

# Etienne Dague

## List of Publications by Year in descending order

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96  
papers

3,837  
citations

87843

38  
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133188

59  
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all docs

99  
docs citations

99  
times ranked

4933  
citing authors

#	ARTICLE	IF	CITATIONS
1	Macromolecular crowding limits growth under pressure. <i>Nature Physics</i> , 2022, 18, 411-416.	6.5	29
2	Atomic force microscopy-single-molecule force spectroscopy unveils GPCR cell surface architecture. <i>Communications Biology</i> , 2022, 5, 221.	2.0	5
3	Pili and other surface proteins influence the structure and the nanomechanical properties of <i>Lactococcus lactis</i> biofilms. <i>Scientific Reports</i> , 2021, 11, 4846.	1.6	11
4	Automation of Bio-Atomic Force Microscope Measurements on Hundreds of <i>C. albicans</i> Cells. <i>Journal of Visualized Experiments</i> , 2021, , .	0.2	0
5	Nanobiomechanical behavior of Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> and Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> -NH <sub>2</sub> nanoparticles over HeLa cells interfaces. <i>Nanotechnology</i> , 2021, 32, 385702.	1.3	1
6	From the first touch to biofilm establishment by the human pathogen <i>Candida glabrata</i> : a genome-wide to nanoscale view. <i>Communications Biology</i> , 2021, 4, 886.	2.0	9
7	Probing the interactions between air bubbles and (bio)interfaces at the nanoscale using FluidFM technology. <i>Journal of Colloid and Interface Science</i> , 2021, 604, 785-797.	5.0	14
8	Elucidating bacterial adhesion to mucosal surface by an original AFM approach. <i>BMC Microbiology</i> , 2021, 21, 244.	1.3	3
9	The dual role of amyloid- $\beta$ -sheet sequences in the cell surface properties of FLO11-encoded flocculins in <i>Saccharomyces cerevisiae</i> . <i>ELife</i> , 2021, 10, .	2.8	8
10	Development of Polythiourethane/ZnO-Based Anti-Fouling Materials and Evaluation of the Adhesion of <i>Staphylococcus aureus</i> and <i>Candida glabrata</i> Using Single-Cell Force Spectroscopy. <i>Nanomaterials</i> , 2021, 11, 271.	1.9	12
11	Beyond the paradigm of nanomechanical measurements on cells using AFM: an automated methodology to rapidly analyse thousands of cells. <i>Nanoscale Horizons</i> , 2020, 5, 131-138.	4.1	10
12	Analysis of Homotypic Interactions of <i>Lactococcus lactis</i> Pili Using Single-Cell Force Spectroscopy. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 21411-21423.	4.0	7
13	Nanoscale Evidence Unravels Microalgae Flocculation Mechanism Induced by Chitosan. <i>ACS Applied Bio Materials</i> , 2020, 3, 8446-8459.	2.3	25
14	Differential homotypic and heterotypic interactions of antigen 43 (Ag43) variants in autotransporter-mediated bacterial autoaggregation. <i>Scientific Reports</i> , 2019, 9, 11100.	1.6	16
15	AFM dendritips functionalized with molecular probes specific to cell wall polysaccharides as a tool to investigate cell surface structure and organization. <i>Cell Surface</i> , 2019, 5, 100027.	1.5	6
16	Changes in nanomechanical properties and adhesion dynamics of algal cells during their growth. <i>Bioelectrochemistry</i> , 2019, 127, 154-162.	2.4	23
17	Structural evidence for a new elaborate 3D-organization of the cardiomyocyte lateral membrane in adult mammalian cardiac tissues. <i>Cardiovascular Research</i> , 2019, 115, 1078-1091.	1.8	7
18	Cell biology of microbes and pharmacology of antimicrobial drugs explored by Atomic Force Microscopy. <i>Seminars in Cell and Developmental Biology</i> , 2018, 73, 165-176.	2.3	31

