

Francois B Amblard

List of Publications by Year in descending order

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41
papers

2,653
citations

331670

21
h-index

302126

39
g-index

45
all docs

45
docs citations

45
times ranked

3496
citing authors

#	ARTICLE	IF	CITATIONS
1	Subdiffusion and Anomalous Local Viscoelasticity in Actin Networks. <i>Physical Review Letters</i> , 1996, 77, 4470-4473.	7.8	419
2	Distinct T cell dynamics in lymph nodes during the induction of tolerance and immunity. <i>Nature Immunology</i> , 2004, 5, 1235-1242.	14.5	361
3	Interplay of RhoA and mechanical forces in collective cell migration driven by leader cells. <i>Nature Cell Biology</i> , 2014, 16, 217-223.	10.3	305
4	A magnetic manipulator for studying local rheology and micromechanical properties of biological systems. <i>Review of Scientific Instruments</i> , 1996, 67, 818-827.	1.3	158
5	Endocytosis is required for E-cadherin redistribution at mature <i>adherens</i> junctions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 7010-7015.	7.1	153
6	Combined scanning optical coherence and two-photon-excited fluorescence microscopy. <i>Optics Letters</i> , 1999, 24, 969.	3.3	145
7	Tracer Studies on F-Actin Fluctuations. <i>Physical Review Letters</i> , 2002, 89, 258101.	7.8	143
8	Orientation and Polarity in Collectively Migrating Cell Structures: Statics and Dynamics. <i>Biophysical Journal</i> , 2011, 100, 2566-2575.	0.5	111
9	Molecular analysis of microscopic ezrin dynamics by two-photon FRAP. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 12813-12818.	7.1	101
10	Dynamic instability of the intracellular pressure drives bleb-based motility. <i>Journal of Cell Science</i> , 2010, 123, 3884-3892.	2.0	100
11	Motor-Driven Dynamics in Actin-Myosin Networks. <i>Physical Review Letters</i> , 2001, 88, 018101.	7.8	84
12	Dynamical organization of the cytoskeletal cortex probed by micropipette aspiration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15415-15420.	7.1	69
13	Myosin II and the Gal-GalNAc lectin play a crucial role in tissue invasion by <i>Entamoeba histolytica</i> . <i>Cellular Microbiology</i> , 2004, 7, 19-27.	2.1	68
14	A Two-Photon FRAP Analysis of the Cytoskeleton Dynamics in the Microvilli of Intestinal Cells. <i>Biophysical Journal</i> , 2005, 88, 1467-1478.	0.5	53
15	Surface-Induced Polymerization of Actin. <i>Biophysical Journal</i> , 1999, 76, 1580-1590.	0.5	43
16	Substrate curvature affects the shape, orientation, and polarization of renal epithelial cells. <i>Acta Biomaterialia</i> , 2018, 77, 311-321.	8.3	42
17	Regulation of T helper-B lymphocyte adhesion through CD4-HLA class II interaction. <i>European Journal of Immunology</i> , 1990, 20, 637-644.	2.9	40
18	Crystallization of Fluorescent Quantum Dots within a Three-Dimensional Bio-Organic Template of Actin Filaments and Lipid Membranes. <i>Nano Letters</i> , 2011, 11, 5443-5448.	9.1	32

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19	New Insights into the Regulation of E-cadherin Distribution by Endocytosis. International Review of Cell and Molecular Biology, 2012, 295, 63-108.	3.2	32
20	Spatially distributed two-photon excitation fluorescence in scattering media: Experiments and time-resolved Monte Carlo simulations. Optics Communications, 2007, 272, 269-278.	2.1	30
21	Mechanosensitive Adaptation of E-Cadherin Turnover across adherens Junctions. PLoS ONE, 2015, 10, e0128281.	2.5	30
22	Statistical Analysis of Sets of Random Walks: How to Resolve Their Generating Mechanism. Bulletin of Mathematical Biology, 2007, 69, 2467-2492.	1.9	24
23	A low-cost, label-free DNA detection method in lab-on-chip format based on electrohydrodynamic instabilities, with application to long-range PCR. Lab on A Chip, 2012, 12, 4738.	6.0	15
24	Mutations in the D strand of the human CD4 V1 domain affect CD4 interactions with the human immunodeficiency virus envelope glycoprotein gp120 and HLA class II antigens similarly.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 6858-6862.	7.1	13
25	Adaptive architecture and mechanoresponse of epithelial cells on a torus. Biomaterials, 2021, 265, 120420.	11.4	12
26	New chamber for flow cytometric analysis over an extended range of stream velocity and application to cell adhesion measurements. Cytometry, 1992, 13, 15-22.	1.8	10
27	Engineering small tubes with changes in diameter for the study of kidney cell organization. Biomicrofluidics, 2018, 12, 024114.	2.4	10
28	Amblard et al. Reply:. Physical Review Letters, 1998, 81, 1135-1135.	7.8	7
29	Polycystins and intercellular mechanotransduction: A precise dosage of polycystin 2 is necessary for alpha-actinin reinforcement of junctions upon mechanical stimulation. Experimental Cell Research, 2016, 348, 23-35.	2.6	7
30	Super-resolution provided by the arbitrarily strong superlinearity of the blackbody radiation. Nature Communications, 2019, 10, 5761.	12.8	6
31	How to better focus waves by considering symmetry and information loss. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6554-6559.	7.1	5
32	Microtopographies control the development of basal protrusions in epithelial sheets. Biointerphases, 2018, 13, 041003.	1.6	4
33	Detectivity optimization to measure ultraweak light fluxes using an EM-CCD as binary photon counter array. Scientific Reports, 2021, 11, 3530.	3.3	4
34	Stochastic light concentration from 3D to 2D reveals ultraweak chemi- and bioluminescence. Scientific Reports, 2021, 11, 10050.	3.3	4
35	A role for Dynlt3 in melanosome movement, distribution, acidity and transfer. Communications Biology, 2021, 4, 423.	4.4	3
36	Heterogeneity is not always a source of noise: Stochastic gene expression in regulatory heterozygote. Physical Review E, 2021, 104, 044401.	2.1	2

#	ARTICLE	IF	CITATIONS
37	Random dynamic interferometer: cavity amplified speckle spectroscopy using a highly symmetric coherent field created inside a closed Lambertian optical cavity. , 2019, , .		2
38	Deep line-temporal focusing with high axial resolution and a large field-of-view using intracavity control and incoherent pulse shaping. Optics Letters, 2018, 43, 4919.	3.3	2
39	Two-photon FRAP experiments and simulations to study the dynamics of cytoskeletal proteins. , 2004, , .		0
40	Protein Dynamics in Living Cells. Imaging & Microscopy, 2006, 8, 24-26.	0.1	0
41	Spontaneous Cell Luminescence and Oxidative Metabolism. Biophysical Journal, 2020, 118, 133a.	0.5	0