Fabrice Homble

List of Publications by Year
in descending order

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58 papers	2,035 citations	304701 22 h-index	243610 44 g-index
60 all docs	60 docs citations	60 times ranked	2093 citing authors

#	Article	IF	Citations
1	The Open State Selectivity of the Bean Seed VDAC Depends on Stigmasterol and Ion Concentration. International Journal of Molecular Sciences, 2021, 22, 3034.	4.1	7
2	APOL1 C-Terminal Variants May Trigger Kidney Disease through Interference with APOL3 Control of Actomyosin. Cell Reports, 2020, 30, 3821-3836.e13.	6.4	50
3	Improvement of Diabetes Symptoms and Complications by an Aqueous Extract ofLinum usitatissimum(L.) Seeds in Alloxan-Induced Diabetic Mice. Journal of Medicinal Food, 2020, 23, 1077-1082.	1.5	10
4	Plant VDAC Permeability: Molecular Basis and Role in Oxidative Stress. Biological and Medical Physics Series, 2017, , 161-183.	0.4	1
5	The mitochondrial VDAC of bean seeds recruits phosphatidylethanolamine lipids for its proper functioning. Biochimica Et Biophysica Acta - Bioenergetics, 2017, 1858, 786-794.	1.0	21
6	Towards understanding of plant mitochondrial VDAC proteins: an overview of bean (Phaseolus) VDAC proteins. AIMS Biophysics, 2016, 4, 43-62.	0.6	4
7	Molecular Origin of Ion Selectivity in Phaseolus Coccineus Mitochondrial VDAC. Biophysical Journal, 2015, 108, 311a-312a.	0.5	0
8	Dual Mechanism of Ion Permeation through VDAC Revealed with Inorganic Phosphate Ions and Phosphate Metabolites. PLoS ONE, 2015, 10, e0121746.	2.5	20
9	VCA1008: An Anion-Selective Porin of Vibrio Cholerae. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 680-687.	2.6	1
10	Origin of ion selectivity in Phaseolus coccineus mitochondrial VDAC. Mitochondrion, 2014, 19, 206-213.	3.4	18
11	Plant VDAC Selectivity and Voltage-Dependence are Uncoupled. Biophysical Journal, 2014, 106, 791a.	0.5	2
12	Mechanism of Trypanosoma brucei gambiense resistance to human serum. Nature, 2013, 501, 430-434.	27.8	150
13	Molecular origin of VDAC selectivity towards inorganic ions: A combined molecular and Brownian dynamics study. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 1284-1292.	2.6	18
14	Plant VDAC: Facts and speculations. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1486-1501.	2.6	73
15	Characterization of a porin channel in the endosymbiont of the trypanosomatid protozoan Crithidia deanei. Microbiology (United Kingdom), 2011, 157, 2818-2830.	1.8	7
16	Ntann12 annexin expression is induced by auxin in tobacco roots. Journal of Experimental Botany, 2011, 62, 4055-4065.	4.8	30
17	Concentration Dependent Ion Selectivity in VDAC: A Molecular Dynamics Simulation Study. PLoS ONE, 2011, 6, e27994.	2.5	28
18	Gastric ATPase phosphorylation/dephosphorylation monitored by new FTIR-based BIAâ€“ATR biosensors. Spectroscopy, 2010, 24, 257-260.	0.8	6

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19	Modulation of Plant Mitochondrial VDAC by Phytosterols. Biophysical Journal, 2010, 99, 2097-2106.	0.5	55
20	Variation of the Lateral Mobility of Transmembrane Peptides with Hydrophobic Mismatch. Journal of Physical Chemistry B, 2010, 114, 3559-3566.	2.6	34
21	Ligandâ€“receptor interactions in complex media: A new type of biosensors for the detection of coagulation factor VIII. Biosensors and Bioelectronics, 2009, 24, 1831-1836.	10.1	17
22	Surface functionalization of germanium ATR devices for use in FTIR-biosensors. Journal of Colloid and Interface Science, 2009, 332, 408-415.	9.4	45
23	Emergence of symmetry breaking in fucoid zygotes. Trends in Plant Science, 2007, 12, 253-259.	8.8	8
24	Energy-independent translocation of cell-penetrating peptides occurs without formation of pores. A biophysical study with pep-1. Molecular Membrane Biology, 2007, 24, 282-293.	2.0	49
25	Biochemical Interaction Analysis on ATR Devices:Â A Wet Chemistry Approach for Surface Functionalization. Langmuir, 2007, 23, 949-955.	3.5	35
26	Parity-Breaking Bifurcation and Global Oscillation in Patterns of Ion Channels. Physical Review Letters, 2006, 96, 218101.	7.8	7
27	Cotransport-Induced Instability of Membrane Voltage in Tip-Growing Cells. Physical Review Letters, 2005, 95, 208105.	7.8	5
28	Apolipoprotein L-I Promotes Trypanosome Lysis by Forming Pores in Lysosomal Membranes. Science, 2005, 309, 469-472.	12.6	290
29	Pattern formation of stationary transcellular ionic currents in Fucus. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 10243-10248.	7.1	31
30	Regulation of the anion channel of the chloroplast envelope from spinach. Journal of Bioenergetics and Biomembranes, 2003, 35, 221-229.	2.3	6
31	Sequence analysis, transcriptional and posttranscriptional regulation of the rice vdac family. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2003, 1625, 43-51.	2.4	55
32	Expression of the rice vdac isoform2: histochemical localization and expression level. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2002, 1579, 133-141.	2.4	12
33	Lentil seed aquaporins form a hetero-oligomer which is phosphorylated by a Mg2+-dependent and Ca2+-regulated kinase. Biochemical Journal, 2000, 352, 183.	3.7	10
34	Purification and Characterization of Two Voltage-Dependent Anion Channel Isoforms from Plant Seeds. Plant Physiology, 2000, 124, 1181-1190.	4.8	33
35	Structure and Orientation of Two Voltage-dependent Anion-selective Channel Isoforms. Journal of Biological Chemistry, 2000, 275, 40992-40999.	3.4	44
36	Characterization of a cDNA encoding a rice mitochondrial voltage-dependent anion channel and its gene expression studied upon plant development and osmotic stress11OSVDAC1 accession number: Y18104.. Biochimica Et Biophysica Acta - Biomembranes, 2000, 1463, 470-476.	2.6	21