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19	Nanoscale structural mapping as a measure of maturation in the murine frontal cortex. <i>Brain Structure and Function</i> , 2018, 223, 255-265.	1.2	3
20	Electrical discharges in water induce sporesâ€™ DNA damage. <i>PLoS ONE</i> , 2018, 13, e0201448.	1.1	6
21	A conserved fungal hub protein involved in adhesion and drug resistance in the human pathogen <i>Candida albicans</i> . <i>Cell Surface</i> , 2018, 4, 10-19.	1.5	6
22	The Role of Glycans in Bacterial Adhesion to Mucosal Surfaces: How Can Single-Molecule Techniques Advance Our Understanding?. <i>Microorganisms</i> , 2018, 6, 39.	1.6	34
23	Biophysical properties of cardiomyocyte surface explored by multiparametric AFM. <i>Journal of Structural Biology</i> , 2017, 198, 28-37.	1.3	13
24	Importance of endogenous extracellular matrix in biomechanical properties of human skin model. <i>Biofabrication</i> , 2017, 9, 025017.	3.7	17
25	Atomic Force Microscopy to Explore Electroporation Effects on Cells. , 2017, , 1325-1337.		0
26	Bacteria transfer by deformation through microfiltration membrane. <i>Journal of Membrane Science</i> , 2017, 523, 446-455.	4.1	56
27	Methods of Micropatterning and Manipulation of Cells for Biomedical Applications. <i>Micromachines</i> , 2017, 8, 347.	1.4	55
28	Integration of Biochemical, Biophysical and Transcriptomics Data for Investigating the Structural and Nanomechanical Properties of the Yeast Cell Wall. <i>Frontiers in Microbiology</i> , 2017, 8, 1806.	1.5	17
29	High speed indentation measures by FV, QI and QNM introduce a new understanding of bionanomechanical experiments. <i>Micron</i> , 2016, 85, 8-14.	1.1	69
30	Evidence for a Role for the Plasma Membrane in the Nanomechanical Properties of the Cell Wall as Revealed by an Atomic Force Microscopy Study of the Response of <i>Saccharomyces cerevisiae</i> to Ethanol Stress. <i>Applied and Environmental Microbiology</i> , 2016, 82, 4789-4801.	1.4	45
31	Elasticity, Adhesion, and Tether Extrusion on Breast Cancer Cells Provide a Signature of Their Invasive Potential. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 27426-27431.	4.0	55
32	Cell wall as a target for bacteria inactivation by pulsed electric fields. <i>Scientific Reports</i> , 2016, 6, 19778.	1.6	146
33	Atomic Force Microscopy to Explore Electroporation Effects on Cells. , 2016, , 1-13.		0
34	Mapping HAâ€tagged protein at the surface of living cells by atomic force microscopy. <i>Journal of Molecular Recognition</i> , 2015, 28, 1-9.	1.1	16
35	Unravelling of a mechanism of resistance to colistin in <i>Klebsiella pneumoniae</i> using atomic force microscopy. <i>Journal of Antimicrobial Chemotherapy</i> , 2015, 70, 2261-2270.	1.3	51
36	Generation of living cell arrays for atomic force microscopy studies. <i>Nature Protocols</i> , 2015, 10, 199-204.	5.5	55

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37	Cell Wall Remodeling Enzymes Modulate Fungal Cell Wall Elasticity and Osmotic Stress Resistance. <i>MBio</i> , 2015, 6, e00986.	1.8	169
38	Effects of the strain background and autolysis process on the composition and biophysical properties of the cell wall from two different industrial yeasts. <i>FEMS Yeast Research</i> , 2015, 15, .	1.1	25
39	Multiparametric imaging of adhesive nanodomains at the surface of <i>Candida albicans</i> by atomic force microscopy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 57-65.	1.7	45
40	Imaging Living Yeast Cells and Quantifying Their Biophysical Properties by Atomic Force Microscopy. <i>Fungal Biology</i> , 2015, , 125-141.	0.3	3
41	Targeted Changes of the Cell Wall Proteome Influence <i>Candida albicans</i> Ability to Form Single- and Multi-strain Biofilms. <i>PLoS Pathogens</i> , 2014, 10, e1004542.	2.1	54
42	Directed Assembly of Living <i>Pseudomonas aeruginosa</i> Bacteria on PEI Patterns Generated by Nanoxerography for Statistical AFM Bioexperiments. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 21230-21236.	4.0	15
43	Uncovering by Atomic Force Microscopy of an original circular structure at the yeast cell surface in response to heat shock. <i>BMC Biology</i> , 2014, 12, 6.	1.7	43
44	Atomic Force Microscopy and pharmacology: From microbiology to cancerology. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 1028-1050.	1.1	70
45	Stress disrupts intestinal mucus barrier in rats via mucin <i>O</i> -glycosylation shift: prevention by a probiotic treatment. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 307, G420-G429.	1.6	109
46	A combined chemical and enzymatic method to determine quantitatively the polysaccharide components in the cell wall of yeasts. <i>FEMS Yeast Research</i> , 2014, 14, 933-947.	1.1	47
47	Atomic force and electron microscopic-based study of sarcolemmal surface of living cardiomyocytes unveils unexpected mitochondrial shift in heart failure. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 74, 162-172.	0.9	27
48	AFM sensing cortical actin cytoskeleton destabilization during plasma membrane electropermeabilization. <i>Cytoskeleton</i> , 2014, 71, 587-594.	1.0	19
49	Use of atomic force microscopy (AFM) to explore cell wall properties and response to stress in the yeast <i>Saccharomyces cerevisiae</i> . <i>Current Genetics</i> , 2013, 59, 187-196.	0.8	40
50	Imaging living cells surface and quantifying its properties at high resolution using AFM in QIâ„¢ mode. <i>Micron</i> , 2013, 48, 26-33.	1.1	166
51	Destabilization induced by electropermeabilization analyzed by atomic force microscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 2223-2229.	1.4	40
52	Deletion of the $\beta$ -(1,3)-Glucan Synthase Genes Induces a Restructuring of the Conidial Cell Wall Responsible for the Avirulence of <i>Aspergillus fumigatus</i> . <i>PLoS Pathogens</i> , 2013, 9, e1003716.	2.1	110
53	Nanoscale Effects of Caspofungin against Two Yeast Species, <i>Saccharomyces cerevisiae</i> and <i>Candida albicans</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 3498-3506.	1.4	71
54	The Terpolymer Produced by <i>Azotobacter Chroococcum</i> 7B: Effect of Surface Properties on Cell Attachment. <i>PLoS ONE</i> , 2013, 8, e57200.	1.1	32

