Daniel Kiracofe

List of Publications by Year
in descending order

11 papers	396 citations	933447 10 h-index	1281871 11 g-index
13 all docs	13 docs citations	13 times ranked	423 citing authors

#	Article	IF	Citations
1	On eigenmodes, stiffness, and sensitivity of atomic force microscope cantilevers in air versus liquids. Journal of Applied Physics, 2010, 107, .	2.5	75
2	High efficiency laser photothermal excitation of microcantilever vibrations in air and liquids. Review of Scientific Instruments, 2011, 82, 013702.	1.3	63
3	Calibration of higher eigenmode spring constants of atomic force microscope cantilevers. Nanotechnology, 2010, 21, 465502.	2.6	60
4	Multiple regimes of operation in bimodal AFM: understanding the energy of cantilever eigenmodes. Beilstein Journal of Nanotechnology, 2013, 4, 385-393.	2.8	45
5	Quantitative force and dissipation measurements in liquids using piezo-excited atomic force microscopy: a unifying theory. Nanotechnology, 2011, 22, 485502.	2.6	36
6	Resolving Structure and Mechanical Properties at the Nanoscale of Viruses with Frequency Modulation Atomic Force Microscopy. PLoS ONE, 2012, 7, e30204.	2.5	30
7	Gaining insight into the physics of dynamic atomic force microscopy in complex environments using the VEDA simulator. Review of Scientific Instruments, 2012, 83, 013702.	1.3	29
8	Microcantilever dynamics in liquid environment dynamic atomic force microscopy when using higher-order cantilever eigenmodes. Journal of Applied Physics, 2010, 108, .	2.5	23
9	Dynamic AFM on Viscoelastic Polymer Samples with Surface Forces. Macromolecules, 2018, 51, 9649-9661.	4.8	20
10	Nonlinear dynamics of the atomic force microscope at the liquid-solid interface. Physical Review B, 2012, 86, .	3.2	14
11	Nonlinear dynamics of atomic force microscope microcantilevers in liquid environments - a review. Nonlinear Theory and Its Applications IEICE, 2013, 4, 184-197.	0.6	1