Loren Picco

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4195230/publications.pdf

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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	Production of phosphorene nanoribbons. Nature, 2019, 568, 216-220.	27.8	208
2	Single Crystal, Luminescent Carbon Nitride Nanosheets Formed by Spontaneous Dissolution. Nano Letters, 2017, 17, 5891-5896.	9.1	76
3	Ionic solutions of two-dimensional materials. Nature Chemistry, 2017, 9, 244-249.	13.6	68
4	High-speed atomic force microscopy for materials science. International Materials Reviews, 2016, 61, 473-494.	19.3	56
5	High-speed AFM of human chromosomes in liquid. Nanotechnology, 2008, 19, 384018.	2.6	40
6	Opportunities in Highâ€Speed Atomic Force Microscopy. Small, 2013, 9, 3201-3211.	10.0	39
7	A new detection system for extremely small vertically mounted cantilevers. Nanotechnology, 2008, 19, 384002.	2.6	37
8	DNA nanomapping using CRISPR-Cas9 as a programmable nanoparticle. Nature Communications, 2017, 8, 1665.	12.8	27
9	High-speed atomic force microscopy in slow motionâ€”understanding cantilever behaviour at high scan velocities. Nanotechnology, 2012, 23, 205704.	2.6	23
10	A study of dynamic nanoscale corrosion initiation events using HS-AFM. Faraday Discussions, 2018, 210, 409-428.	3.2	22
11	Error mapping of high-speed AFM systems. Measurement Science and Technology, 2013, 24, 025006.	2.6	20
12	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
13	Mapping real-time images of high-speed AFM using multitouch control. Nanotechnology, 2009, 20, 434018.	2.6	17
14	Characterisation of electrodeposited polycrystalline uranium dioxide thin films on nickel foil for industrial applications. Thin Solid Films, 2015, 597, 57-64.	1.8	16
15	Development of nanomanipulator using a high-speed atomic force microscope coupled with a haptic device. Ultramicroscopy, 2013, 133, 88-94.	1.9	13
16	Conductiveâ€AFM Patterning of Organic Semiconductors. Small, 2015, 11, 5054-5058.	10.0	13
17	Preparation of Stainless Steel Surfaces for Scanning Probe Microscopy. Microscopy Today, 2016, 24, 52-55.	0.3	13
18	In situ imaging of corrosion processes in nuclear fuel cladding. Corrosion Engineering Science and Technology, 2017, 52, 596-604.	1.4	13

#	Article	IF	Citations
19	High-Speed Atomic Force Microscopy Revealing Contamination in DNA Purification Systems. Analytical Chemistry, 2016, 88, 2527-2532.	6.5	9
20	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
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	â€˜Hi-Fi AFMâ€™: high-speed contact mode atomic force microscopy with optical pickups. Measurement Science and Technology, 2018, 29, 105902.	2.6	7
23	Bringing real-time traceability to high-speed atomic force microscopy. Measurement Science and Technology, 2020, 31, 074005.	2.6	6
24	A Non-Destructive, Tuneable Method to Isolate Live Cells for High-Speed AFM Analysis. Microorganisms, 2021, 9, 680.	3.6	6
25	Growth and characterization of uraniumâ€“zirconium alloy thin films for nuclear industry applications. Journal Physics D: Applied Physics, 2014, 47, 315301.	2.8	5
26	A calibration method for the higher modes of a micro-mechanical cantilever. Applied Physics Letters, 2017, 110, .	3.3	5
27	Development of a facile fluorophosphonate-functionalised titanium surface for potential orthopaedic applications. Journal of Orthopaedic Translation, 2020, 23, 140-151.	3.9	5
28	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
29	Sample preparation methods for optimal HS-AFM analysis: Duplex stainless steel. Ultramicroscopy, 2021, 222, 113210.	1.9	4
30	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
31	Algal Viruses: The (Atomic) Shape of Things to Come. Viruses, 2018, 10, 490.	3.3	2
32	Eulerâ€“Bernoulli theory accurately predicts atomic force microscope cantilever shape during non-equilibrium snap-to-contact motion. Nanotechnology, 2020, 31, 185702.	2.6	1
33	Development of Fatigue Testing System for in-situ Observation by AFM & SEM. MATEC Web of Conferences, 2019, 300, 14002.	0.2	0
34	FLT3 Internal Tandem Duplication Quantitation and Length Analysis By Digital PCR Paired with High-Speed AFM. Blood, 2020, 136, 21-22.	1.4	0