Loren Picco

List of Publications by Year
in descending order

34	792	623734	501196
papers	citations	14	28
		h-index	g-index

34	34	34	1250
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Non-Destructive, Tuneable Method to Isolate Live Cells for High-Speed AFM Analysis. Microorganisms, 2021, 9, 680.	3.6	6
2	Sample preparation methods for optimal HS-AFM analysis: Duplex stainless steel. Ultramicroscopy, 2021, 222, 113210.	1.9	4
3	Digital Polymerase Chain Reaction Paired with High-Speed Atomic Force Microscopy for Quantitation and Length Analysis of DNA Length Polymorphisms. ACS Nano, 2020, 14, 15385-15393.	14.6	4
4	Bringing real-time traceability to high-speed atomic force microscopy. Measurement Science and Technology, 2020, 31, 074005.	2.6	6
5	Development of a facile fluorophosphonate-functionalised titanium surface for potential orthopaedic applications. Journal of Orthopaedic Translation, 2020, 23, 140-151.	3.9	5
6	Eulerâ€“Bernoulli theory accurately predicts atomic force microscope cantilever shape during non-equilibrium snap-to-contact motion. Nanotechnology, 2020, 31, 185702.	2.6	1
7	Imaging the Surface of a Polycrystalline Electrodeposited Cu Film in Real Time Using In Situ High-Speed AFM. Journal of the Electrochemical Society, 2020, 167, 162510.	2.9	3
8	FLT3 Internal Tandem Duplication Quantitation and Length Analysis By Digital PCR Paired with High-Speed AFM. Blood, 2020, 136, 21-22.	1.4	0
9	Development of fatigue testing system for in-situ observation of stainless steel 316 by HS-AFM & SEM. International Journal of Fatigue, 2019, 127, 1-9.	5.7	8
10	Production of phosphorene nanoribbons. Nature, 2019, 568, 216-220.	27.8	208
11	Development of Fatigue Testing System for in-situ Observation by AFM & SEM. MATEC Web of Conferences, 2019, 300, 14002.	0.2	0
12	A study of dynamic nanoscale corrosion initiation events using HS-AFM. Faraday Discussions, 2018, 210, 409-428.	3.2	22
13	Algal Viruses: The (Atomic) Shape of Things to Come. Viruses, 2018, 10, 490.	3.3	2
14	â€˜Hi-Fi AFMâ€™: high-speed contact mode atomic force microscopy with optical pickups. Measurement Science and Technology, 2018, 29, 105902.	2.6	7
15	A calibration method for the higher modes of a micro-mechanical cantilever. Applied Physics Letters, 2017, 110, .	3.3	5
16	In situ imaging of corrosion processes in nuclear fuel cladding. Corrosion Engineering Science and Technology, 2017, 52, 596-604.	1.4	13
17	DNA nanomapping using CRISPR-Cas9 as a programmable nanoparticle. Nature Communications, 2017, 8, 1665.	12.8	27
18	Single Crystal, Luminescent Carbon Nitride Nanosheets Formed by Spontaneous Dissolution. Nano Letters, 2017, 17, 5891-5896.	9.1	76

#	Article	IF	Citations
19	Ionic solutions of two-dimensional materials. Nature Chemistry, 2017, 9, 244-249.	13.6	68
20	Preparation of Stainless Steel Surfaces for Scanning Probe Microscopy. Microscopy Today, 2016, 24, 52-55.	0.3	13
21	Detection and photothermal actuation of microcantilever oscillations in air and liquid using a modified DVD optical pickup. Sensors and Actuators A: Physical, 2016, 248, 6-9.	4.1	7
22	High-speed atomic force microscopy for materials science. International Materials Reviews, 2016, 61, 473-494.	19.3	56
23	High-Speed Atomic Force Microscopy Revealing Contamination in DNA Purification Systems. Analytical Chemistry, 2016, 88, 2527-2532.	6.5	9
24	Conductiveâ€AFM Patterning of Organic Semiconductors. Small, 2015, 11, 5054-5058.	10.0	13
25	Characterisation of electrodeposited polycrystalline uranium dioxide thin films on nickel foil for industrial applications. Thin Solid Films, 2015, 597, 57-64.	1.8	16
26	Growth and characterization of uraniumâ€“zirconium alloy thin films for nuclear industry applications. Journal Physics D: Applied Physics, 2014, 47, 315301.	2.8	5
27	Error mapping of high-speed AFM systems. Measurement Science and Technology, 2013, 24, 025006.	2.6	20
28	Development of nanomanipulator using a high-speed atomic force microscope coupled with a haptic device. Ultramicroscopy, 2013, 133, 88-94.	1.9	13
29	Opportunities in Highâ€Speed Atomic Force Microscopy. Small, 2013, 9, 3201-3211.	10.0	39
30	Modelling oscillatory flexure modes of an atomic force microscope cantilever in contact mode whilst imaging at high speed. Nanotechnology, 2012, 23, 265702.	2.6	19
31	High-speed atomic force microscopy in slow motionâ€”understanding cantilever behaviour at high scan velocities. Nanotechnology, 2012, 23, 205704.	2.6	23
32	Mapping real-time images of high-speed AFM using multitouch control. Nanotechnology, 2009, 20, 434018.	2.6	17
33	High-speed AFM of human chromosomes in liquid. Nanotechnology, 2008, 19, 384018.	2.6	40
34	A new detection system for extremely small vertically mounted cantilevers. Nanotechnology, 2008, 19, 384002.	2.6	37