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55	Nano-Encapsulation of Arsenic Trioxide Enhances Efficacy against Murine Lymphoma Model while Minimizing Its Impact on Ovarian Reserve In Vitro and In Vivo. PLoS ONE, 2013, 8, e58491.	1.1	63
56	Unraveling the Role of Surface Mucus-Binding Protein and Pili in Muco-Adhesion of Lactococcus lactis. PLoS ONE, 2013, 8, e79850.	1.1	45
57	Enhancing the Strength of an Optical Trap by Truncation. PLoS ONE, 2013, 8, e61310.	1.1	3
58	In-Situ Determination of the Mechanical Properties of Gliding or Non-Motile Bacteria by Atomic Force Microscopy under Physiological Conditions without Immobilization. PLoS ONE, 2013, 8, e61663.	1.1	26
59	Live-Cell Dynamic Sensing of Cd <sup>2+</sup> with a FRET-Based Indicator. PLoS ONE, 2013, 8, e65853.	1.1	35
60	Real-time investigation of the muco-adhesive properties of <i>Lactococcus lactis</i> using a quartz crystal microbalance with dissipation monitoring. Biofouling, 2012, 28, 479-490.	0.8	7
61	Nanoscale analysis of the effects of antibiotics and CX1 on a <i>Pseudomonas aeruginosa</i> multidrug-resistant strain. Scientific Reports, 2012, 2, 575.	1.6	66
62	Nanomechanics of Yeast Surfaces Revealed by AFM. Nanoscience and Technology, 2012, , 171-193.	1.5	0
63	Rapid and Serial Quantification of Adhesion Forces of Yeast and Mammalian Cells. PLoS ONE, 2012, 7, e52712.	1.1	106
64	Ephrin-B1 Is a Novel Specific Component of the Lateral Membrane of the Cardiomyocyte and Is Essential for the Stability of Cardiac Tissue Architecture Cohesion. Circulation Research, 2012, 110, 688-700.	2.0	30
65	Nanoscale effects of antibiotics on <i>P. aeruginosa</i> . Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 12-16.	1.7	50
66	Probing single molecule interactions by AFM using bio-functionalized dendritips. Sensors and Actuators B: Chemical, 2012, 168, 436-441.	4.0	30
67	Measuring Kinetic Dissociation/Association Constants Between <i>Lactococcus lactis</i> Bacteria and Mucins Using Living Cell Probes. Biophysical Journal, 2011, 101, 2843-2853.	0.2	52
68	Assembly of live micro-organisms on microstructured PDMS stamps by convective/capillary deposition for AFM bio-experiments. Nanotechnology, 2011, 22, 395102.	1.3	59
69	An atomic force microscopy analysis of yeast mutants defective in cell wall architecture. Yeast, 2010, 27, 673-684.	0.8	69
70	R148: Le microscope À force atomique : un outil en biologie. Bulletin Du Cancer, 2010, 97, S74-S75.	0.6	0
71	Probing In Vitro Interactions between <i>Lactococcus lactis</i> and Mucins Using AFM. Langmuir, 2010, 26, 11010-11017.	1.6	38
72	Nanopatterning molecularly imprinted polymers by soft lithography: a hierarchical approach. Lab on A Chip, 2010, 10, 1316.	3.1	35

