

Giovanni Longo

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

2,220
citations

257450

24
h-index

243625

44
g-index

72
all docs

72
docs citations

72
times ranked

3325
citing authors

#	ARTICLE	IF	CITATIONS
1	Multivariate analysis of mean Raman spectra of erythrocytes for a fast analysis of the biochemical signature of ageing. <i>Talanta</i> , 2021, 221, 121442.	5.5	4
2	Nanomotion Spectroscopy as a New Approach to Characterize Bacterial Virulence. <i>Microorganisms</i> , 2021, 9, 1545.	3.6	6
3	Environmental Control of Amyloid Polymorphism by Modulation of Hydrodynamic Stress. <i>ACS Nano</i> , 2021, 15, 944-953.	14.6	13
4	A perspective view on the nanomotion detection of living organisms and its features. <i>Journal of Molecular Recognition</i> , 2020, 33, e2849.	2.1	23
5	Metal-based micro and nanosized pollutant in marine organisms: What can we learn from a combined atomic force microscopy – scanning electron microscopy study. <i>Journal of Molecular Recognition</i> , 2020, 33, e2851.	2.1	3
6	A Review of the Effect of a Nanostructured Thin Film Formed by Titanium Carbide and Titanium Oxides Clustered around Carbon in Graphitic Form on Osseointegration. <i>Nanomaterials</i> , 2020, 10, 1233.	4.1	6
7	Nanostructured TiC Layer is Highly Suitable Surface for Adhesion, Proliferation and Spreading of Cells. <i>Condensed Matter</i> , 2020, 5, 29.	1.8	5
8	Effects of sedimentation, microgravity, hydrodynamic mixing and air–water interface on α -synuclein amyloid formation. <i>Chemical Science</i> , 2020, 11, 3687-3693.	7.4	18
9	Nanomotion detection based on atomic force microscopy cantilevers. <i>Cell Surface</i> , 2019, 5, 100021.	3.0	27
10	A new tool to determine the cellular metabolic landscape: nanotechnology to the study of Friedreich's ataxia. <i>Scientific Reports</i> , 2019, 9, 19282.	3.3	8
11	A Rapid Unraveling of the Activity and Antibiotic Susceptibility of Mycobacteria. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	3.2	23
12	Erythrocyte's aging in microgravity highlights how environmental stimuli shape metabolism and morphology. <i>Scientific Reports</i> , 2018, 8, 5277.	3.3	31
13	Modelling the pathogenesis of Myotonic Dystrophy type 1 cardiac phenotype through human iPSC-derived cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 118, 95-109.	1.9	21
14	The role of oxidative stress in Friedreich's ataxia. <i>FEBS Letters</i> , 2018, 592, 718-727.	2.8	76
15	Identification of Oxidative Stress in Red Blood Cells with Nanoscale Chemical Resolution by Infrared Nanospectroscopy. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2582.	4.1	46
16	FC_analysis: a tool for investigating atomic force microscopy maps of force curves. <i>BMC Bioinformatics</i> , 2018, 19, 258.	2.6	14
17	Methods for Atomic Force Microscopy of Biological and Living Specimens. <i>Methods in Molecular Biology</i> , 2018, 1814, 529-539.	0.9	8
18	AFM nano-mechanical study of the beating profile of hiPSC-derived cardiomyocytes beating bodies WT and DM1. <i>Journal of Molecular Recognition</i> , 2018, 31, e2725.	2.1	6

