francois Bouteau

List of Publications by Year
in descending order

64 papers	1,374 citations	331670 21 h-index	377865 34 g-index
64 all docs	64 docs citations	64 times ranked	1525 citing authors

#	ARTICLE	IF	CITATIONS
1	Evidences of biological control capacities of Streptomyces spp. against Sclerotium rolfsii responsible for damping-off disease in sugar beet (Beta vulgaris L.). World Journal of Microbiology and Biotechnology, 2007, 23, 1503-1509.	3.6	129
2	Plasma Membrane Depolarization Induced by Abscisic Acid in Arabidopsis Suspension Cells Involves Reduction of Proton Pumping in Addition to Anion Channel Activation, Which Are Both Ca2+ Dependent. Plant Physiology, 2004, 135, 231-243.	4.8	94
3	Anion channel activity is necessary to induce ethylene synthesis and programmed cell death in response to oxalic acid. Journal of Experimental Botany, 2008, 59, 3121-3129.	4.8	58
4	The Indolic Compound Hypaphorine Produced by Ectomycorrhizal Fungus Interferes with Auxin Action and Evokes Early Responses in Nonhost Arabidopsis thaliana. Molecular Plant-Microbe Interactions, 2002, 15, 932-938.	2.6	56
5	Discovery of oxidative burst in the field of plant immunity. Plant Signaling and Behavior, 2008, 3, 153-155.	2.4	47
6	Increased Anion Channel Activity Is an Unavoidable Event in Ozone-Induced Programmed Cell Death. PLoS ONE, 2010, 5, e13373.	2.5	46
7	Deciphering early events involved in hyperosmotic stress-induced programmed cell death in tobacco BY-2 cells. Journal of Experimental Botany, 2014, 65, 1361-1375.	4.8	44
8	Harpin, a hypersensitive response elicitor from Erwinia amylovora , regulates ion channel activities in Arabidopsis thaliana suspension cells. FEBS Letters, 2001, 497, 82-84.	2.8	43
9	Acetylated 1,3â€diaminopropane antagonizes abscisic acidâ€mediated stomatal closing in <scp>A</scp>rabidopsis. Plant Journal, 2014, 79, 322-333.	5.7	43
10	Postâ€transcriptional regulation of GORK channels by superoxide anion contributes to increases in outwardâ€rectifying K + currents. New Phytologist, 2013, 198, 1039-1048.	7.3	42
11	The HrpNea Harpin from Erwinia amylovora Triggers Differential Responses on the Nonhost Arabidopsis thaliana Cells and on the Host Apple Cells. Molecular Plant-Microbe Interactions, 2007, 20, 94-100.	2.6	41
12	Pharmacological properties of slow anion currents in intact guard cells of Arabidopsis . Application of the discontinuous single-electrode voltage-clamp to different species. Pflugers Archiv European Journal of Physiology, 1998, 436, 920-927.	2.8	38
13	A Putative Role for Fusaric Acid in Biocontrol of the Parasitic Angiosperm Orobanche ramosa. Molecular Plant-Microbe Interactions, 2006, 19, 550-556.	2.6	37
14	Root phonotropism: Early signalling events following sound perception in Arabidopsis roots. Plant Science, 2017, 264, 9-15.	3.6	37
15	Competitive antagonism between IAA and indole alkaloid hypaphorine must contribute to regulate ontogenesis. Physiologia Plantarum, 2005, 123, 120-129.	5.2	35
16	Ion currents involved in early Nod factor response in Medicago sativa root hairs: a discontinuous single-electrode voltage-clamp study. Plant Journal, 2000, 22, 9-17.	5.7	33
17	Crosstalk between intracellular and extracellular salicylic acid signaling events leading to long-distance spread of signals. Plant Cell Reports, 2013, 32, 1125-1138.	5.6	29
18	Cryptogein-Induced Anion Effluxes. Plant Signaling and Behavior, 2007, 2, 86-95.	2.4	27

