles. <i>AIAA Journal</i> , 2009 , 47, 1784-1787	2.1	0
4	The automation of robust interatomic-force measurements. <i>Review of Scientific Instruments</i> , 2020 , 91, 103702	1.7	0
3	Squeeze-Film Effect on Atomically Thin Resonators in the High-Pressure Limit. <i>Nano Letters</i> , 2021 , 21, 7617-7624	11.5	0
2	Modelling apical columnar epithelium mechanics from circumferential contractile fibres. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017 , 16, 1555-1568	3.8	
1	What is the oscillation amplitude of a vibrating cantilever?. <i>Review of Scientific Instruments</i> , 2019 , 90, 086103	1.7	