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73	Towards a Nanoscale View of Microbial Surfaces Using the Atomic Force Microscope. , 2010, , 583-598.		0
74	Imaging Chemical Groups and Molecular Recognition Sites on Live Cells Using AFM. , 2010, , 463-478.		0
75	Nanoscale imaging of microbial pathogens using atomic force microscopy. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2009, 1, 168-180.	3.3	19
76	Porous silicon membrane, with an integrated aqueous supply, for two chamber AFM. Microelectronic Engineering, 2009, 86, 1393-1395.	1.1	6
77	Nanomechanical Properties of Dead or Alive Single-Patterned Bacteria. Langmuir, 2009, 25, 5731-5736.	1.6	98
78	Imaging Chemical Groups and Molecular Recognition Sites on Live Cells Using AFM. Nanoscience and Technology, 2009, , 33-48.	1.5	2
79	Organization of the mycobacterial cell wall: a nanoscale view. Pflugers Archiv European Journal of Physiology, 2008, 456, 117-125.	1.3	105
80	Nanostructure and nanomechanics of live <i>Phaeodactylum tricornutum</i> morphotypes. Environmental Microbiology, 2008, 10, 1344-1356.	1.8	111
81	High-Resolution Cell Surface Dynamics of Germinating <i>Aspergillus fumigatus</i> Conidia. Biophysical Journal, 2008, 94, 656-660.	0.2	163
82	Adhesion of <i>Campylobacter jejuni</i> and <i>Mycobacterium avium</i> onto polyethylene terephthalate (PET) used for bottled waters. Water Research, 2008, 42, 4751-4760.	5.3	16
83	Combined Use of Atomic Force Microscopy, X-ray Photoelectron Spectroscopy, and Secondary Ion Mass Spectrometry for Cell Surface Analysis. Langmuir, 2008, 24, 2955-2959.	1.6	40
84	Combining Convective/Capillary Deposition and AFM Oxidation Lithography for Close-Packed Directed Assembly of Colloids. Langmuir, 2008, 24, 13254-13257.	1.6	10
85	Towards a Nanoscale View of Microbial Surfaces Using the Atomic Force Microscope. , 2008, , 111-126.		0
86	Metallization Process for Polydimethylsiloxane (PDMS) Rubber. Materials Research Society Symposia Proceedings, 2007, 1009, 1.	0.1	5
87	Direct Measurement of Hydrophobic Forces on Cell Surfaces Using AFM. Langmuir, 2007, 23, 11977-11979.	1.6	156
88	Chemical Force Microscopy of Single Live Cells. Nano Letters, 2007, 7, 3026-3030.	4.5	150
89	The stress response protein Hsp12p increases the flexibility of the yeast <i>Saccharomyces cerevisiae</i> cell wall. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2007, 1774, 131-137.	1.1	45
90	Towards a nanoscale view of fungal surfaces. Yeast, 2007, 24, 229-237.	0.8	26

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91	Probing the modifications of polystyrene surface properties after incubation with the <i>Shewanella putrefaciens</i> bacteria at two pH values (4, 10) by atomic force microscopy. <i>Surface and Interface Analysis</i> , 2007, 39, 648-652.	0.8	1
92	Nanobiology. <i>Nanoscale Research Letters</i> , 2007, 2, 365-372.	3.1	4
93	Probing Surface Structures of <i>Shewanella</i> spp. by Microelectrophoresis. <i>Biophysical Journal</i> , 2006, 90, 2612-2621.	0.2	48
94	Multiscale dynamics of the cell envelope of <i>Shewanella putrefaciens</i> as a response to pH change. <i>Colloids and Surfaces B: Biointerfaces</i> , 2006, 52, 108-116.	2.5	41
95	Surface Structure and Nanomechanical Properties of <i>Shewanella putrefaciens</i> Bacteria at Two pH values (4 and 10) Determined by Atomic Force Microscopy. <i>Journal of Bacteriology</i> , 2005, 187, 3864-3868.	1.0	116
96	Development and Use of a Monoclonal Antibody Specific for the <i>Candida albicans</i> Cell-Surface Protein Hwp1. <i>Frontiers in Cellular and Infection Microbiology</i> , 0, 12, .	1.8	1