Romain Gautier

List of Publications by Year
in descending order

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22 papers	3,288 citations	393982 19 h-index	676716 22 g-index
25 all docs	25 docs citations	25 times ranked	4799 citing authors

#	Article	IF	Citations
1	HELIQUEST: a web server to screen sequences with specific Î±-helical properties. Bioinformatics, 2008, 24, 2101-2102.	1.8	928
2	A general amphipathic Î±-helical motif for sensing membrane curvature. Nature Structural and Molecular Biology, 2007, 14, 138-146.	3.6	526
3	Polyunsaturated phospholipids facilitate membrane deformation and fission by endocytic proteins. Science, 2014, 345, 693-697.	6.0	291
4	A sub-nanometre view of how membrane curvature and composition modulate lipid packing and protein recruitment. Nature Communications, 2014, 5, 4916.	5.8	230
5	The Ubiquitous Distribution of Late Embryogenesis Abundant Proteins across Cell Compartments in Arabidopsis Offers Tailored Protection against Abiotic Stress. Plant Cell, 2014, 26, 3148-3166.	3.1	179
6	Amphipathic Lipid Packing Sensor Motifs: Probing Bilayer Defects with Hydrophobic Residues. Biophysical Journal, 2013, 104, 575-584.	0.2	171
7	Conical Lipids in Flat Bilayers Induce Packing Defects Similar to that Induced by Positive Curvature. Biophysical Journal, 2013, 104, 585-593.	0.2	149
8	A Hidden Markov Model Derived Structural Alphabet for Proteins. Journal of Molecular Biology, 2004, 339, 591-605.	2.0	137
9	Acyl chain asymmetry and polyunsaturation of brain phospholipids facilitate membrane vesiculation without leakage. ELife, 2018, 7, .	2.8	111
10	Interdigitation between Triglycerides and Lipids Modulates Surface Properties of Lipid Droplets. Biophysical Journal, 2017, 112, 1417-1430.	0.2	102
11	Kinetic Studies of the Arf Activator Arno on Model Membranes in the Presence of Arf Effectors Suggest Control by a Positive Feedback Loop. Journal of Biological Chemistry, 2011, 286, 3873-3883.	1.6	70
12	Kritâ€ƒ1 interactions with microtubules and membranes are regulated by Rap1 and integrin cytoplasmic domain associated proteinâ€1. FEBS Journal, 2007, 274, 5518-5532.	2.2	68
13	PackMem: A Versatile Tool to Compute and Visualize Interfacial Packing Defects in Lipid Bilayers. Biophysical Journal, 2018, 115, 436-444.	0.2	57
14	A filter at the entrance of the Golgi that selects vesicles according to size and bulk lipid composition. ELife, 2016, 5, .	2.8	57
15	Methyl-branched lipids promote the membrane adsorption of Î±-synuclein by enhancing shallow lipid-packing defects. Physical Chemistry Chemical Physics, 2015, 17, 15589-15597.	1.3	42
16	Amphipathic-Lipid-Packing-Sensor interactions with lipids assessed by atomistic molecular dynamics. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 2119-2127.	1.4	35
17	An electrostatic switching mechanism to control the lipid transfer activity of Osh6p. Nature Communications, 2019, 10, 3926.	5.8	32
18	Nanoscale architecture of a VAP-A-OSBP tethering complex at membrane contact sites. Nature Communications, 2021, 12, 3459.	5.8	29

#	Article	IF	Citations
19	The transbilayer distribution of polyunsaturated phospholipids determines their facilitating effect on membrane deformation. Soft Matter, 2020, 16, 1722-1730.	1.2	27
20	Molecular and cellular dissection of the oxysterol-binding protein cycle through a fluorescent inhibitor. Journal of Biological Chemistry, 2020, 295, 4277-4288.	1.6	24
21	A comprehensive library of fluorescent constructs of SARSâ€CoVâ€2 proteins and their initial characterisation in different cell types. Biology of the Cell, 2021, 113, 311-328.	0.7	17
22	Critical assessment of side-chain conformational space sampling procedures designed for quantifying the effect of side-chain environment. Journal of Computational Chemistry, 2003, 24, 1950-1961.	1.5	4