Abdelhamid Maali

List of Publications by Year in Descending Order

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	Near-Field Probe of Thermal Fluctuations of a Hemispherical Bubble Surface. *Physical Review Letters*, **2021**, 126, 174503	7.4	1
41	Delamination and Wrinkling of Flexible Conductive Polymer Thin Films. *Advanced Functional Materials*, **2021**, 31, 2009039	15.6	6
40	Direct Measurement of the Elastohydrodynamic Lift Force at the Nanoscale. *Physical Review Letters* , **2020**, 124, 054502	7.4	7
39	Viscocapillary Response of Gas Bubbles Probed by Thermal Noise Atomic Force Measurement. *Langmuir*, **2018**, 34, 1371-1375	4	4
38	Viscoelastic Drag Forces and Crossover from No-Slip to Slip Boundary Conditions for Flow near Air-Water Interfaces. *Physical Review Letters*, **2017**, 118, 084501	7.4	26
37	Slip length measurement of gas flow. *Nanotechnology*, **2016**, 27, 374004	3.4	11
36	Precise damping and stiffness extraction in acoustic driven cantilever in liquid. *Journal of Applied Physics*, **2013**, 114, 144302	2.5	3
35	Rheology of polymer solutions using colloidal-probe atomic force microscopy. *Physical Review E*, **2013**, 87, 062601	2.4	4
34	Slip length measurement of confined air flow on three smooth surfaces. *Langmuir*, **2013**, 29, 4298-302	4	4
33	Nanobubbles and their role in slip and drag. *Journal of Physics Condensed Matter*, **2013**, 25, 184003	1.8	16
32	The Microcantilever: A Versatile Tool for Measuring the Rheological Properties of Complex Fluids. *Journal of Sensors*, **2012**, 2012, 1-9	2	34
31	Hydrodynamic drag-force measurement and slip length on microstructured surfaces. *Physical Review E*, **2012**, 85, 066310	2.4	29
30	Measurement of slip length on superhydrophobic surfaces. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2012**, 370, 2304-20	3	57
29	Atomic force microscopy measurement of boundary slip on hydrophilic, hydrophobic, and superhydrophobic surfaces. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2009**, 27, 754-760	2.9	49
28	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. *Journal of Bioenergetics and Biomembranes*, **2009**, 41, 349-60	3.7	18
27	Dynamic AFM in Liquids: Viscous Damping and Applications to the Study of Confined Liquids. *Nanoscience and Technology*, **2009**, 149-164	0.6	0
26	Evidence of the no-slip boundary condition of water flow between hydrophilic surfaces using atomic force microscopy. *Langmuir*, **2009**, 25, 12002-5	4	16

25	Boundary slip study on hydrophilic, hydrophobic, and superhydrophobic surfaces with dynamic atomic force microscopy. *Langmuir*, **2009**, 25, 8117-21	4	62
24	Nanorheology and boundary slip in confined liquids using atomic force microscopy. *Journal of Physics Condensed Matter*, **2008**, 20, 315201	1.8	36
23	Coalescence and movement of nanobubbles studied with tapping mode AFM and tip–bubble interaction analysis. *Journal of Physics Condensed Matter*, **2008**, 20, 485004	1.8	27
22	Measurement of the slip length of water flow on graphite surface. *Applied Physics Letters*, **2008**, 92, 053101	3.4	70
21	Slip-length measurement of confined air flow using dynamic atomic force microscopy. *Physical Review E*, **2008**, 78, 027302	2.4	34
20	Velocity profiles of water flowing past solid glass surfaces using fluorescent nanoparticles and molecules as velocity probes. *Physical Review Letters*, **2008**, 100, 214502	7.4	46
19	AFM Imaging in Physiological Environment: From Biomolecules to Living Cells **2008**, 1379-1438		1
18	Enzymatic activity of immobilized yeast phosphoglycerate kinase. *Biosensors and Bioelectronics*, **2007**, 22, 2449-55	11.8	1
17	Analytical description of the motion of an acoustic-driven atomic force microscope cantilever in liquid. *Applied Physics Letters*, **2007**, 90, 113512	3.4	27
16	Improved acoustic excitation of atomic force microscope cantilevers in liquids. *Applied Physics Letters*, **2006**, 88, 163504	3.4	47
15	Maali and Cohen-Bouhacina Reply:. *Physical Review Letters*, **2006**, 97,	7.4	4
14	Reduction of the cantilever hydrodynamic damping near a surface by ion-beam milling. *Journal of Applied Physics*, **2006**, 99, 024908	2.5	17
13	Oscillatory dissipation of a simple confined liquid. *Physical Review Letters*, **2006**, 96, 086105	7.4	68
12	Hydrodynamics of oscillating atomic force microscopy cantilevers in viscous fluids. *Journal of Applied Physics*, **2005**, 97, 074907	2.5	190
11	Fluorescent silver oligomeric clusters and colloidal particles. *Solid State Sciences*, **2005**, 7, 812-818	3.4	87
10	Imaging single metal nanoparticles in scattering media by photothermal interference contrast. *Physica E: Low-Dimensional Systems and Nanostructures*, **2003**, 17, 537-540	3	9
9	Intrinsic fluorescence from individual silver nanoparticles. *Physica E: Low-Dimensional Systems and Nanostructures*, **2003**, 17, 559-560	3	35
8	Photothermal imaging of nanometer-sized metal particles among scatterers. *Science*, **2002**, 297, 1160-3	33.3	778

7	Ten Years of Single-Molecule Spectroscopy. *Journal of Physical Chemistry A*, **2000**, 104, 1-16	2.8	297
6	Non-linear optical response of single molecules. *Chemical Physics*, **1999**, 245, 121-132	2.3	14
5	An experimental study of a schrdinger cat decoherence with atoms and cavities. *Journal of Modern Optics*, **1997**, 44, 2023-2032	1.1	5
4	Quantum Rabi oscillation: A direct test of field quantization in a cavity. *Physical Review Letters*, **1996**, 76, 1800-1803	7.4	769
3	Observing the Progressive Decoherence of the "Meter" in a Quantum Measurement. *Physical Review Letters*, **1996**, 77, 4887-4890	7.4	1278
2	From Lamb shift to light shifts: Vacuum and subphoton cavity fields measured by atomic phase sensitive detection. *Physical Review Letters*, **1994**, 72, 3339-3342	7.4	208
1	Quantum switches and nonlocal microwave fields. *Physical Review Letters*, **1993**, 71, 2360-2363	7.4	152