

Abdelhamid Maali

List of Publications by Citations

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

42
papers

4,550
citations

23
h-index

47
g-index

47
ext. papers

4,911
ext. citations

5
avg, IF

4.82
L-index

#	Paper	IF	Citations
42	Observing the Progressive Decoherence of the "Meter" in a Quantum Measurement. <i>Physical Review Letters</i> , 1996 , 77, 4887-4890	7.4	1278
41	Photothermal imaging of nanometer-sized metal particles among scatterers. <i>Science</i> , 2002 , 297, 1160-3	33.3	778
40	Quantum Rabi oscillation: A direct test of field quantization in a cavity. <i>Physical Review Letters</i> , 1996 , 76, 1800-1803	7.4	769
39	Ten Years of Single-Molecule Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 1-16	2.8	297
38	From Lamb shift to light shifts: Vacuum and subphoton cavity fields measured by atomic phase sensitive detection. <i>Physical Review Letters</i> , 1994 , 72, 3339-3342	7.4	208
37	Hydrodynamics of oscillating atomic force microscopy cantilevers in viscous fluids. <i>Journal of Applied Physics</i> , 2005 , 97, 074907	2.5	190
36	Quantum switches and nonlocal microwave fields. <i>Physical Review Letters</i> , 1993 , 71, 2360-2363	7.4	152
35	Fluorescent silver oligomeric clusters and colloidal particles. <i>Solid State Sciences</i> , 2005 , 7, 812-818	3.4	87
34	Measurement of the slip length of water flow on graphite surface. <i>Applied Physics Letters</i> , 2008 , 92, 053101	3.01	70
33	Oscillatory dissipation of a simple confined liquid. <i>Physical Review Letters</i> , 2006 , 96, 086105	7.4	68
32	Boundary slip study on hydrophilic, hydrophobic, and superhydrophobic surfaces with dynamic atomic force microscopy. <i>Langmuir</i> , 2009 , 25, 8117-21	4	62
31	Measurement of slip length on superhydrophobic surfaces. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012 , 370, 2304-20	3	57
30	Atomic force microscopy measurement of boundary slip on hydrophilic, hydrophobic, and superhydrophobic surfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2009 , 27, 754-760	2.9	49
29	Improved acoustic excitation of atomic force microscope cantilevers in liquids. <i>Applied Physics Letters</i> , 2006 , 88, 163504	3.4	47
28	Velocity profiles of water flowing past solid glass surfaces using fluorescent nanoparticles and molecules as velocity probes. <i>Physical Review Letters</i> , 2008 , 100, 214502	7.4	46
27	Nanorheology and boundary slip in confined liquids using atomic force microscopy. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 315201	1.8	36
26	Intrinsic fluorescence from individual silver nanoparticles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 17, 559-560	3	35

25	The Microcantilever: A Versatile Tool for Measuring the Rheological Properties of Complex Fluids. <i>Journal of Sensors</i> , 2012 , 2012, 1-9	2	34
24	Slip-length measurement of confined air flow using dynamic atomic force microscopy. <i>Physical Review E</i> , 2008 , 78, 027302	2.4	34
23	Hydrodynamic drag-force measurement and slip length on microstructured surfaces. <i>Physical Review E</i> , 2012 , 85, 066310	2.4	29
22	Coalescence and movement of nanobubbles studied with tapping mode AFM and tip-bubble interaction analysis. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 485004	1.8	27
21	Analytical description of the motion of an acoustic-driven atomic force microscope cantilever in liquid. <i>Applied Physics Letters</i> , 2007 , 90, 113512	3.4	27
20	Viscoelastic Drag Forces and Crossover from No-Slip to Slip Boundary Conditions for Flow near Air-Water Interfaces. <i>Physical Review Letters</i> , 2017 , 118, 084501	7.4	26
19	Hydrogenated and fluorinated surfactants derived from Tris(hydroxymethyl)-acrylamidomethane allow the purification of a highly active yeast F1-F0 ATP-synthase with an enhanced stability. <i>Journal of Bioenergetics and Biomembranes</i> , 2009 , 41, 349-60	3.7	18
18	Reduction of the cantilever hydrodynamic damping near a surface by ion-beam milling. <i>Journal of Applied Physics</i> , 2006 , 99, 024908	2.5	17
17	Nanobubbles and their role in slip and drag. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 184003	1.8	16
16	Evidence of the no-slip boundary condition of water flow between hydrophilic surfaces using atomic force microscopy. <i>Langmuir</i> , 2009 , 25, 12002-5	4	16
15	Non-linear optical response of single molecules. <i>Chemical Physics</i> , 1999 , 245, 121-132	2.3	14
14	Slip length measurement of gas flow. <i>Nanotechnology</i> , 2016 , 27, 374004	3.4	11
13	Imaging single metal nanoparticles in scattering media by photothermal interference contrast. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 17, 537-540	3	9
12	Direct Measurement of the Elastohydrodynamic Lift Force at the Nanoscale. <i>Physical Review Letters</i> , 2020 , 124, 054502	7.4	7
11	Delamination and Wrinkling of Flexible Conductive Polymer Thin Films. <i>Advanced Functional Materials</i> , 2021 , 31, 2009039	15.6	6
10	An experimental study of a schrödinger cat decoherence with atoms and cavities. <i>Journal of Modern Optics</i> , 1997 , 44, 2023-2032	1.1	5
9	Viscocapillary Response of Gas Bubbles Probed by Thermal Noise Atomic Force Measurement. <i>Langmuir</i> , 2018 , 34, 1371-1375	4	4
8	Rheology of polymer solutions using colloidal-probe atomic force microscopy. <i>Physical Review E</i> , 2013 , 87, 062601	2.4	4

7	Slip length measurement of confined air flow on three smooth surfaces. <i>Langmuir</i> , 2013 , 29, 4298-302	4	4
6	Maali and Cohen-Bouhacina Reply:. <i>Physical Review Letters</i> , 2006 , 97,	7.4	4
5	Precise damping and stiffness extraction in acoustic driven cantilever in liquid. <i>Journal of Applied Physics</i> , 2013 , 114, 144302	2.5	3
4	Enzymatic activity of immobilized yeast phosphoglycerate kinase. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 2449-55	11.8	1
3	Near-Field Probe of Thermal Fluctuations of a Hemispherical Bubble Surface. <i>Physical Review Letters</i> , 2021 , 126, 174503	7.4	1
2	AFM Imaging in Physiological Environment: From Biomolecules to Living Cells 2008 , 1379-1438		1
1	Dynamic AFM in Liquids: Viscous Damping and Applications to the Study of Confined Liquids. <i>Nanoscience and Technology</i> , 2009 , 149-164	0.6	0