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19	Insights into the morphological pattern of erythrocytes' aging: Coupling quantitative AFM data to microcalorimetry and Raman spectroscopy. <i>Journal of Molecular Recognition</i> , 2018, 31, e2732.	2.1	15
20	Nanotools and molecular techniques to rapidly identify and fight bacterial infections. <i>Journal of Microbiological Methods</i> , 2017, 138, 72-81.	1.6	20
21	Nanomechanical sensor applied to blood culture pellets: a fast approach to determine the antibiotic susceptibility against agents of bloodstream infections. <i>Clinical Microbiology and Infection</i> , 2017, 23, 400-405.	6.0	54
22	Hyperplectonemes: A Higher Order Compact and Dynamic DNA Self-Organization. <i>Nano Letters</i> , 2017, 17, 1938-1948.	9.1	34
23	Amyloid single-cell cytotoxicity assays by nanomotion detection. <i>Cell Death Discovery</i> , 2017, 3, 17053.	4.7	20
24	Osseointegration is improved by coating titanium implants with a nanostructured thin film with titanium carbide and titanium oxides clustered around graphitic carbon. <i>Materials Science and Engineering C</i> , 2017, 70, 264-271.	7.3	39
25	Improving Osteoblast Response In Vitro by a Nanostructured Thin Film with Titanium Carbide and Titanium Oxides Clustered around Graphitic Carbon. <i>PLoS ONE</i> , 2016, 11, e0152566.	2.5	21
26	Direct-write nanoscale printing of nanogranular tunnelling strain sensors for sub-micrometre cantilevers. <i>Nature Communications</i> , 2016, 7, 12487.	12.8	40
27	Nanoscale studies link amyloid maturity with polyglutamine diseases onset. <i>Scientific Reports</i> , 2016, 6, 31155.	3.3	130
28	Detecting nanoscale vibrations as signature of life. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 378-381.	7.1	118
29	Infrared nanospectroscopy characterization of oligomeric and fibrillar aggregates during amyloid formation. <i>Nature Communications</i> , 2015, 6, 7831.	12.8	245
30	Localization of adhesins on the surface of a pathogenic bacterial envelope through atomic force microscopy. <i>Nanoscale</i> , 2015, 7, 17563-17572.	5.6	19
31	Investigation of resins suitable for the preparation of biological sample for 3-D electron microscopy. <i>Journal of Structural Biology</i> , 2015, 189, 135-146.	2.8	61
32	Graphitic carbon in a nanostructured titanium oxycarbide thin film to improve implant osseointegration. <i>Materials Science and Engineering C</i> , 2015, 46, 409-416.	7.3	14
33	Measuring Cytoskeleton and Cellular Membrane Mechanical Properties by Atomic Force Microscopy. <i>Methods in Molecular Biology</i> , 2015, 1232, 153-159.	0.9	6
34	Detected twice for good measure. <i>Nature Nanotechnology</i> , 2014, 9, 959-960.	31.5	8
35	Effects of antibacterial agents and drugs monitored by atomic force microscopy. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2014, 6, 230-244.	6.1	34
36	Real-Time Monitoring of Protein Conformational Changes Using a Nano-Mechanical Sensor. <i>PLoS ONE</i> , 2014, 9, e103674.	2.5	26

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37	Mechanical properties of biological specimens explored by atomic force microscopy. Journal Physics D: Applied Physics, 2013, 46, 133001.	2.8	113
38	Time-Lapse AFM Imaging of DNA Conformational Changes Induced by Daunorubicin. Nano Letters, 2013, 13, 5679-5684.	9.1	27
39	A universal fluid cell for the imaging of biological specimens in the atomic force microscope. Microscopy Research and Technique, 2013, 76, 357-363.	2.2	16
40	Rapid detection of bacterial resistance to antibiotics using AFM cantilevers as nanomechanical sensors. Nature Nanotechnology, 2013, 8, 522-526.	31.5	296
41	Antibiotic-induced modifications of the stiffness of bacterial membranes. Journal of Microbiological Methods, 2013, 93, 80-84.	1.6	46
42	Combination of fluorescence microscopy and nanomotion detection to characterize bacteria. Journal of Molecular Recognition, 2013, 26, 590-595.	2.1	34
43	Morphological characterization of innovative electroconductive polymers in early stages of growth. Surface and Coatings Technology, 2012, 207, 286-292.	4.8	13
44	Force volume and stiffness tomography investigation on the dynamics of stiff material under bacterial membranes. Journal of Molecular Recognition, 2012, 25, 278-284.	2.1	47
45	Stiffness tomography exploration of living and fixed macrophages. Journal of Molecular Recognition, 2012, 25, 241-246.	2.1	33
46	Scanning probe microscopy in material science and biology. Journal Physics D: Applied Physics, 2011, 44, 464008.	2.8	10
47	The how, when, and why of the aging signals appearing on the human erythrocyte membrane: an atomic force microscopy study of surface roughness. Nanomedicine: Nanotechnology, Biology, and Medicine, 2010, 6, 760-768.	3.3	68
48	Effect of titanium carbide coating by ion plating plasma-assisted deposition on osteoblast response: A chemical, morphological and gene expression investigation. Surface and Coatings Technology, 2010, 204, 2605-2612.	4.8	16
49	Optical super-resolution using higher harmonics and different acquisition modes in an aperture tapping SNOM. Physica Status Solidi (B): Basic Research, 2010, 247, 2056-2060.	1.5	3
50	An inverted/scanning near-field optical microscope for applications in materials science and biology. Physica Status Solidi (B): Basic Research, 2010, 247, 2051-2055.	1.5	7
51	AFM and SNOM characterization of ordinary chondrites: A contribution to solving the problem of asteroid reddening. Physica Status Solidi (B): Basic Research, 2010, 247, 2061-2066.	1.5	2
52	A multipurpose hybrid conventional/scanning near-field optical microscope for applications in materials science and biology. Measurement Science and Technology, 2010, 21, 045502.	2.6	4
53	The response of giant phospholipid vesicles to millimeter waves radiation. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 1497-1507.	2.6	26
54	AFM AND SNOM TECHNIQUES AT ISM: AN OVERVIEW. , 2009, , .		0

