

Francois B Amblard

List of Publications by Year in descending order

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Version: 2024-02-01

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	Adaptive architecture and mechanoresponse of epithelial cells on a torus. <i>Biomaterials</i> , 2021, 265, 120420.	11.4	12
2	Detectivity optimization to measure ultraweak light fluxes using an EM-CCD as binary photon counter array. <i>Scientific Reports</i> , 2021, 11, 3530.	3.3	4
3	A role for Dynlt3 in melanosome movement, distribution, acidity and transfer. <i>Communications Biology</i> , 2021, 4, 423.	4.4	3
4	Stochastic light concentration from 3D to 2D reveals ultraweak chemi- and bioluminescence. <i>Scientific Reports</i> , 2021, 11, 10050.	3.3	4
5	Heterogeneity is not always a source of noise: Stochastic gene expression in regulatory heterozygote. <i>Physical Review E</i> , 2021, 104, 044401.	2.1	2
6	Spontaneous Cell Luminescence and Oxidative Metabolism. <i>Biophysical Journal</i> , 2020, 118, 133a.	0.5	0
7	Super-resolution provided by the arbitrarily strong superlinearity of the blackbody radiation. <i>Nature Communications</i> , 2019, 10, 5761.	12.8	6
8	Random dynamic interferometer: cavity amplified speckle spectroscopy using a highly symmetric coherent field created inside a closed Lambertian optical cavity. , 2019, , .		2
9	Engineering small tubes with changes in diameter for the study of kidney cell organization. <i>Biomicrofluidics</i> , 2018, 12, 024114.	2.4	10
10	Substrate curvature affects the shape, orientation, and polarization of renal epithelial cells. <i>Acta Biomaterialia</i> , 2018, 77, 311-321.	8.3	42
11	Microtopographies control the development of basal protrusions in epithelial sheets. <i>Biointerphases</i> , 2018, 13, 041003.	1.6	4
12	How to better focus waves by considering symmetry and information loss. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6554-6559.	7.1	5
13	Deep line-temporal focusing with high axial resolution and a large field-of-view using intracavity control and incoherent pulse shaping. <i>Optics Letters</i> , 2018, 43, 4919.	3.3	2
14	Polycystins and intercellular mechanotransduction: A precise dosage of polycystin 2 is necessary for alpha-actinin reinforcement of junctions upon mechanical stimulation. <i>Experimental Cell Research</i> , 2016, 348, 23-35.	2.6	7
15	Mechanosensitive Adaptation of E-Cadherin Turnover across adherens Junctions. <i>PLoS ONE</i> , 2015, 10, e0128281.	2.5	30
16	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
17	New Insights into the Regulation of E-cadherin Distribution by Endocytosis. <i>International Review of Cell and Molecular Biology</i> , 2012, 295, 63-108.	3.2	32
18	A low-cost, label-free DNA detection method in lab-on-chip format based on electrohydrodynamic instabilities, with application to long-range PCR. <i>Lab on A Chip</i> , 2012, 12, 4738.	6.0	15

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19	Orientation and Polarity in Collectively Migrating Cell Structures: Statics and Dynamics. Biophysical Journal, 2011, 100, 2566-2575.	0.5	111
20	Crystallization of Fluorescent Quantum Dots within a Three-Dimensional Bio-Organic Template of Actin Filaments and Lipid Membranes. Nano Letters, 2011, 11, 5443-5448.	9.1	32
21	Dynamic instability of the intracellular pressure drives bleb-based motility. Journal of Cell Science, 2010, 123, 3884-3892.	2.0	100
22	Dynamical organization of the cytoskeletal cortex probed by micropipette aspiration. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15415-15420.	7.1	69
23	Endocytosis is required for E-cadherin redistribution at mature <i>adherens</i> junctions. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7010-7015.	7.1	153
24	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
25	Statistical Analysis of Sets of Random Walks: How to Resolve Their Generating Mechanism. Bulletin of Mathematical Biology, 2007, 69, 2467-2492.	1.9	24
26	Protein Dynamics in Living Cells. Imaging & Microscopy, 2006, 8, 24-26.	0.1	0
27	A Two-Photon FRAP Analysis of the Cytoskeleton Dynamics in the Microvilli of Intestinal Cells. Biophysical Journal, 2005, 88, 1467-1478.	0.5	53
28	Myosin II and the Gal-GalNAc lectin play a crucial role in tissue invasion by Entamoeba histolytica. Cellular Microbiology, 2004, 7, 19-27.	2.1	68
29	Distinct T cell dynamics in lymph nodes during the induction of tolerance and immunity. Nature Immunology, 2004, 5, 1235-1242.	14.5	361
30	Two-photon FRAP experiments and simulations to study the dynamics of cytoskeletal proteins. , 2004, , .		0
31	Molecular analysis of microscopic ezrin dynamics by two-photon FRAP. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12813-12818.	7.1	101
32	Tracer Studies on F-Actin Fluctuations. Physical Review Letters, 2002, 89, 258101.	7.8	143
33	Motor-Driven Dynamics in Actin-Myosin Networks. Physical Review Letters, 2001, 88, 018101.	7.8	84
34	Surface-Induced Polymerization of Actin. Biophysical Journal, 1999, 76, 1580-1590.	0.5	43
35	Combined scanning optical coherence and two-photon-excited fluorescence microscopy. Optics Letters, 1999, 24, 969.	3.3	145
36	Amblard et al. Reply:. Physical Review Letters, 1998, 81, 1135-1135.	7.8	7

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37	Subdiffusion and Anomalous Local Viscoelasticity in Actin Networks. Physical Review Letters, 1996, 77, 4470-4473.	7.8	419
38	A magnetic manipulator for studying local rheology and micromechanical properties of biological systems. Review of Scientific Instruments, 1996, 67, 818-827.	1.3	158
39	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
40	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
41	Regulation of T helper-B lymphocyte adhesion through CD4-HLA class II interaction. European Journal of Immunology, 1990, 20, 637-644.	2.9	40