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37	Yersinia enterocolitica type III secretion-translocation system: channel formation by secreted Yops. EMBO Journal, 1999, 18, 6793-6799.	7.8	127
38	Passive anion transport through the chloroplast inner envelope membrane measured by osmotic swelling of intact chloroplasts. Biochimica Et Biophysica Acta - Biomembranes, 1999, 1416, 361-369.	2.6	11
39	Channel or channel-like activity associated with pore-forming proteins or peptides?. Molecular Microbiology, 1998, 27, 1261-1263.	2.5	12
40	Lipid membrane binding of NK-lysin. FEBS Letters, 1998, 425, 341-344.	2.8	57
41	The YopB protein of Yersinia pseudotuberculosis is essential for the translocation of Yop effector proteins across the target cell plasma membrane and displays a contact-dependent membrane disrupting activity.. EMBO Journal, 1996, 15, 5812-5823.	7.8	349
42	Mechanism of Proton Permeation through Chloroplast Lipid Membranes. Plant Physiology, 1996, 112, 759-766.	4.8	24
43	Membrane Transport and Oscillations in Plants. , 1996, , 125-138.		3
44	A Voltage-dependent Porin-like Channel in the Inner Envelope Membrane of Plant Chloroplasts. Journal of Biological Chemistry, 1995, 270, 9947-9952.	3.4	19
45	Permeability and electrical properties of planar lipid membranes from thylakoid lipids. Biophysical Journal, 1994, 66, 1404-1414.	0.5	41
46	Coupling of water and potassium ions in K+ channels of the tonoplast of Chara. Biophysical Journal, 1992, 63, 996-999.	0.5	23
47	Quantitative Analysis of Single K+ Channels in the Tonoplast of Chara corallina: Selectivity and TEA Blockade. Journal of Plant Physiology, 1991, 137, 729-733.	3.5	9
48	Correlation between the Banding Pattern and the Cell Wall Composition in Chara corallina: A Fourier Transform Infra-red Study. Journal of Plant Physiology, 1990, 135, 686-691.	3.5	10
49	Analysis of the diffusion theory of negative capacitance: the role of K+ and the unstirred layer thickness. Journal of Theoretical Biology, 1988, 131, 183-197.	1.7	2
50	A fast and high-current voltage clamp device for biophysical investigations. Journal of Physics E: Scientific Instruments, 1988, 21, 1100-1102.	0.7	1
51	Voltage-Dependent K+-Channel in Protoplasmic Droplets of Chara corallina. Plant Physiology, 1987, 83, 53-57.	4.8	37
52	A Tight-Seal Whole Cell Study of the Voltage-Dependent Gating Mechanism of K⁺-Channels of Protoplasmic Droplets of Chara corallina. Plant Physiology, 1987, 84, 433-437.	4.8	16
53	Further analysis of spontaneous membrane potential activity and the hyperpolarizing response to parathyroid hormone in osteoblastlike cells. Journal of Cellular Physiology, 1987, 130, 344-351.	4.1	45
54	Membrane impedance of internodal cells of Chara corallina obtained by analysis of low level transients. Bioelectrochemistry, 1987, 17, 131-139.	1.0	2

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55	Effect of dinitrophenol on membrane potential, membrane resistance and chlorophyll fluorescence of Chara corallina internodal cells at various pH values. Bioelectrochemistry, 1987, 17, 165-174.	1.0	4
56	Membrane Operational Impedance Spectra in Chara corallina Estimated by Laplace Transforms Analysis. Plant Physiology, 1986, 81, 919-921.	4.8	4
57	Effect of Sodium, Potassium, Calcium, Magnesium and Tetraethylammonium on the Transient Voltage Response to a Galvanostatic Step and of the Temperature on the Steady Membrane Conductance ofChara corallina: a Further Evidence for the Involvement of Potassium Channels in the Fast Time Variant Conductance. Journal of Experimental Botany, 1985, 36, 1603-1611.	4.8	11
58	Pseudo-Inductive Behaviour of the Membrane Potential ofChara corallinaunder Galvanostatic Conditions. Journal of Experimental Botany, 1984, 35, 1309-1322.	4.8	25