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55	Implementation of a bimorph-based aperture tapping-SNOM with an incubator to study the evolution of cultured living cells. <i>Journal of Microscopy</i> , 2008, 229, 433-439.	1.8	14
56	AFM for diagnosis of nanocrystallization of steels in hardening processes. <i>Journal of Microscopy</i> , 2008, 230, 218-223.	1.8	5
57	Pd layer on cube-textured substrates for MOD-TFA and PLD YBCO coated conductors. <i>Superconductor Science and Technology</i> , 2008, 21, 015003.	3.5	11
58	Different membrane modifications revealed by atomic force/lateral force microscopy after doping of human pancreatic cells with Cd, Zn, or Pb. <i>Microscopy Research and Technique</i> , 2007, 70, 912-917.	2.2	19
59	An AFM investigation of oligonucleotides anchored on unoxidized crystalline silicon surfaces. <i>New Biotechnology</i> , 2007, 24, 53-58.	2.7	4
60	Controlled loading of oligodeoxyribonucleotide monolayers onto unoxidized crystalline silicon; fluorescence-based determination of the surface coverage and of the hybridization efficiency; parallel imaging of the process by Atomic Force Microscopy. <i>Nucleic Acids Research</i> , 2006, 34, e32-e32.	14.5	30
61	An Alternative Tapping Scanning Near-Field Optical Microscope Setup Enabling the Study of Biological Systems in Liquid Environment. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 2333-2336.	1.5	8
62	AN AFM INVESTIGATION OF OLIGONUCLEOTIDES ANCHORED ON AN UNOXIDIZED CRYSTALLINE SILICON SURFACE. , 2006, , .		0
63	Detection of Nanostructured Metal in Meteorites: Implications for the Reddening of Asteroids. <i>Astrophysical Journal</i> , 2005, 634, L117-L120.	4.5	10
64	A novel tapping SNOM: Specifications and performances. <i>Physica Status Solidi (B): Basic Research</i> , 2005, 242, 3070-3074.	1.5	5
65	Study of ageing effects in aerogel. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 527, 319-328.	1.6	15
66	Infrared near-field microscopy with the Vanderbilt free electron laser: overview and perspectives. <i>Infrared Physics and Technology</i> , 2004, 45, 409-416.	2.9	13
67	Optical nanospectroscopy applications in material science. <i>Applied Surface Science</i> , 2004, 234, 374-386.	6.1	2
68	Carboxylic acid terminated monolayer formation on crystalline silicon and silicon nitride surfaces. A surface coverage determination with a fluorescent probe in solution Electronic Supplementary Information (ESI) available: analytical data of the new compounds and general information on the instruments used for their characterization. See http://www.rsc.org/suppdata/jm/b3/b312273e/ . <i>Journal of Materials Chemistry</i> , 2004, 14, 1461.	6.7	50
69	AFM and SNOM characterization of carboxylic acid terminated silicon and silicon nitride surfaces. <i>Surface Science</i> , 2003, 544, 51-57.	1.9	14
70	IR-SNOM on lithium fluoride films with regular arrays based on colour centres. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003, 0, 3075-3080.	0.8	5
71	CHARACTERISATION OF POLYANILINE CONDUCTIVE COMPOSITES. , 2001, , .		0