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19	Toxic and signalling effects of oxalic acid. Plant Signaling and Behavior, 2008, 3, 746-748.	2.4	24
20	Comparison of NaCl-induced programmed cell death in the obligate halophyte Cakile maritima and the glycophyte Arabidospis thaliana. Plant Science, 2016, 247, 49-59.	3.6	23
21	Antagonistic action of harpin proteins: HrpWea from Erwinia amylovora suppresses HrpNea-induced cell death in Arabidopsis thaliana. Journal of Cell Science, 2007, 120, 3271-3278.	2.0	21
22	Cakile maritima, a promising model for halophyte studies and a putative cash crop for saline agriculture. Advances in Agronomy, 2019, 155, 45-78.	5.2	21
23	Intracellular Ca2+stores could participate to abscisic acid-induced depolarization and stomatal closure inArabidopsis thaliana. Plant Signaling and Behavior, 2009, 4, 830-835.	2.4	20
24	An easy, simple inexpensive test for the specific detection of Pectobacterium carotovorum subsp. carotovorum based on sequence analysis of the pmrA gene. BMC Microbiology, 2013, 13, 176.	3.3	20
25	HIV-1 gp160 decreases the K+voltage-gated current from Jurkat E6.1 T cells by up-phosphorylation. FEBS Letters, 1999, 443, 187-191.	2.8	19
26	A role for oxalic acid generation in ozoneâ€induced signallization in Arabidopis cells. Plant, Cell and Environment, 2013, 36, 569-578.	5.7	19
27	Effect of desiccation on potassium and anion currents from young root hairs: Implication on tip growth. Physiologia Plantarum, 2001, 113, 79-84.	5.2	18
28	Ion channels of intact young root hairs from Medicago sativa. Plant Physiology and Biochemistry, 1999, 37, 889-898.	5.8	17
29	Inhibition of the Calcium Release-activated Calcium (CRAC) Current in Jurkat T Cells by the HIV-1 Envelope Protein gp160. Journal of Biological Chemistry, 2002, 277, 6044-6050.	3.4	17
30	A CFTR chloride channel activator prevents HrpNea-induced cell death in Arabidopsis thaliana suspension cells. Plant Physiology and Biochemistry, 2005, 43, 567-572.	5.8	17
31	Methanol induces cytosolic calcium variations, membrane depolarization and ethylene production in arabidopsis and tobacco. Annals of Botany, 2018, 122, 849-860.	2.9	16
32	Peroxyacetyl nitrate-induced oxidative and calcium signaling events leading to cell death in ozone-sensitive tobacco cell-line. Plant Signaling and Behavior, 2012, 7, 113-120.	2.4	15
33	Early events induced by the toxin deoxynivalenol lead to programmed cell death in Nicotiana tabacum cells. Plant Science, 2015, 238, 148-157.	3.6	15
34	Activation of plasma membrane H+-ATPases participates in dormancy alleviation in sunflower seeds. Plant Science, 2019, 280, 408-415.	3.6	15
35	Metabolism regulation during salt exposure in the halophyte Cakile maritima. Environmental and Experimental Botany, 2020, 177, 104075.	4.2	15
36	Time dependent K+ currents through plasmalemma of laticifer protoplasts from Hevea brasiliensis. Physiologia Plantarum, 1996, 98, 97-104.	5.2	12

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37	Deciphering the dual effect of lipopolysaccharides from plant pathogenicPectobacterium. Plant Signaling and Behavior, 2015, 10, e1000160.	2.4	12
38	Use of Liquefied Dimethyl Ether for the Extraction of Proteins from Vegetable Tissues. Solvent Extraction Research and Development, 2016, 23, 127-135.	0.4	12
39	Cellular mechanisms to survive salt in the halophyte Cakile maritima. Plant Science, 2018, 272, 173-178.	3.6	12
40	Harpins and ion channels modulations. Plant Signaling and Behavior, 2008, 3, 314-316.	2.4	11
41	Finding and defining the natural automata acting in living plants: Toward the synthetic biology for robotics and informatics in vivo. Communicative and Integrative Biology, 2012, 5, 519-526.	1.4	11
42	Prevention of Copper-Induced Calcium Influx and Cell Death by Prion-Derived Peptide in Suspension-Cultured Tobacco Cells. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2009, 64, 411-417.	1.4	10
43	Protection of tobacco cells from oxidative copper toxicity by catalytically active metal-binding DNA oligomers. Journal of Experimental Botany, 2014, 65, 1391-1402.	4.8	10
44	Batch Extraction of Oil from Rice Bran with Liquefied Low Temperature Dimethyl Ether. Solvent Extraction Research and Development, 2016, 23, 87-99.	0.4	10
45	Time dependent K+ currents through plasmalemma of laticifer protoplasts from Hevea brasiliensis. Physiologia Plantarum, 1996, 98, 97-104.	5.2	9
46	Arabidopsis thaliana Cells: A Model to Evaluate the Virulence of Pectobacterium carotovorum. Molecular Plant-Microbe Interactions, 2010, 23, 139-143.	2.6	9
47	Transient outward K+ currents across the plasma membrane of laticifer from Hevea brasiliensis. FEBS Letters, 1999, 458, 185-187.	2.8	6
48	Molecular typing of Pectobacterium carotovorum isolated from potato tuber soft rot in Morocco. Annals of Microbiology, 2012, 62, 1411-1417.	2.6	6
49	Our sisters the plants? notes from phylogenetics and botany on plant kinship blindness. Plant Signaling and Behavior, 2021, 16, 2004769.	2.4	6
50	Two different signaling pathways for thaxtomin A-induced cell death in Arabidopsis and tobacco BY2. Plant Signaling and Behavior, 2009, 4, 142-144.	2.4	5
51	Signaling Role of Salicylic Acid in Abiotic Stress Responses in Plants. , 2013, , 249-275.		5
52	Enhanced elevations of hypo-osmotic shock-induced cytosolic and nucleic calcium concentrations in tobacco cells by pretreatment with dimethyl sulfoxide. Bioscience, Biotechnology and Biochemistry, 2019, 83, 318-321.	1.3	5
53	Early Cellular Responses Induced by Sedimentary Calcite-Processed Particles in Bright Yellow 2 Tobacco Cultured Cells. International Journal of Molecular Sciences, 2020, 21, 4279.	4.1	5
54	Salicylic Acid-Induced Local and Long-Distance Signaling Models in Plants. Signaling and Communication in Plants, 2013, , 23-52.	0.7	5

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55	Ozone-induced caspase-like activities are dependent on early ion channel regulations and ROS generation inArabidopsis thalianacells. Plant Signaling and Behavior, 2013, 8, e25170.	2.4	4
56	Zinc-Dependent Protection of Tobacco and Rice Cells From Aluminum-Induced Superoxide-Mediated Cytotoxicity. Frontiers in Plant Science, 2015, 6, 1079.	3.6	4
57	Production and removal of superoxide anion radical by artificial metalloenzymes and redox-active metals. Communicative and Integrative Biology, 2015, 8, e1000710.	1.4	4
58	A study of the electrical polarization ofSepia officinalisyolk envelope, a role for Na⁺/K⁺-ATPases in osmoregulation?. Communicative and Integrative Biology, 2013, 6, e26035.	1.4	3
59	Ion Transport in Plant Cell Shrinkage During Death. Frontiers in Cell and Developmental Biology, 2020, 8, 566606.	3.7	3
60	Impact of Repetitive Salt Shocks on Seedlings of the Halophyte <I>Cakile maritima</I>. Environmental Control in Biology, 2016, 54, 23-30.	0.7	3
61	Could FaRP-Like Peptides Participate in Regulation of Hyperosmotic Stress Responses in Plants?. Frontiers in Endocrinology, 2014, 5, 132.	3.5	1
62	Plant Response to Stress: Microelectrode Voltage-Clamp Studies. , 2012, , 69-90.		0
63	Mitigation of copper toxicity by DNA oligomers in green paramecia. Plant Signaling and Behavior, 2015, 10, e1010919.	2.4	0
64	Biphasic activation of survival and death pathways in Arabidopsis thaliana cultured cells by sorbitol-induced hyperosmotic stress. Plant Science, 2021, 305, 110844.	3.6	0